

DKS
535001

E.L. 1/71 75-1083

Proposals and "Indicated"
Quartzite Ore (NOT Reserves)
- Cape Sorell, Western
Tasmania.

I. D. Picken

24.4.75

MICROFILMED

OPEN FILE

75-1083

**CONFIDENTIAL**

Ref		Date	24th April 1975
To	A. H. Bartlett	From	I. D. Picken
At	45 Exhibition Street	At	45 Exhibition Street
Copies	M. R. Rayner A. H. White G. Cranby K. L. S. Ford	Subject	Proposals and "Indicated" Quartzite Ore (NOT Reserves) - Cape Sorell, Western Tasmania.

Summary and Recommendations**CONFIDENTIAL**

1. Detailed plane table geological mapping and surface costean sample results have enabled the calculation of tonnage and grade of "Indicated" quartzite ore (NOT reserves) at Cape Sorell.
2. Two, one (1) tonne quartzite samples of different grades have been selected for experimental smelting.
3. Ten diamond drill holes totalling 755 metres are recommended to test surface outcrop information.

"Indicated" Quartzite Ore

It is necessary to remember that the grades and tonnages stated are based on limited surface information only. It will be necessary to test this somewhat limited surface information at depth with an extensive diamond drilling programme. Only after drilling can "Ore Reserves" be determined.

TONNAGE AND GRADETotal "Indicated" Quartzite Ore

2.78 million tonnes (by combining and weighing the average grades in the Mount Antill, Mount Obvious and North Escarpment Areas).

<u>Average Grade</u>	-	Al ₂ O ₃	0.34
		Fe ₂ O ₃	0.05
		CaO	<.01
		MgO	0.10
		Na ₂ O	0.09
		TiO ₂	0.02
		K ₂ O	0.08
		L.O.I.	0.18
		P ₂ O ₅	28 PPM.
		SiO ₂	99.13%

(by difference)

cont'd ... 2

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Areas considered for Inferred Quartzite Ore:

- (1) Mount Antill Area - 1.72 million tonnes (based on five ore blocks, each to a maximum of 30 metres below sea level)
Drawing Number TAS/CS/75/12.

Average Grade	-	Al_2O_3	0.46%
		Fe_2O_3	0.07
		CaO	<.01
		MgO	0.14
		Na_2O	0.12
		TiO_2	0.02
		K_2O	0.09
		L.O.I.	0.17
		P_2O_5	30 PPM.
		SiO_2	98.92%
		(by difference)	

- (2) North Escarpment Area - 0.80 million tonnes (based on three ore blocks - to a maximum of 30 metres below sea level where applicable).
Drawing Number TAS/CS/75/14

Average Grade	-	Al_2O_3	0.07
		Fe_2O_3	0.01
		CaO	<.01
		MgO	0.02
		Na_2O	0.06
		TiO_2	0.01
		K_2O	0.02
		L.O.I.	0.20
		P_2O_5	23 PPM.
		SiO_2	99.60%
		(by difference)	

cont'd ... 3

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- (3) Mount Obvious Area - 0.26 million tonnes (based on one ore block, to a maximum of 30 metres below sea level).
Drawing Number TAS/CS/75/13

Average Grade	-	Al_2O_3	0.52
		Fe_2O_3	0.05
		CaO	<.01
		MgO	0.13
		Na_2O	<.01
		TiO_2	0.02
		K_2O	0.16
		L.O.I.	0.18
		P_2O_5	33 PPM.
		SiO_2	98.92%
		(by difference)	

Analysis of surface costean samples in the Grandfathers Area shows that the grade of the "indicated" quartzite ore is not well suited for smelting into silicon metal - This quartzite may be suitable for the manufacture of Ferro-Silicon.

West Grandfathers: Average 85 samples

Al_2O_3	1.13%
Fe_2O_3	0.12%

East Grandfathers: Average 66 samples

Al_2O_3	1.63%
Fe_2O_3	0.23%

Total tonnage Indicated: 2.71 million tonnes in Grandfathers Area only.

TRIAL SMELTING SAMPLES

Two one (1) tonne quartzite samples have been collected and will be despatched to Comalco Japan KK, where arrangements for trial smelting into silicon metal have been made.

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Sample No. 1

Derived from the North Escarpment Area near costean B1 (Formal testing of what we believe to be suitable silicon grade quartzite ore).

Average Analysis:-	Al_2O_3	0.22%
	Fe_2O_3	0.04
	CaO	<.01
	MgO	0.04
	Na_2O	<.01
	TiO_2	0.02
	K_2O	0.01
	L.O.I.	0.17
	P_2O_5	36 PPM.
	SiO_2	99.44%
	(by difference)	

Sample No. 2

Derived from the Grandfathers Area - near costean C3.
(Testing of high alumina quartzite - for possible high aluminium-silicon metal alloy or ferro-silicon.)

Average Analysis:-	Al_2O_3	1.67%
	Fe_2O_3	0.15
	CaO	<.01
	MgO	0.16
	Na_2O	0.01
	TiO_2	0.11
	K_2O	0.24
	L.O.I.	0.30
	P_2O_5	42 PPM.
	SiO_2	97.34%
	(by difference)	

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004

Proposed Diamond Drilling

To raise the status of the "indicated" quartzite ore at Cape Sorell it will be necessary to test surface outcrop information at depth by diamond drilling.

It is recommended that a minimum of ten (10) diamond drill holes, estimated to total 755 metres of drilling, be completed in the four principal areas mapped in detail by plane table.

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Maps:

Tas/cs/75/12

/ / / 17,

/ - / 13,

/ / / 14,

/ / / 15

/ / / 18

535007

005

Inferred Quartzite Ore Calculations

Assume Specific Gravity
= 2.5 gm/cc

MOUNT ANTILL AREA:-

(contoured hill)

Costean: A1-A7

A. Western Mount Antill - Block No. 1

Contour Interval	Area 1 m ²	Area 2 m ²	Average Area m ²	Tonnage Available: Average Area X Thickness X S.G
60 - 55m	232.9	782.3	507.6	6,345 tonnes
55 - 50	782.3	1,394.9	1,088.6	13,608 "
50 - 45	1,394.9	1,924.1	1,659.5	20,744 "
45 - 40	1,924.1	2,554.4	2,239.2	27,990 "
40 - 35	2,554.4	3,086.1	2,820.3	35,254 "
35 - SL	(3,086.1	3,346.8	3,216.5	281,444 "
SL - -30m	((Average 35m contour & outcrop area)			241,238 "
<u>TOTAL:</u>				626,623 tonnes

B. Central Mount Antill - Block No. 2

(contoured hill)

Contour Interval	Area 1 m ²	Area 2 m ²	Average Area m ²	Tonnage Available Average Area X Thickness X S.G
58 - 55m	55.7	438.0	246.8	1,851 tonnes
55 - 50	438.0	1,334.2	886.1	11,076 "
50 - 45	1,334.2	1,840.5	1,587.3	19,842 "
45 - 40	1,840.5	2,397.5	2,119.0	26,487 "
40 - 35	2,397.5	3,225.3	2,811.4	35,142 "
35 - SL	(3,225.3	3,460.8	3,343.1	292,521 "
SL - -30m	((average 35m contour & outcrop area)			250,733 "
<u>TOTAL:</u>				637,651 tonnes

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C. Eastern Mount Antill - Block No. 3

(contoured hill)

Contour Interval	Area 1 m ²	Area 2 m ²	Average Area m ²	Tonnage Available Average Area X Thickness X S.G
50 - 45m	513.9	761.3	637.7	7,970 tonnes
45 - 40	761.3	1,275.2	1,018.2	12,728 "
40 - SL	(1,275.2	1,355.9	1,315.6	131,560 "
SL - -30m	((average 40m contour & outcrop area)			98,670 "
<u>TOTAL:</u>				<u>250,928 tonnes</u>

D. Mount Antill - Block No. 4

(contoured hill)

Contour Interval	Area 1 m ²	Area 2 m ²	Average Area m ²	Tonnage Available Average Area X Thickness X S.G
25 - 20m	524.1	891.1	707.6	8,845 tonnes
20 - SL	(891.1	926.6	908.9	45,445 "
SL - -30m	((average 20m contour & outcrop area)			68,167 "
<u>TOTAL:</u>				<u>122,457 tonnes</u>

E. Mount Antill - Block No. 5

(contoured hill)

Contour Interval	Area 1 m ²	Area 2 m ²	Average Area m ²	Tonnage Available Average Area X Thickness X S.G
25 - 20m	37.5	546.1	291.6	3,645 tonnes
20 - SL	(546.1	705.6	625.8	31,290 "
SL - -30m	((average 20m contour & outcrop area)			46,935 "
<u>TOTAL:</u>				<u>81,870 tonnes</u>

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F. Mount Obvious Area - Block No. 1

Costean: D1-D3

(contoured hill)

Contour Interval	Area 1 m ²	Area 2 m ²	Average Area m ²	Tonnage Available Average Area X Thickness X S.G
35 - 30m	382.3	893.7	638.5	7,981 tonnes
30 - 25m	893.7	1,321.5	1,107.3	13,842 "
25 - 20m	1,321.5	1,668.4	1,494.4	18,680 "
20 - SL	(1,668.4	1,769.6	1,719.0	85,949 "
SL - -30m	((average 20m contour & outcrop area)			128,924 "

TOTAL 255,376 tonnes

G. North Escarpment Area - Block No. 1

Costean: B1-B5

Body: Pitching Syncline:-

Strike length: 130m

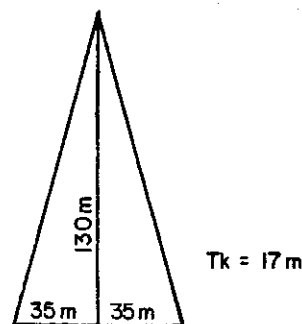
Thickness: 17m

Limb length: 35m each

Thus tonnage of ore:-

$$130 \times (35 + 35) \times 17 \times 2.5 \div 2$$

$$= \underline{193,375 \text{ tonnes}}$$

H. North Escarpment Area - Block No. 2

Body: Pitching block

Strike length: 20m

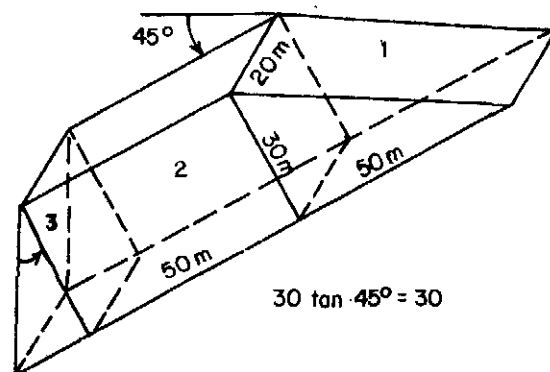
Thickness: 30m

Dip length: 100m

Part (1)

$$\text{Tonnage} = 50 \times 30 \times 20 \times 2.5 \div 2$$

$$= 37,500 \text{ tonnes}$$



$$30 \tan 45^\circ = 30$$

cont'd ... 9

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Part (2)

$$\begin{aligned}\text{Tonnage} &= 50 \times 30 \times 20 \times 2.5 \\ &= 75,000 \text{ tonnes}\end{aligned}$$

Part (3)

$$\begin{aligned}\text{Tonnage} &= 30 \times 30 \times 20 \times 2.5 \div 2 \\ &= 22,500 \text{ tonnes}\end{aligned}$$

TOTAL ORE: 135,000 tonnesI. North Escarpment Area - Block No. 3

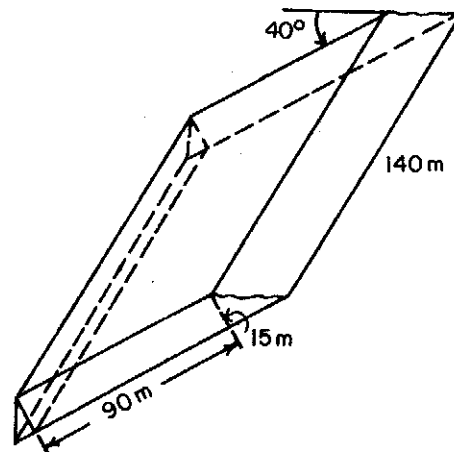
Body: Pitching block

Strike length: 140m

Thickness: 15m

Dip length: 90m (say)

$$\begin{aligned}\text{Tonnage of Ore} &= 140 \times 90 \times 15 \times 2.5 \\ &= 472,500 \text{ tonnes}\end{aligned}$$

J. Grandfathers Area - Block No. 1

Drawing No. TAS/CS/75/15

Western Grandfathers:-

Costean, C1-C5

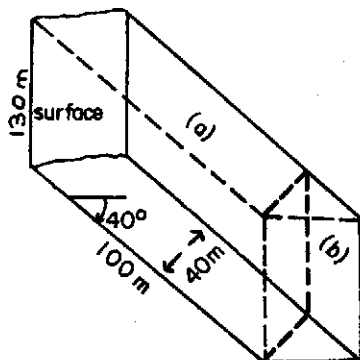
Body: Inclined block

Width: 40 metres

Dip length: 100m (to say - 30 metres)

Strike: 130 metres

$$\begin{aligned}\text{Tonnage} &= (a) 100 \times 130 \times 40 \times 2.5 &= 1,300,000 \text{ tonnes} \\ &= (b) 47.67 \times 130 \times 40 \times 2.5 \div 2 &= 309,855 \text{ tonnes} \\ &\quad (40 \div \tan 40) &\end{aligned}$$

TOTAL: 1,609,855 tonnes

cont'd ... 10

K. Grandfathers Area - Block No. 2- Eastern Grandfathers -

Body: Inclined block

Costean: C6-C7

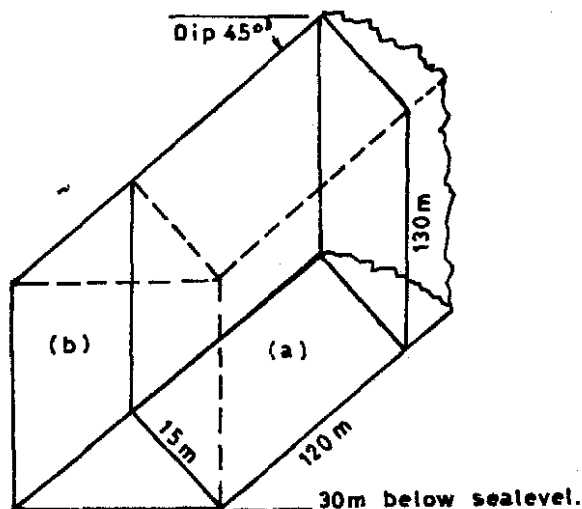
Width: 15 metres

Dip Length: 120 metres (to say -30 metres)

Strike: 130 metres

Tonnage:- (a) $130 \times 120 \times 15 \times 2.5 = 585,000$ tonnes(b) $15 \times 130 \times 15 \times 2.5 \div 2 = 36,562$ tonnes

TOTAL: 621,562 tonnes

L. Grandfathers Area - Block No. 3- West Grandfathers - south

Body: Inclined block

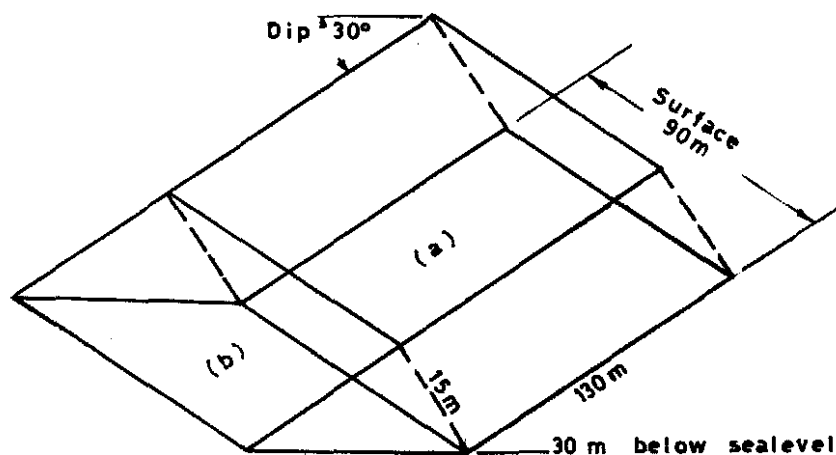
Width: 15m

Dip length: 130 metres (say to -30m)

Strike: - 90 metres

Tonnage:- (a) $130 \times 90 \times 15 \times 2.5 = 438,750$ tonnes(b) $90 \times 15 \times (15 \div \tan 30) \times 2.5 \div 2 = 43,842$ tonnes

TOTAL: 482,592 tonnes



5 cm



A diagram of a path consisting of several segments. The segments are labeled with their lengths: 8m, 20m, 24m, 29m, 33m, 39m, and 46m. A dashed line connects the start and end points of the path, labeled 5m.

Plan

45m 29m 28m 26m 24m 20m 8m 0m

75° (approx.) 75° (approx.)

75° (approx.)

Mostly medium with minor iron

Mostly medium - coarse grained, very light grey (N8)
with minor iron staining moderate brown (5YR 5/6)

Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed by AMDEL
Frewville, S.A. By difference

Interval	Ca O	Al ₂ O ₃	Fe ₂ O ₃	Mg O	Na ₂ O	Ti O ₂	P ₂ O ₅	K ₂ O	LOI	S i O ₂	Cr ₂ O ₃	
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01				
0 - 1	0.009	0.365	0.019	0.011	0.214	0.006	0.001	0.092	0.01			
0 - 1 a	0.010	0.310	0.024	0.010	0.010	0.018	0.0023	0.070	0.18	99.40	0.001	
0 - 1 b		0.264	0.060									
1 - 2	0.005	0.470	0.017	0.010	0.217	0.005		0.106				
2 - 3	0.005	0.246	0.012	0.048	0.178	0.009		0.054				
3 - 4	0.005	0.164	0.019	0.032	0.199	0.005		0.032				
4 - 5	0.005	0.272	0.014	0.016	0.153	0.005	0.001	0.071	0.14			
4 - 5 a	0.010	0.260	0.022	0.010	0.010	0.018	0.0028	0.050	0.14	99.51	0.001	
4 - 5 b		0.246	0.077									
5 - 6		NO		SAMPLE								
6 - 7		NO		SAMPLE								
7 - 8		NO		SAMPLE								
8 - 9	0.005	0.253	0.026	0.024	0.168	0.005		0.056				
9 - 10	0.005	0.616	0.040	0.032	0.187	0.011	0.002	0.140	0.54			
9 - 10 a	0.010	0.380	0.058	0.010	0.010	0.024	0.0026	0.100	0.20	99.24	0.001	
9 - 10 b		0.321	0.077									
10 - 11	0.005	0.631	0.015	0.037	0.187	0.009		0.137				
11 - 12	0.005	0.320	0.037	0.039	0.005	0.005		0.071				
12 - 13	0.005	0.459	0.099	0.109	0.005	0.006		0.043				
13 - 14	0.006	0.394	0.056	0.039	0.154	0.009		0.083				
14 - 15	0.005	0.152	0.022	0.030	0.183	0.005	0.003	0.035	0.09			
14 - 15 a	0.010	0.280	0.023	0.010	0.010	0.018	0.0019	0.050	0.17	99.46	0.001	
14 - 15 b		0.208	0.084									
15 - 16	0.005	0.282	0.032	0.049	0.197	0.018		0.052				
16 - 17	0.005	0.437	0.057	0.097	0.198	0.013		0.072				
17 - 18	0.005	0.506	0.023	0.032	0.183	0.006		0.031				
18 - 19	0.005	0.320	0.023	0.043	0.173	0.006		0.079				
19 - 20	0.005	0.248	0.021	0.036	0.167	0.005	0.003	0.062	0.09			
19 - 20 a	0.010	0.220	0.024	0.010	0.010	0.025	0.0047	0.040	0.37	99.32	0.001	
19 - 20 b		0.189	0.081									
20 - 21	0.005	0.155	0.010	0.017	0.184	0.005		0.035				
21 - 22	0.005	0.499	0.023	0.019	0.179	0.005		0.047				
22 - 23	0.005	0.100	0.025	0.036	0.181	0.005		0.021				
23 - 24	0.005	0.124	0.026	0.038	0.181	0.005		0.026				
24 - 25	0.005	0.093	0.016	0.020	0.139	0.005	0.003	0.044	0.08			
24 - 25 a	0.010	0.190	0.016	0.010	0.010	0.010	0.0041	0.030	0.13	99.62	0.001	
24 - 25 b		0.132	0.058									
25 - 26	0.005	0.784	0.016	0.007	0.152	0.005		0.097				
26 - 27	0.005	0.150	0.010	0.005	0.175	0.005		0.039				
27 - 28	0.005	0.207	0.016	0.015	0.175	0.006		0.056				
28 - 29	0.005	0.133	0.020	0.005	0.150	0.005		0.049				
29 - 30	0.005	0.392	0.018	0.019	0.120	0.005	0.003	0.124	0.07			
29 - 30 a	0.010	0.300	0.019	0.010	0.010	0.015	0.0062	0.070	0.12	99.48	0.001	
29 - 30 b		0.265	0.058									
30 - 31	0.005	0.389	0.037	0.032	0.172	0.005		0.090				
31 - 32	0.005	0.308	0.023	0.026	0.163	0.005		0.066				
32 - 33	0.005	0.547	0.016	0.027	0.160	0.005		0.119				
33 - 34	0.005	0.360	0.024	0.030	0.180	0.005		0.081				
34 - 35	0.005	0.533	0.024	0.042	0.165	0.005	0.002	0.126	0.08			
34 - 35 a	0.010	0.220	0.028	0.010	0.010	0.013	0.0028	0.040	0.12	99.58	0.001	
34 - 35 b		0.208	0.084									
35 - 36	0.005	0.348	0.030	0.022	0.135	0.005		0.088				
36 - 37	0.005	0.411	0.123	0.025	0.173	0.005		0.092				
37 - 38	0.005	0.401	0.025	0.005	0.107	0.005		0.049				
38 - 39	0.005	0.726	0.047	0.029	0.159	0.005		0.108				
39 - 40	0.005	0.298	0.026	0.024	0.165	0.005	0.002	0.076	0.09			
39 - 40 a	0.010	0.370	0.029	0.010	0.010	0.025	0.0055	0.100	0.15	99.33	0.001	
39 - 40 b		0.302	0.089									
40 - 41		NO		SAMPLE								
41 - 42	0.005	0.282	0.042	0.075	0.194	0.005		0.033				
42 - 43	0.005	0.246	0.020	0.031	0.193	0.005		0.072				
43 - 44	0.005	0.411	0.016	0.023	0.171	0.005		0.099				
44 - 45	0.005	0.805	0.024	0.026	0.175	0.005	0.003	0.211	0.13			
44 - 45 a	0.010	0.570	0.035	0.030	0.010	0.034	0.0035	0.140	0.20	99.00	0.001	
44 - 45 b		0.265	0.064									

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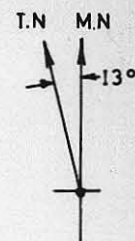
CAPE SORELL—SILICA . TASMANIA.

535013

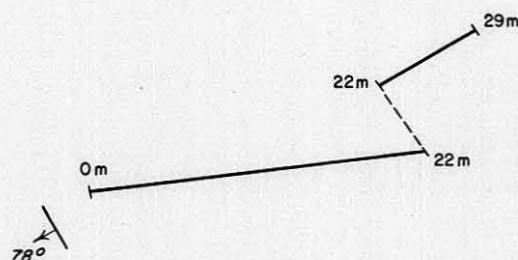
Costean:- A-2
Area :- Mt. Antill
Scale :- 1:500

5 cm

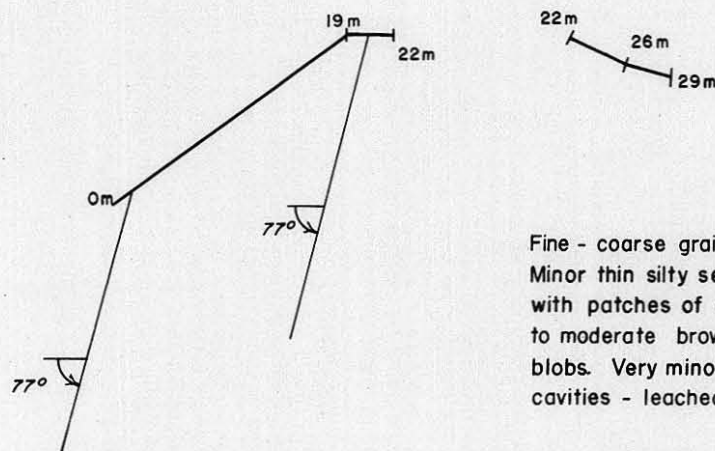
Note: LOI and P₂O₅ values determined by normal chemical methods
Colour code (N8)etc.) based on "Rock Colour Chart" distributed by the Geological Society of America



Plan



Section with apparent dips indicated along ϕ of each Costean

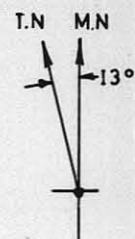
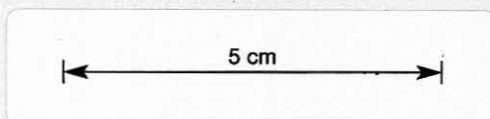


Fine - coarse grained, thin to thickly bedded quartzite. Minor thin silty sections, generally very light grey (N8) with patches of dark greenish grey (5GY 4/1). Light to moderate brown (5YR 4/4 - 5YR 5/6) iron staining in blobs. Very minor rutile on joint planes. Some gossanous cavities - leached pyrite?

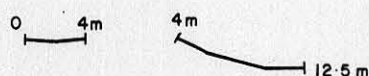
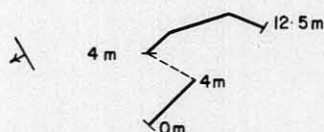
Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed by AMDEL Frewville, S.A.

Interval	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	Mg O	Na ₂ O	T ₁ O ₂	P ₂ O ₅	K ₂ O	LOI	Si O ₂	Cr ₂ O ₃	By difference
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01				
0 - 1	< 0.005	1.214	0.026	0.036	0.176	0.009	0.004	0.165	.16			
0 - 1 a	< 0.010	0.380	0.022	< 0.010	< 0.010	0.016	0.0034	0.110	.16	99.31	< 0.001	
0 - 1 b		.302	.062									
1 - 2	< 0.005	1.827	0.036	0.063	0.192	0.072		0.426				
2 - 3	< 0.005	0.592	0.019	0.039	0.175	< 0.005		0.127				
3 - 4	< 0.005	0.581	0.030	0.036	0.189	0.009		0.142				
4 - 5	< 0.005	2.226	0.036	0.098	0.186	0.027	0.002	0.491	.22			
4 - 5 a	< 0.010	0.850	0.026	0.030	< 0.010	0.035	0.0030	0.250	.27	98.54	< 0.001	
4 - 5 b		.567	.051									
5 - 6	< 0.005		0.072	0.133	0.190	0.228		0.712				
6 - 7	< 0.005	0.734	0.050	0.031	0.162	< 0.005		0.162				
7 - 8	< 0.005	0.344	0.016	0.043	0.165	< 0.005		0.088				
8 - 9	< 0.005	0.291	0.021	0.040	0.167	< 0.005		0.066				
9 - 10	< 0.005	0.229	0.054	0.023	0.140	< 0.005	0.003	0.075	.15			
9 - 10 a	< 0.010	0.360	0.120	0.010	< 0.010	0.015	0.0041	0.090	.20	99.28	< 0.001	
9 - 10 b		.208	.104									
10 - 11	< 0.005	0.420	0.016	0.026	0.151	< 0.005		0.111				
11 - 12	< 0.005	0.339	0.020	0.033	0.136	< 0.005		0.105				
12 - 13	< 0.005	0.313	0.017	0.045	0.158	< 0.005		0.068				
13 - 14	< 0.005	0.293	0.045	0.035	0.144	< 0.005		0.068				
14 - 15	< 0.005	0.181	0.037	0.026	0.169	0.023	0.002	0.056	.17			
14 - 15 a	< 0.010	0.210	0.022	< 0.010	< 0.010	0.010	0.0024	0.040	.20	99.20	< 0.001	
14 - 15 b		.170	.061									
15 - 16	< 0.005	0.262	0.026	0.056	0.160	< 0.005		0.072				
16 - 17	< 0.005	0.236	0.012	0.040	0.168	< 0.005		0.066				
17 - 18	< 0.005	0.363	0.017	0.045	0.159	< 0.005		0.110				
18 - 19	< 0.005	0.504	0.043	0.031	0.158	< 0.005		0.125				
19 - 20	0.007	0.497	0.433	0.120	0.140	< 0.005	0.003	0.114	.06			
19 - 20 a	< 0.010	0.360	0.150	0.040	< 0.010	0.018	0.0026	0.080	.26	99.09	< 0.001	
19 - 20 b		.302	.204									
20 - 21	< 0.005	0.310	0.022	0.042	0.171	< 0.005		0.089				
21 - 22	< 0.005	0.246	0.016	0.043	0.166	< 0.005		0.059				
22 - 23	0.005	0.315	1.382	0.415	0.176	< 0.005		0.067				
23 - 24	0.005	0.640	0.214	0.092	0.176	0.030		0.141				
24 - 25	< 0.005	0.167	0.204	0.048	0.145	< 0.005	0.003	0.054	.24			
24 - 25 a	< 0.010	0.350	0.740	0.250	< 0.010	0.022	0.0023	0.070	.59	98.00	< 0.001	
24 - 25 b		.283	.436									
25 - 26	< 0.005	0.485	0.429	0.149	0.178	< 0.005		0.120				
26 - 27	< 0.005	0.671	0.043	0.037	0.175	0.011		0.173				
27 - 28	0.009	0.643	0.059	0.027	0.116	0.016		0.186				
28 - 29	< 0.005	0.772	0.299	0.098	0.148	0.013	0.004	0.194	.27			

Note: LOI and P2O5 values determined by normal chemical methods
Colour code (N8) etc.) based on "Rock Colour chart" distributed by the Geological Society of America



Plan

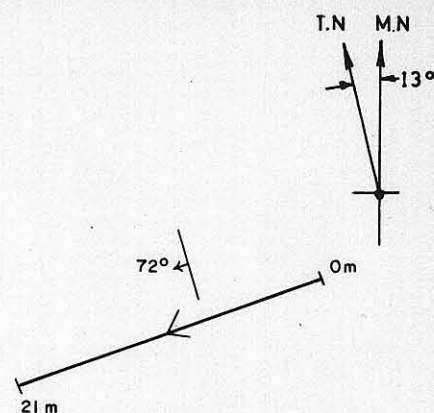


Section with apparent
dips indicated along
C of each Costean

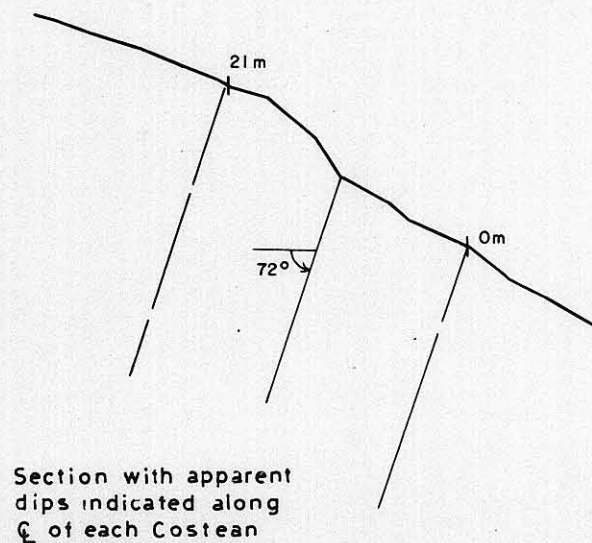
Fine - medium, very light grey (N8) with moderate brown (5YR 5/6) iron staining in places leaching into quartzite. Minor, fine grained, very dark grey quartzite and secondary quartz veining

Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed by AMDEL, Frewville, S.A. By difference

Interval	CaO	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O	LOI	SiO ₂	Cr ₂ O ₃
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01			
0 - 1	< 0.005	0.470	0.223	0.153	0.153	0.011	0.004	0.063			
0 - 1 a	< 0.010	0.380	0.120	0.080	< 0.010	0.022	0.0036	0.050	. 20	99.15	< 0.001
0 - 1 b		. 226	. 190								
1 - 2	< 0.005	0.738	0.913	0.437	0.157	0.020	< 0.001	0.025	. 21		
2 - 3	< 0.005	0.382	0.470	0.236	0.167	< 0.005		0.006			
3 - 4	< 0.005	0.401	0.097	0.043	0.140	< 0.005		0.069			
4 - 5	< 0.005	0.284	0.173	0.116	0.159	< 0.005		0.042			
4 - 5 a	< 0.010	0.280	0.250	0.080	< 0.010	0.012	0.0056	0.030	. 21	99.14	< 0.001
4 - 5 b		. 246	. 131								
5 - 6	< 0.005	0.600	0.571	0.457	0.146	0.011		0.043			
6 - 7	< 0.005	0.449	0.915	0.486	0.176	0.009		0.061			
7 - 8	< 0.005	0.425	0.564	0.341	0.153	0.006	< 0.001	0.058	. 32		
8 - 9	0.007	0.468	0.363	0.290	0.144	0.006		0.049			
9 - 10	0.030	0.413	0.551	0.438	0.157	< 0.005		< 0.005			
9 - 10 a	< 0.010	0.250	0.740	0.390	< 0.010	0.018	0.0013	< 0.010	. 58	98.00	< 0.001
9 - 10 b		. 302	. 462								
10 - 11	< 0.005	0.437	0.035	0.044	0.153	< 0.005		0.094			
11 - 12	< 0.005	0.162	0.024	0.020	0.144	< 0.005		0.042			
12 - 13	< 0.005	0.102	0.064	0.022	0.124	< 0.005	0.002	0.014	. 10		

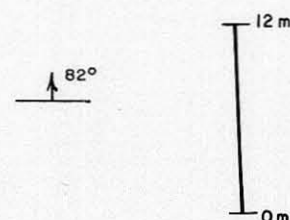
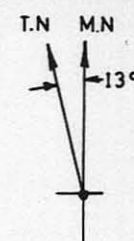


Plan



Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed by AMDEL.

By difference												
Interval	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	Mg O	Na ₂ O	T ₁ O ₂	P ₂ O ₅	K ₂ O	LO ₁	S ₁ O ₂	Cr ₂ O ₃	
Limit of Detection	0.005	0.013	0.005	0.011		0.007	0.02	0.01				
0 - 1	0.029	1.370	0.083	0.055	0.852	0.077	0.010	0.322				
0 - 1a	< .01	0.79	0.036	0.03	< .01	0.042	0.0038	0.20	0.22	98.7	< .001	
0 - 1b		0.51	0.070									
1 - 2	0.006	0.316	0.108	0.101	0.593	0.011	0.001	0.032				
2 - 3	0.009	0.342	0.038	0.015	0.546	0.018	0.013	0.054				
3 - 4	0.014	0.246	0.045	0.012	0.407	0.084	0.002	0.036				
4 - 5	< .001	0.057	0.023	< .001	0.179	0.025	< .001	0.010				
4 - 5 a	< .01	0.05	0.017	< .01	< .01	0.012	0.0019	0.01	0.11	99.8	< .001	
4 - 5 b		0.08	0.075									
5 - 6	0.005	0.137	0.031	0.023	0.300	0.023	0.007	0.018				
6 - 7	0.006	0.041	0.022	< .001	0.236	0.009	< .001	0.003				
7 - 8	< .001	0.166	0.036	0.013	0.201	0.030	0.009	0.034				
8 - 9	< .001	0.144	0.026	< .001	0.192	0.016	< .001	0.036				
9 - 10	< .001	0.281	0.167	0.093	0.130	0.018	0.007	0.027				
9 - 10 a	< .01	0.16	0.064	0.02	< .01	0.014	0.0033	0.02	0.12	99.6	< .001	
9 - 10 b		0.15	0.08									
10 - 11	< .001	0.191	0.039	0.033	0.080	0.006	0.004	0.045				
11 - 12	< .001	0.144	0.094	0.015	0.086	0.009	0.004	0.039				
12 - 13	< .001	0.128	0.029	0.010	0.053	0.009	0.007	0.021				
13 - 14	< .001	0.354	0.057	0.063	0.119	0.013	0.004	0.061				
14 - 15	< .001	0.211	0.025	0.023	0.057	0.009	0.002	0.041				
14 - 15 a	< .01	0.21	0.13	0.08	< .01	0.018	0.0033	0.01	0.15	99.4	< .001	
14 - 15 b		0.16	0.086									
15 - 16	< .001	0.287	0.026	0.011	0.075	0.025	0.004	0.048				
16 - 17	< .001	0.396	0.134	0.137	0.050	0.032	0.005	0.001				
17 - 18	< .001	0.428	0.100	0.077	0.045	0.042	0.014	0.088				
18 - 19	< .001	0.399	0.078	0.024	0.089	0.027	0.004	0.045				
19 - 20	< .001	0.236	0.042	0.032	0.015	0.030	0.009	0.034				
19 - 20 a	< .01	0.35	0.038	0.01	< .01	0.042	0.0028	0.05	0.11	99.41	< .001	
19 - 20 b		0.38	0.17									
20 - 21	< .001	0.326	0.085	0.001	0.063	0.037	0.005	0.071				
			</									



Plan

apparent
along
steep

A diagram showing a cross-section of a hill. The ground surface is a solid line. Two vertical dashed lines are drawn at 0m and 12m horizontal distances. A solid line representing a geological boundary dips from the 0m line to the 12m line. The dip angle is labeled as 32°.

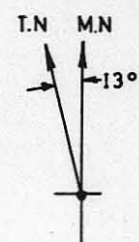
By difference

[illegible]

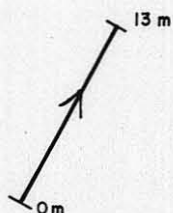
CAPE SORELL—SILICA . TASMANIA.

Costean:- A6 & A7
Area :- Mt. Antill
Scale :- 1:500

5 cm



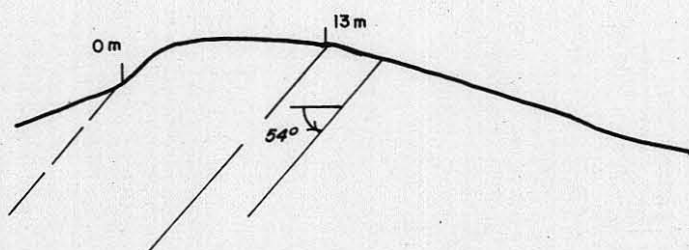
Section A6



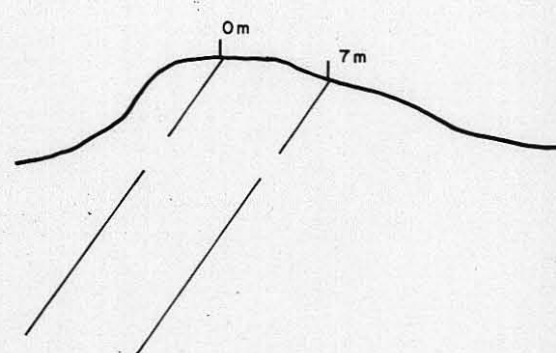
Section A7



Plan



Section with apparent
dips indicated along
line of each Costean



Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney, by XRF. Samples marked 'b' were analysed by

AMDEL

By difference

Interval	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O	LOI	S ₁ O ₂		
Limit of Detection	0.005	0.013	0.005	0.011		0.007	0.02	0.01				
A6												
0 - 1	< .001	0.457	0.052	0.028	0.010	0.009	0.010	0.143				
0 - 1 a	< .01	0.31	0.023	< .01	< .01	0.020	0.0033	0.09	0.16	99.39	< .001	
0 - 1 b		0.35	0.08									
1 - 2	< .001	0.370	0.041	0.040	0.012	0.013	0.001	0.110				
2 - 3	< .001	0.409	0.145	0.034	0.010	0.004	< .001	0.109				
3 - 4	< .001	0.211	0.041	0.014	< .001	0.004	0.002	0.057				
4 - 5	< .001	0.536	0.042	0.016	0.039	0.002	< .001	0.084				
4 - 5 a	< .01	0.18	0.018	< .01	< .01	0.012	0.0020	0.03	0.08	99.68	< .001	
4 - 5 b		0.16	0.09									
5 - 6	< .001	0.303	0.044	0.020	< .001	0.011	< .001	0.110				
6 - 7	< .001	0.239	0.084	0.021	< .001	0.009	< .001	0.069				
7 - 8	0.021	0.469	0.038	0.035	0.220	0.009	0.004	0.103				
8 - 9	0.009	0.441	0.064	0.025	0.112	0.013	< .001	0.135				
9 - 10	0.014	0.345	0.042	0.015	0.136	0.009	< .001	0.113				
9 - 10 a	< .01	0.30	0.028	< .01	< .01	0.016	0.0032	0.06	0.11	99.48	< .001	
9 - 10 b		0.24	0.05									
10 - 11	0.001	0.329	0.059	0.044	0.086	0.006	< .001	0.094				
11 - 12	< .001	0.281	0.049	0.023	< .001	0.013	< .001	0.083				
12 - 13	< .001	0.204	0.049	0.021	< .001	0.009	0.013	0.067				
A7												
0 - 1	0.095	0.425	0.232	0.147	0.487	0.016	0.001	0.043				
0 - 1 a	< .01	0.09	0.033	0.01	< .01	0.011	0.0020	< .01	0.16	99.67	< .001	
0 - 1 b		0.11	0.08									
1 - 2	0.008	0.316	0.241	0.120	0.121	0.013	< .001	0.015				
2 - 3	< .001	0.175	0.211	0.082	0.021	0.009	0.002	0.027				
3 - 4	< .001	0.284	0.325	0.211	< .001	0.009	< .001	0.023				
4 - 5	< .001	0.428	0.112	0.040	< .001	0.004	< .001	0.097				
4 - 5 a	< .01	0.11	0.035	< .01	< .01	0.024	0.0009	0.01	0.02	99.70	< .001	
4 - 5 b		0.22	0.105									
5 - 6	< .001	0.508	0.275	0.163	< .001	0.006	0.002	0.066				
6 - 7	< .001	0.306	0.168	0.134	0.028	0.009	0.005	0.030				
6 - 7 a	< .01	0.15	0.140	0.08	< .01	0.011	0.0020	< .01	0.20	99.42	< .001	

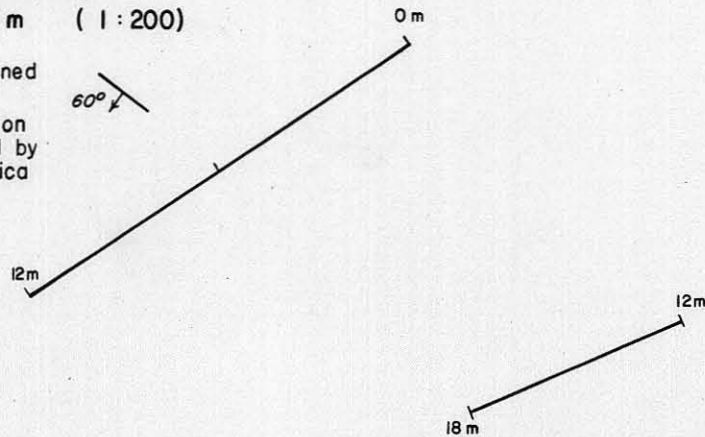
006

CAPE SORELL—SILICA . TASMANIA.

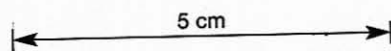
535018

Costean:- B1
Area :- North Escarpment
Scale :- 1 cm = 2 m (1:200)

Note: LOI and P₂O₅ values determined by normal chemical methods
Colour code (IN8) etc.) based on "Rock Colour Chart" distributed by the Geological Society of America

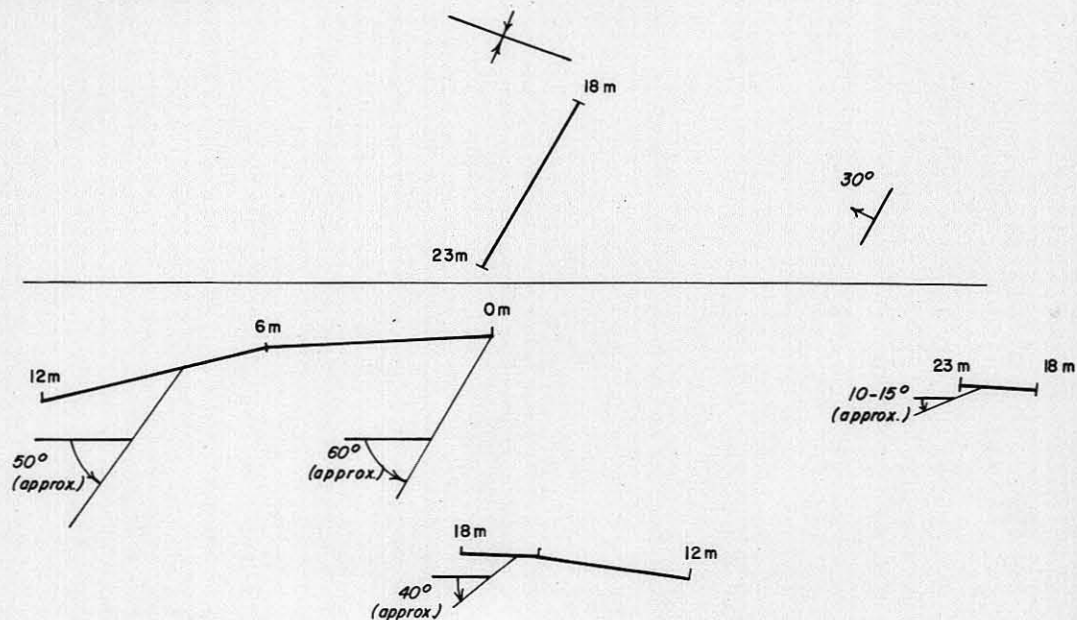


Plan



Medium to fine grained, very light grey (N8) quartzite - blocky, smooth surface appearance. Limb of synclinal structure.

Section with apparent dips indicated along C of each Costean



Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed by AMDEL, Frewville S.A.

Interval	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O	LOI	SiO ₂	Cr ₂ O ₃	By difference
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01				
0 - 1	< .005	0.019	< .005	< .005	< .005	0.008		0.014				
0 - 1a	< .010	0.030	0.009	< .010	< .015	0.015	.0019	0.010	0.07	99.86	< .001	
0 - 1b	.039	.094	.042	.049								
1 - 2	< .005	0.015	< .005	< .005	< .005	< .005		0.021				
2 - 3	< .005	0.086	0.005	< .005	< .005	0.010	.0025	0.051	0.12			
3 - 4	< .005	0.008	< .005	< .005	< .005	< .005		0.024				
4 - 5	< .005	0.099	0.043	0.206	< .005	< .005		0.008				
4 - 5a	< .010	0.030	0.009	< .010	< .010	0.015	.0023	< .010	0.12	99.42	< .001	
4 - 5b	-	.066	.042	.082								
5 - 6	< .005	0.008	< .005	0.008	< .005	< .005		0.018				
6 - 7	< .005	0.042	< .005	< .005	< .005	< .005		0.018				
7 - 8	< .005	0.035	< .005	0.005	< .005	< .005	.002	0.027	0.10			
8 - 9	< .005	< .005	< .005	< .005	< .005	< .005		0.094				
9 - 10	< .005	< .005	< .005	0.009	< .005	< .005		0.090				
9 - 10a	< .010	0.010	0.011	< .010	< .010	0.027	.0022	< .010	0.06	99.89	< .001	
9 - 10b	-	.047	.042	.033								
10 - 11	< .005	< .005	0.006	< .005	< .005	< .005		0.082				
11 - 12	< .005	< .005	< .005	< .005	< .005	< .005		0.111				
12 - 13	< .005	0.173	0.009	0.006	< .005	< .005	.0025	0.107	0.14			
13 - 14	< .005	0.008	< .005	< .005	< .005	< .005		0.030				
14 - 15	< .005	0.151	< .005	0.017	< .005	0.006		0.075				
14 - 15a	< .010	0.120	0.016	< .010	< .010	0.015	.0017	0.020	0.20	99.61	< .001	
14 - 15b	-	.151	.042	.041								
15 - 16	< .005	< .005	< .005	0.011	< .005	0.008		0.025				
16 - 17	< .005	0.042	0.019	0.069	< .005	0.008		0.030				
17 - 18	< .005	0.017	< .005	< .005	< .005	< .005	.002	0.030	0.16			
18 - 19	< .005	< .005	< .005	0.007	< .005	< .005		0.012				
19 - 20	< .005	< .005	< .005	0.005	< .005	< .005		0.006				
19 - 20a	< .010	0.020	0.010	< .010	< .010	0.011	.0061	< .01	0.14	99.81	< .001	
19 - 20b	.039	.038	.042	.033								
20 - 21	< .005	< .005	< .005	< .005	< .005	< .005		0.019				
21 - 22	< .005	0.088	< .005	< .005	< .005	< .005		0.020				
22 - 23	< .005	< .005	< .005	0.013	< .005	0.006	< .001	0.012	0.15			

007

CAPE SORELL—SILICA . TASMANIA.

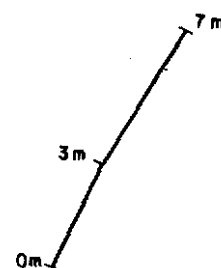
535019

Costean:- B2
 Area :- North Escarpment
 Scale :- 1cm = 2m (1:200)

5 cm



Note: LOI and P2O5 values were determined by normal chemical methods
 Colour code based on "Rock Colour Chart" distributed by the Geological Society of America



Plan

Section with apparent
 dips indicated along
 C of each Costean



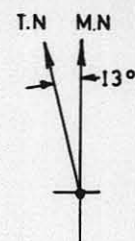
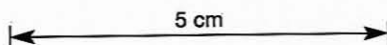
Fine to medium grained very light grey (NB) quartzite. Fractured - bedding not clear.
 Suspect faulted axes of anticlinal structure

Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney, by XRF. Samples marked b were analysed by AMDEL, Frewville S.A. By difference

Interval	CaO	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O	LOI	SiO ₂	Cr ₂ O ₃
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01			
0 - 1	<0.005	<0.005	<0.005	0.007	<0.005	0.013		0.013			
0 - 1 a	<0.010	0.010	0.010	<0.010	<0.010	0.022	0.0011	<0.010	.7	99.79	<0.001
0 - 1 b	-	.019	.042	.033							
1 - 2			NO	SAMPLE							
2 - 3	<0.005	0.151	0.031	0.073	<0.005	0.019		0.061			
3 - 4	<0.005	0.269	0.012	0.090	<0.005	0.010		0.062			
4 - 5	<0.005	0.153	0.012	0.047	<0.005	<0.005		0.035			
4 - 5 a	<0.010	0.230	0.016	0.040	<0.010	0.013	0.0009	0.010	.23	99.46	<0.001
4 - 5 b	.039	.151	.042	.049							
5 - 6	<0.005	0.017	<0.005	0.027	<0.005	0.028		0.020			
6 - 7	<0.005	0.033	0.008	0.027	<0.005	0.028		0.009			

Costean:- B3
Area :- Nth. Escarpment
Scale :- 1 : 500

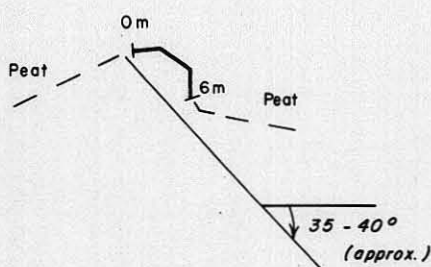
Note: LOI and P₂O₅ values determined by normal chemical methods
Colour code ((N8) etc.) based on "Rock Colour Chart" distributed by the Geological Society of America



A diagram of a beam segment, represented by a diagonal line with arrows at both ends. The length of the segment is labeled as 6 m.

Plan

Section with apparent
dips indicated along
C of each Costean



Generally very light grey, (N8), fine grained with dark yellowish orange (10 YR 6/6) iron staining

Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed by AMDEL, Frewville, S.A. By difference

[illegible]

009

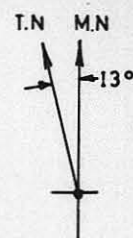
Costean:- B4 - B5
Area :- Nth. Escarpment
Scale :- 1 : 500

CAPE SORELL—SILICA . TASMANIA.

535021

Note: LOI and P₂O₅ values determined by normal chemical methods
Colour code (N8 etc.) based on "Rock Colour Chart" distributed by the Geological Society of America

5 cm



6m
B5

9m
B4
37°

Plan

Section with apparent dips indicated along C of each Costean

B4
9m
B5
6m

B4: Medium - coarse grained, very light grey (N8) quartzite. In some places - friable. Minor yellowish grey (5Y 7/2) joint staining.

B5: Fine - medium grained, very light grey (N8) quartzite with moderate yellowish brown (10YR 5/4) staining on joints

Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed AMDEL Frewville, S.A.

Interval	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	Mg O	Na ₂ O	T ₁ O ₂	P ₂ O ₅	K ₂ O	LOI	Si O ₂	Cr ₂ O ₃	By difference
Limit of Detection	0.005	0.013	0.005	0.011		0.007	0.02	0.01				
B4												
0 - 1	< .005	< .005	0.008	0.049	0.151	0.011	< .001	< .005	.11			
0 - 1a	< .010	0.010	0.013	< .010	< .010	0.019	0.0019	< .010	.13	99.83	< .001	
0 - 1b		.038	.042									
1 - 2	< .005	0.006	0.017	0.021	0.125	0.011		< .005				
2 - 3	< .005	0.052	0.016	0.015	0.133	0.006		< .005				
3 - 4	< .005	0.066	0.015	0.025	0.145	< .005	< .001	0.006	.54			
4 - 5	< .005	< .005	0.014	0.007	0.144	< .005		< .005				
4 - 5 a	< .010	0.040	0.008	< .010	< .010	0.010	0.0025	< .010	.16	99.78	< .001	
4 - 5 b		.047	.070									
5 - 6	< .005	0.052	0.007	0.007	0.168	< .005		< .005				
6 - 7	< .005	0.014	0.023	0.008	0.137	< .005		< .005				
7 - 8	< .005	0.035	0.016	0.087	0.157	< .005		0.011				
7 - 8 a	< .010	0.040	0.012	< .010	< .010	0.015	0.0023	< .010	.11	99.82	< .001	
7 - 8 b		.047	.101									
8 - 9	< .005	0.045	0.017	0.006	0.142	< .005	< .001	< .005	.09			
B5												
0 - 1	< .005	0.145	0.012	0.021	0.170	0.006	0.001	0.010	.11			
0 - 1a	< .010	0.100	0.020	< .010	< .010	0.040	0.0026	< .010	.08	99.75	< .001	
0 - 1b		.057	.048									
1 - 2	< .005	0.162	0.009	0.015	0.125	0.009		0.008				
2 - 3	< .005	0.308	0.011	0.024	0.125	< .005		0.043				
3 - 4	< .005	0.023	0.012	< .005	0.148	< .005		0.005				
4 - 5	< .005	< .005	0.012	< .005	0.135	< .005		< .005				
4 - 5 a	< .010	< .010	0.014	< .010	< .010	0.016	0.0011	< .010	.10	99.87	< .001	
4 - 5 b		.028	.054									
5 - 6	< .005	< .005	0.008	0.019	0.145	< .005	< .001	< .005				

010

Costean:- CI

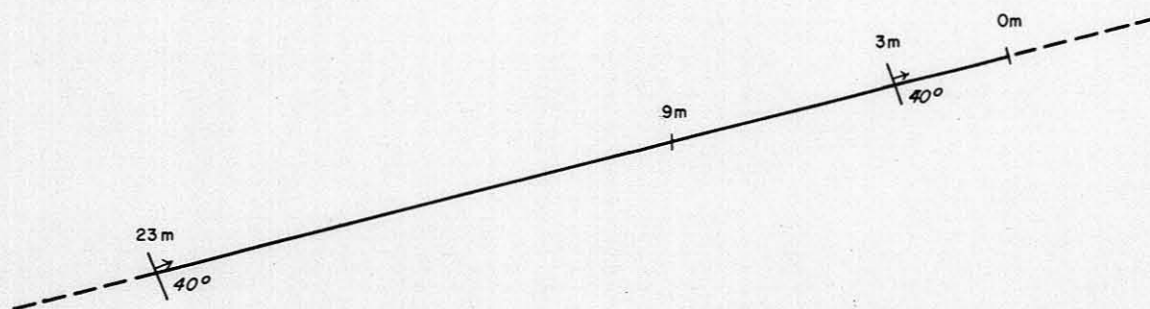
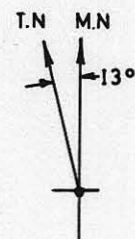
Area :- West Grandfathers

Scale :- 1 cm = 2m (1:200)

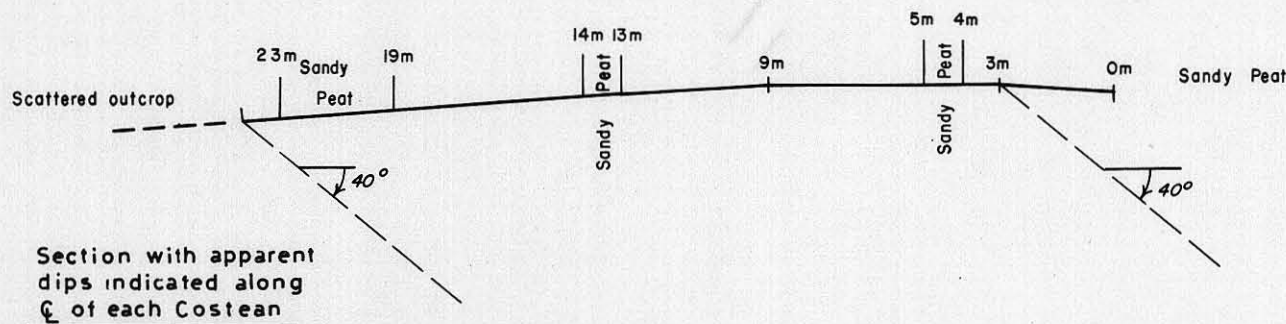
Note: LOI and P₂O₅ values determined by normal chemical methods

Colour code ((N8)etc.) based on "Rock Colour Chart" distributed by the Geological Society of America

5 cm



Plan



Medium grained, light grey (N7) to pinkish grey (5YR8/1) quartzite with the rock being friable from 7-9 metres. Minor crossbedding.

Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF.

Interval	CaO	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O	LOI	SiO ₂	Cr ₂ O ₃	By difference
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01				
0 - 1	0.016	0.265	0.042	0.071		0.137		0.023				
0 - 1 a	< 0.010	0.230	0.023	0.060	< 0.010	0.140		0.010				
1 - 2	0.079	0.478	0.025	0.070		0.038		0.127				
2 - 3	0.002	0.389	0.044	0.079		0.049		0.083				
3 - 4	0.001	0.593	0.027	0.066		0.091		0.165				
4 - 5			NOT		SAMPLED							
5 - 6	< 0.001	0.458	0.019	0.029		0.074		0.171				
6 - 7	< 0.001	0.432	0.038	0.037		0.049		0.146				
7 - 8	< 0.001	2.390	0.055	0.102		0.061		0.821				
8 - 9	< 0.001	1.491	0.059	0.095		0.047		0.429				
9 - 10	< 0.001	0.903	0.050	0.088		0.048	0.0045	0.251	0.13			
9 - 10 a	< 0.010	1.150	0.036	0.090	< 0.010	0.084		0.240				
10 - 11	0.001	0.858	0.022	0.055		0.088		0.254				
11 - 12	0.039	1.156	0.055	0.131		0.034		0.324				
12 - 13	< 0.001	0.738	0.032	0.085		0.075		0.217				
13 - 14			NOT		SAMPLED							
14 - 15	< 0.001	0.114	0.037	0.036		0.037	0.004	0.041	0.11			
14 - 15 a	< 0.010	0.340	0.038	0.066	< 0.010	0.039		0.040				
15 - 16	< 0.001	0.409	0.097	0.098		0.079		0.064				
16 - 17	0.002	0.383	0.022	0.035		0.055		0.105				
17 - 18	< 0.001	0.440	0.029	0.043		0.074		0.135				
18 - 19	< 0.001	0.518	0.023	0.043		0.041		0.156				
19 - 20												
20 - 21			NOT		SAMPLED							
21 - 22												
22 - 23	< 0.001	0.886	0.025	0.042		0.044		0.268				

CAPE SORELL—SILICA, TASMANIA.

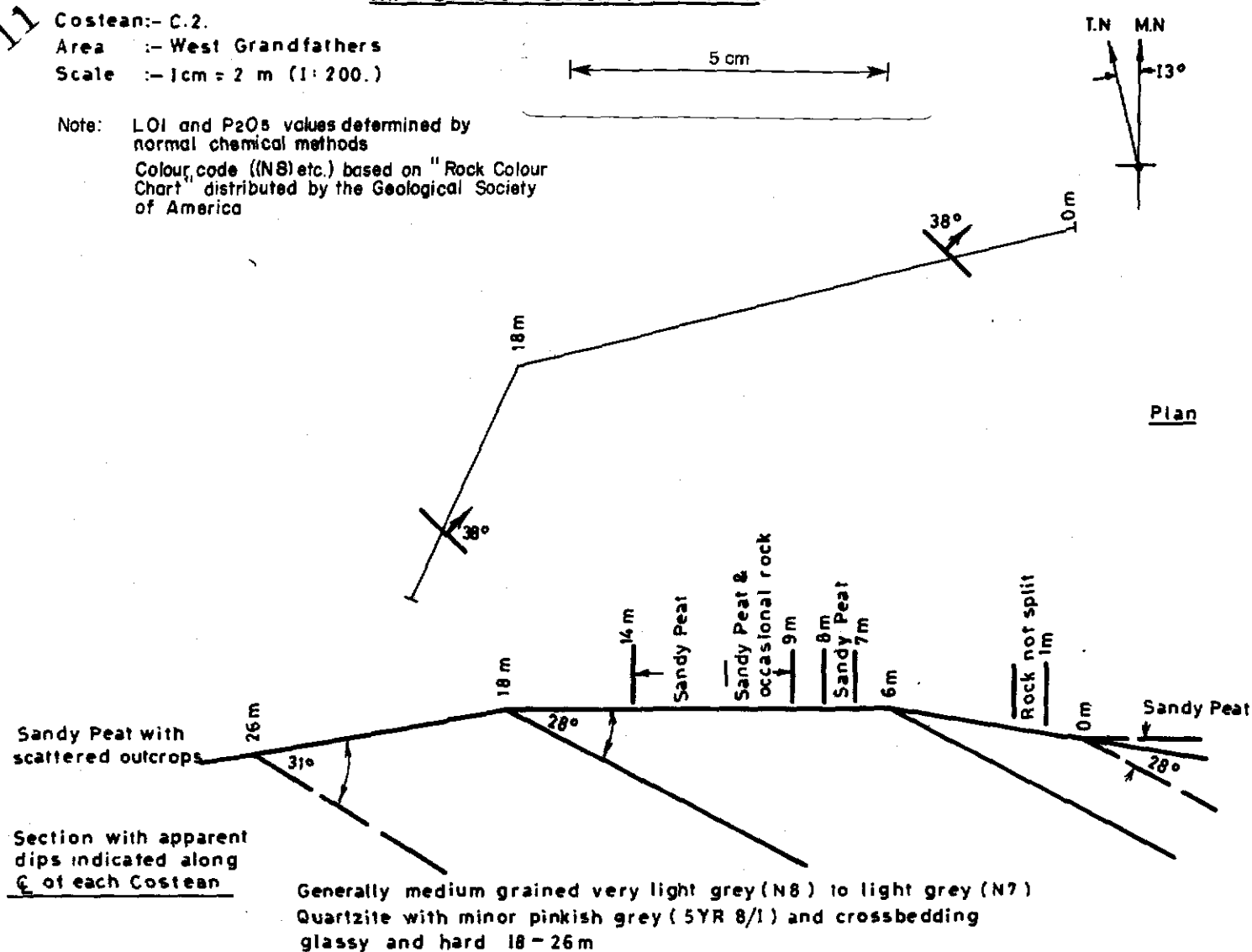
011

Costean:- C.2.

Area :- West Grandfathers

Scale :- 1cm = 2 m (1:200.)

Note: LOI and P₂O₅ values determined by normal chemical methods
 Colour code ((N8) etc.) based on "Rock Colour Chart" distributed by the Geological Society of America



Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF.

Interval	CaO	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O	LOI	SiO ₂	By difference
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01			
0-1	0.002	0.816	0.113	0.131		0.070		0.201			
0-1 'a'	<0.01	0.78	0.077	0.14	<0.01	0.032		0.14			
1-2			NOT	SAMPLED							
2-3	0.001	0.459	0.041	0.089		0.057		0.114			
3-4	<0.001	0.275	0.021	0.060		0.029		0.056			
4-5	0.002	0.769	0.203	0.184		0.083	0.003	0.112	0.11		
4-5 'a'	<0.01	1.120	0.047	0.13	<0.01	0.05		0.18			
5-6	0.001	1.129	0.060	0.123		0.168		0.305			
6-7	<0.001	0.430	0.041	0.068		0.043		0.140			
7-8			NOT	SAMPLED							
8-9	<0.001	0.144	0.021	0.038		0.063		0.035			
9-10											
10-11											
11-12			NOT	SAMPLED							
12-13											
13-14											
14-15	<0.001	0.561	0.013	0.038		0.046	0.003	0.142	0.10		
14-15 'a'	<0.01	0.550	0.038	0.06	<0.01	0.039		0.04			
15-16	<0.001	0.494	0.026	0.035		0.072		0.176			
16-17	<0.001	0.935	0.039	0.134		0.060		0.162			
17-18	0.008	1.805	0.188	0.491		0.098		0.350			
18-19	<0.001	0.601	0.028	0.105		0.107		0.136			
19-20	<0.001	0.662	0.024	0.090		0.060	0.003	0.195	0.18		
19-20 'a'	<0.01	1.300	0.029	0.21	<0.01	0.088		0.29			
20-21	<0.001	0.932	0.074	0.072		0.044		0.278			
21-22	<0.001	0.813	0.019	0.061		0.027		0.253			
22-23	0.001	0.899	0.162	0.158		0.109		0.178			
23-24	0.002	1.634	0.041	0.278		0.064		0.444			
24-25	<0.001	3.106	0.050	0.172		0.051	0.0035	0.916	0.37		
25-26	<0.001	0.852	0.052	0.117		0.031		0.216			
25-26 'a'	<0.01	1.24	0.059	0.19	<0.01	0.075		0.25			

012

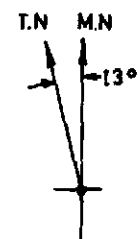
CAPE SORELL—SILICA, TASMANIA.

Costean:- C3.

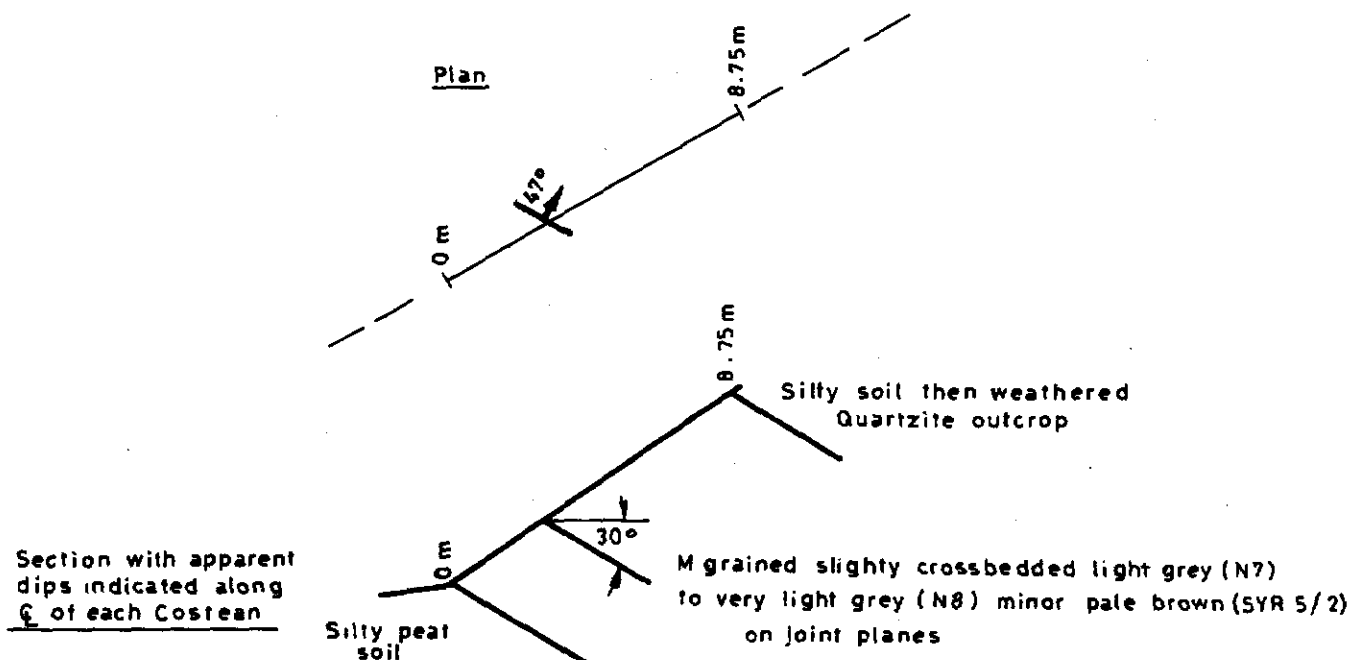
Area :- West Grandfathers.

Scale :- 1cm = 2m (1:200)

5 cm



Note: LOI and P₂O₅ values determined by normal chemical methods
 Colour code ((N8) etc.) based on "Rock Colour Chart" distributed by the Geological Society of America



Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF.

Interval	By difference									LOI	S ₁ O ₂		
	CaO	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O					
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01					
0 1	<0.001	1.416	0.047	0.102		0.100		0.383					
0 1 'a'	<0.01	2.3	0.040	0.16	<0.01	0.11		0.51					
1 2	0.001	1.797	0.106	0.189		0.085		0.532					
2 3	0.003	1.149	0.045	0.126		0.059		0.329					
3 4	0.001	1.135	0.087	0.107		0.058		0.403					
3 4 'a'	<0.01	1.1	0.042	0.13	<0.01	0.036		0.25					
4 5	0.001	1.979	0.063	0.168		0.064	0.005	0.728	0.29				
5 6	0.011	1.586	0.461	0.440		0.067		0.200					
6 7	0.027	3.763	0.332	0.490		0.175		1.081					
7 8	0.009	0.933	0.545	0.270		0.116		0.171					
8 9	0.004	2.003	0.196	0.243		0.098		0.451					
8 9 'a'	<0.01	1.90	0.26	0.26	<0.01	0.88	0.005	0.17	0.27				

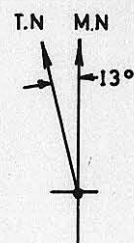
013

CAPE SORELL—SILICA . TASMANIA.

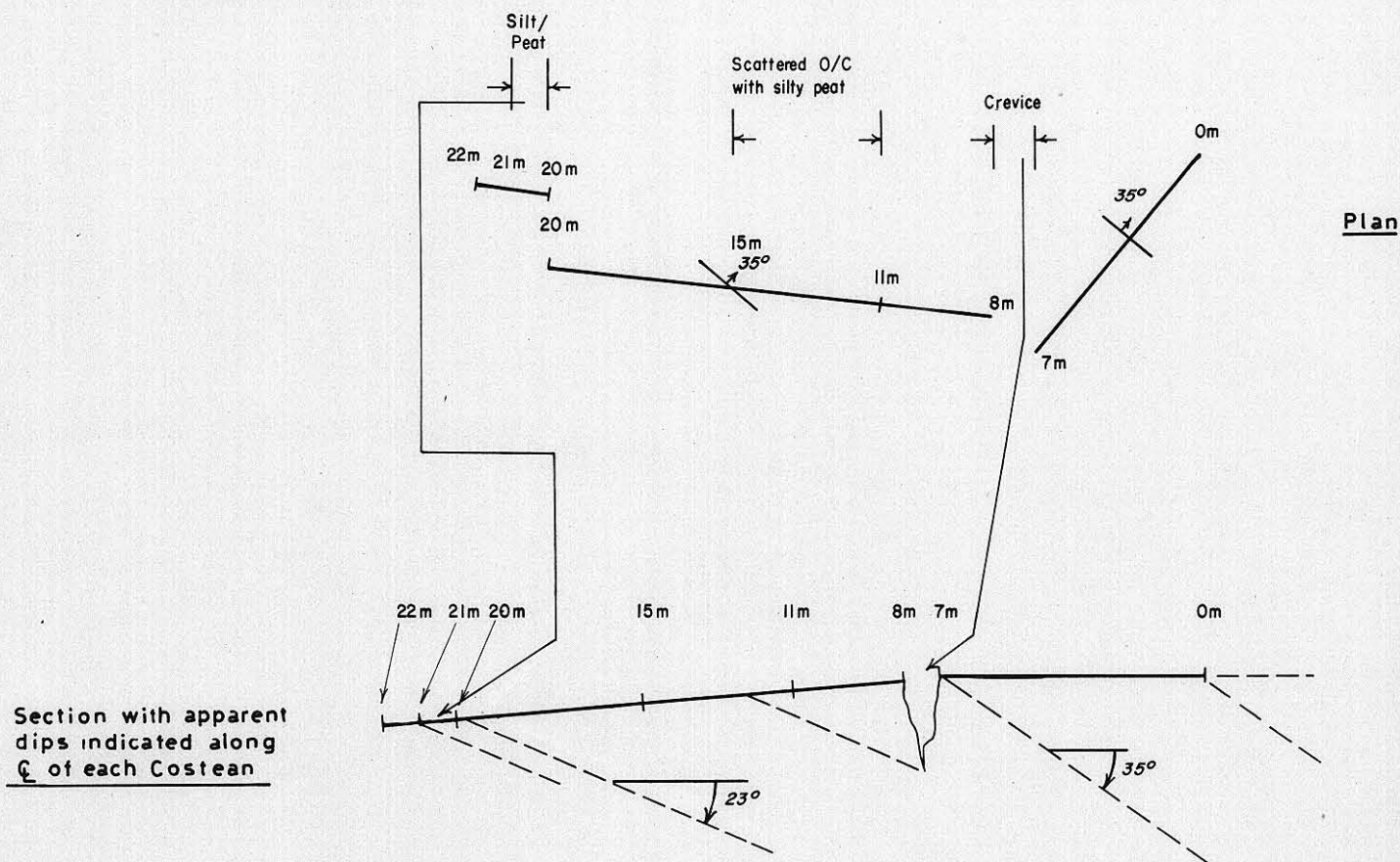
535025

Costean:- C 4
 Area :- West Grandfathers
 Scale :- 1 cm = 2 m (1:200)

5 cm



Note: LOI and P₂O₅ values determined by normal chemical methods
 Colour code (N8) etc.) based on "Rock Colour Chart" distributed by the Geological Society of America



Light grey (N7) and pinkish grey (5yr 8/1) medium grained quartzite with crossbedding and minor rutile on cross beds

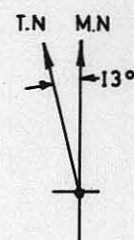
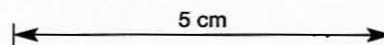
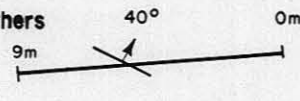
Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney by XRF.

Interval	By difference									
	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O	LOI	S ₁ O ₂
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01		
0 - 1	<0.001	1.106	0.028	0.134		0.072		0.317		
0 - 1a	<0.010	1.120	0.097	0.200	<0.010	0.066		0.200		
1 - 2	<0.001	0.817	0.073	0.111		0.051		0.181		
2 - 3	0.002	0.955	0.164	0.241		0.077		0.134		
3 - 4	<0.001	0.981	0.085	0.120		0.052		0.110		
4 - 5	0.004	0.878	0.228	0.232		0.049	0.002	0.118	19	
4 - 5a	<0.010	1.300	0.340	0.390	<0.010	0.081		0.080		
5 - 6	<0.001	1.015	0.032	0.105		0.047		0.305		
6 - 7	<0.001	0.527	0.146	0.166		0.030		0.074		
7 - 8			NOT	SAMPLED						
8 - 9	0.002	1.124	0.217	0.191		0.119		0.207		
9 - 10	0.001	0.847	0.215	0.171		0.066	0.003	0.081	20	
9 - 10a	<0.010	0.500	0.094	0.120	<0.010	0.080		0.070		
10 - 11	<0.001	1.218	0.145	0.128		0.083		0.084		
11 - 12										
12 - 13			NOT	SAMPLED						
13 - 14										
14 - 15										
15 - 16	<0.001	1.443	0.064	0.096		0.036		0.097		
16 - 17	0.003	1.182	0.065	0.159		0.103		0.315		
17 - 18	<0.001	1.200	0.036	0.157		0.079		0.301		
18 - 19	0.004	1.401	0.187	0.232		0.109		0.288		
19 - 20	0.001	0.850	0.157	0.145		0.052		0.223	21	
19 - 20a	<0.010	1.260	0.180	0.250	<0.010	0.050		0.170		
20 - 21			NOT	SAMPLED						
21 - 22	0.001	1.051	0.079	0.176		0.053		0.276		

CAPE SORELL—SILICA . TASMANIA.

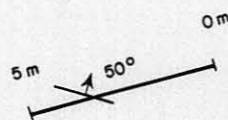
Costean:- C5-1,2&3

Area :- W. Grandfathers

Scale :- 1cm=2m
(or 1:200)

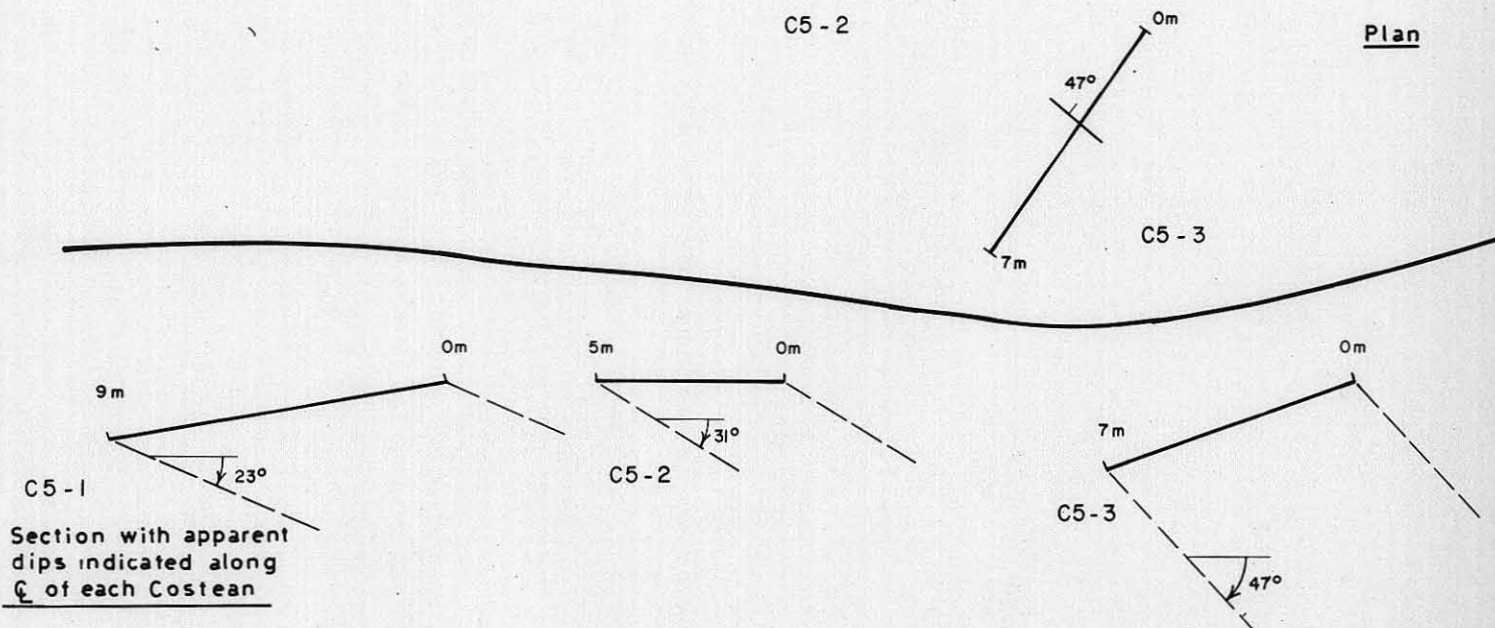
C5 - 1

Note: LOI and P₂O₅ values determined by normal chemical methods
Colour code ((N8) etc.) based on "Rock Colour Chart" distributed by the Geological Society of America



C5 - 2

Plan



Section with apparent dips indicated along $\bar{C}$ of each Costean

C5 - 1 Medium grained, very light grey (N8) to light grey (N7) quartzite with minor rutile on some crossbeds

C5 - 2&3 Medium to coarse grained, light grey (N7) with some pinkish grey (5 yr 8/1) quartzite. Crossbedded

Analysis of Quartzite samples by XRF at Comalco Bell Bay.

Interval	By difference									
	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O	LOI	S ₁ O ₂
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01		
C5-1										
0 - 1	0.015	0.974	0.326	0.373	0.088	0.090		0.069		
1 - 2	0.006	0.948	0.193	0.281	0.020	0.026		0.219		
2 - 3	0.011	0.923	0.275	0.334	0.105	0.160	0.004	0.478	20	
3 - 4	0.012	0.875	0.077	0.146	0.052	0.041		0.261		
4 - 5	0.013	0.717	0.061	0.150	0.034	0.037		0.209		
5 - 6	0.012	1.723	0.132	0.238	0.071	0.070		0.574		
6 - 7	0.007	0.706	0.204	0.214	0.028	0.030		0.110		
7 - 8	0.012	1.217	0.266	0.150	0.029	0.068		0.105		
8 - 9	0.005	1.228	0.279	0.253	0.080	0.072		0.153	12	
C5-2										
0 - 1	0.009	1.884	0.163	0.241	0.021	0.092		0.684		
1 - 2	0.003	1.701	0.131	0.228	0.014	0.068		0.620		
2 - 3	0.009	0.871	0.161	0.141	0.001	0.074		0.221		
3 - 4	0.008	3.410	0.302	0.422	0.072	0.094		1.104		
4 - 5	0.004	1.318	0.108	0.162	0.038	0.039	0.0045	0.333	13	
C5-3										
0 - 1	0.011	2.082	0.799	0.497	0.092	0.101		0.337		
1 - 2	0.001	3.245	0.198	0.541	0.034	0.273		1.152		
2 - 3	0.004	2.331	0.176	0.589	0.029	0.085		0.782		
3 - 4	0.005	2.639	0.303	1.399	0.083	0.118		0.775		
4 - 5	0.002	2.355	0.237	1.011	0.066	0.094	0.0055	0.740	34	
5 - 6	0.007	2.448	0.426	0.550	0.130	0.138		0.276		
6 - 7	0.006	1.765	0.219	0.260	0.051	0.081		0.186		

Costean:- C6 - I
Area :- East Grandfathers
Scale :- 1 cm = 2m (1 : 200)

Note: LOI and P2O5 values determined by normal chemical methods
Colour code (I N8 etc.) based on "Rock Colour Chart" distributed by the Geological Society of America

A diagram showing a vertical line with a point labeled 'Om'. From this point, two lines extend upwards. The left line is labeled 'T.N' and the right line is labeled 'M.N'. The angle between these two lines is marked as 13° .

Plan

Section with apparent
dips indicated along
C of each Costean

Mostly very light grey (N7), medium to coarse grained, crossbedded quartzite. Minor dark grey (N3) foliations.

Silty peat soil

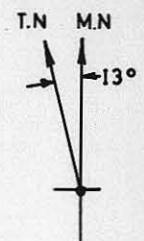
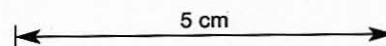
Analysis of Quartzite samples by XRF at Comalco Bell Bay.

By difference

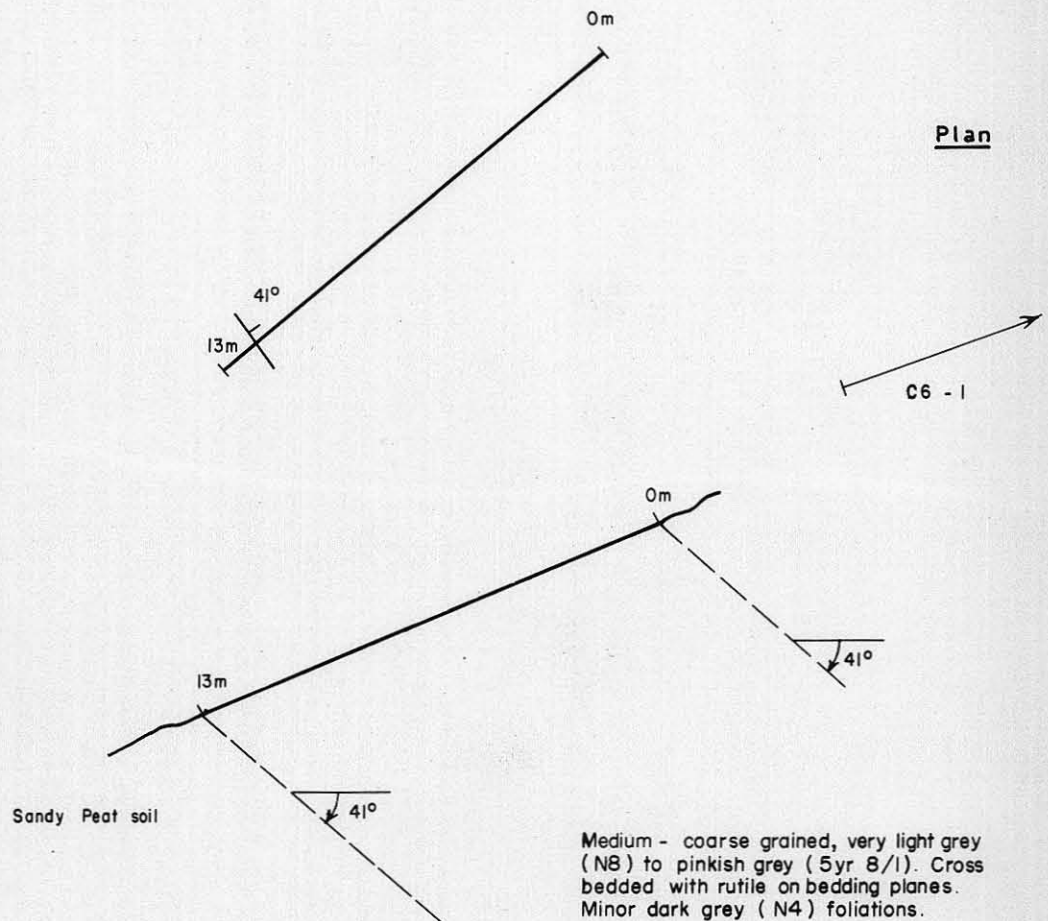
[illegible]

016
 Costean:- C6 - 2
 Area :- East Grandfathers
 Scale :- 1 cm = 2 m (1 : 200)

Note: LOI and P2 O5 values determined by normal chemical methods
Colour code (N8 etc.) based on "Rock Colour Chart" distributed by the Geological Society of America



Section with apparent
dips indicated along
C₁ of each Costean



Analysis of Quartzite samples by XRF at Comalco Bell Bay.

[illegible]

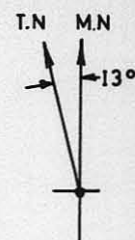
Costean:- C7

Area :- East Grandfathers

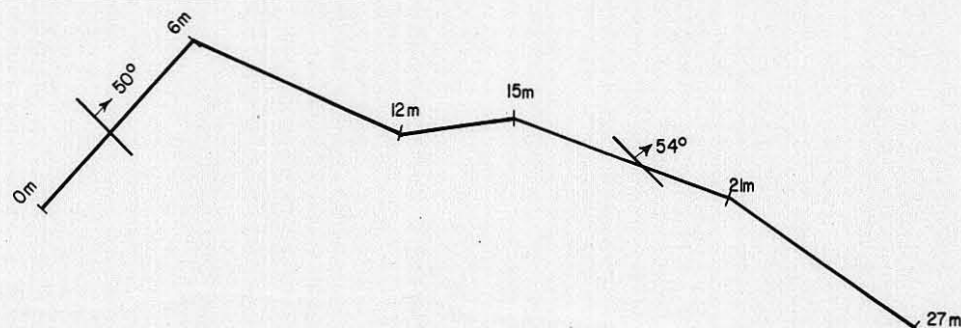
Scale :- 1 cm = 2 m (1:200)

Note: LOI and P2O5 values determined by normal chemical methods

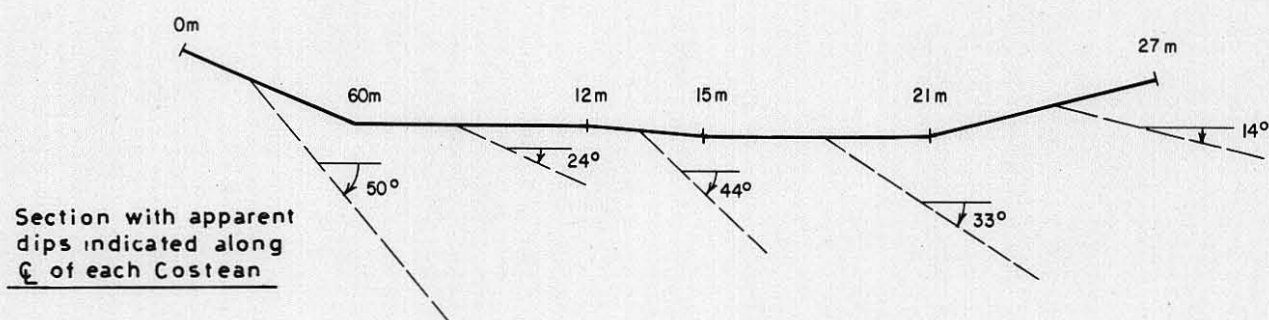
Colour code (1N8 etc.) based on Rock Colour Chart distributed by the Geological Society of America.



5 cm



Plan

Section with apparent dips indicated along ϕ of each Costean

Medium to coarse grained light grey (N7) to pinkish grey (5yr 8/1) quartzite with crossbedding. Light brown (5yr 5/6) on some joint planes

Analysis of Quartzite samples by XRF at Comalco Bell Bay.

Interval	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	MgO	Na ₂ O	TiO ₂	P ₂ O ₅	K ₂ O	LOI	By difference	
										S ₁ O ₂	
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01			
0 - 1	0.003	1.987	0.258	0.237	< .001	0.079	0.011	0.615	.24		
1 - 2	0.002	2.172	0.228	0.390	0.006	0.072		0.668			
2 - 3	0.002	0.921	0.384	0.163	< .001	0.035		0.155			
3 - 4	< .001	1.415	0.285	0.134	< .001	0.081		0.341			
4 - 5	0.001	2.047	0.351	0.276	0.015	0.090		0.706			
5 - 6	< .001	2.137	0.222	0.309	< .001	0.114		0.668			
6 - 7	0.003	6.960	0.498	0.321	0.049	0.306	0.014	2.435	.71		
7 - 8	0.001	2.646	0.228	0.162	0.042	0.176		0.853			
8 - 9	0.002	1.584	0.145	0.125	< .001	0.090		0.483			
9 - 10	< .001	3.273	0.143	0.206	< .001	0.092		1.237			
10 - 11	0.004	2.758	0.132	0.299	0.100	0.070	0.0032	0.747	.22		
11 - 12	0.007	1.758	0.162	0.119	0.069	0.085		0.384			
12 - 13	0.001	3.668	0.321	0.563	0.065	0.187		0.720			
13 - 14	0.004	1.457	0.309	0.221	0.026	0.092	0.0075	0.661	.35		
14 - 15	0.002	2.104	0.148	0.331	0.032	0.132		0.565			
15 - 16	0.009	1.087	0.425	0.240	< .001	0.136		0.189			
16 - 17	0.002	1.642	0.206	0.204	0.005	0.125		0.472			
17 - 18	0.006	1.172	0.438	0.177	0.025	0.061		0.234			
18 - 19	0.004	0.888	0.243	0.159	< .001	0.057		0.109			
19 - 20	0.001	1.168	0.351	0.227	< .001	0.125		0.156			
20 - 21	< .001	0.739	0.340	0.145	< .001	0.019	0.0074	0.071	.13		
21 - 22	< .001	0.695	0.373	0.092	< .001	0.046		0.084			
22 - 23	0.002	0.904	0.452	0.180	0.009	0.059		0.112			
23 - 24	0.004	1.047	0.354	0.173	< .001	0.079		0.113			
24 - 25	< .001	1.175	0.336	0.144	< .001	0.037		0.263			
25 - 26	0.001	1.545	0.389	0.190	< .001	0.110		0.168			
26 - 27	0.004	1.135	0.478	0.160	< .001	0.061	0.007	0.102	.16		

CAPE SORELL—SILICA . TASMANIA.

018

Costean:- DI (Sheet 1 of 2)

Area :- Mt. Obvious

Scale :- 1 cm = 2 m
(1:200)

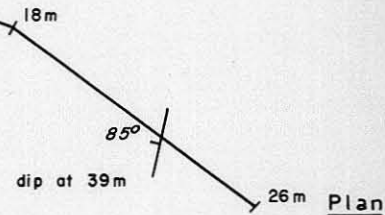
0m

5 cm

T.N M.N

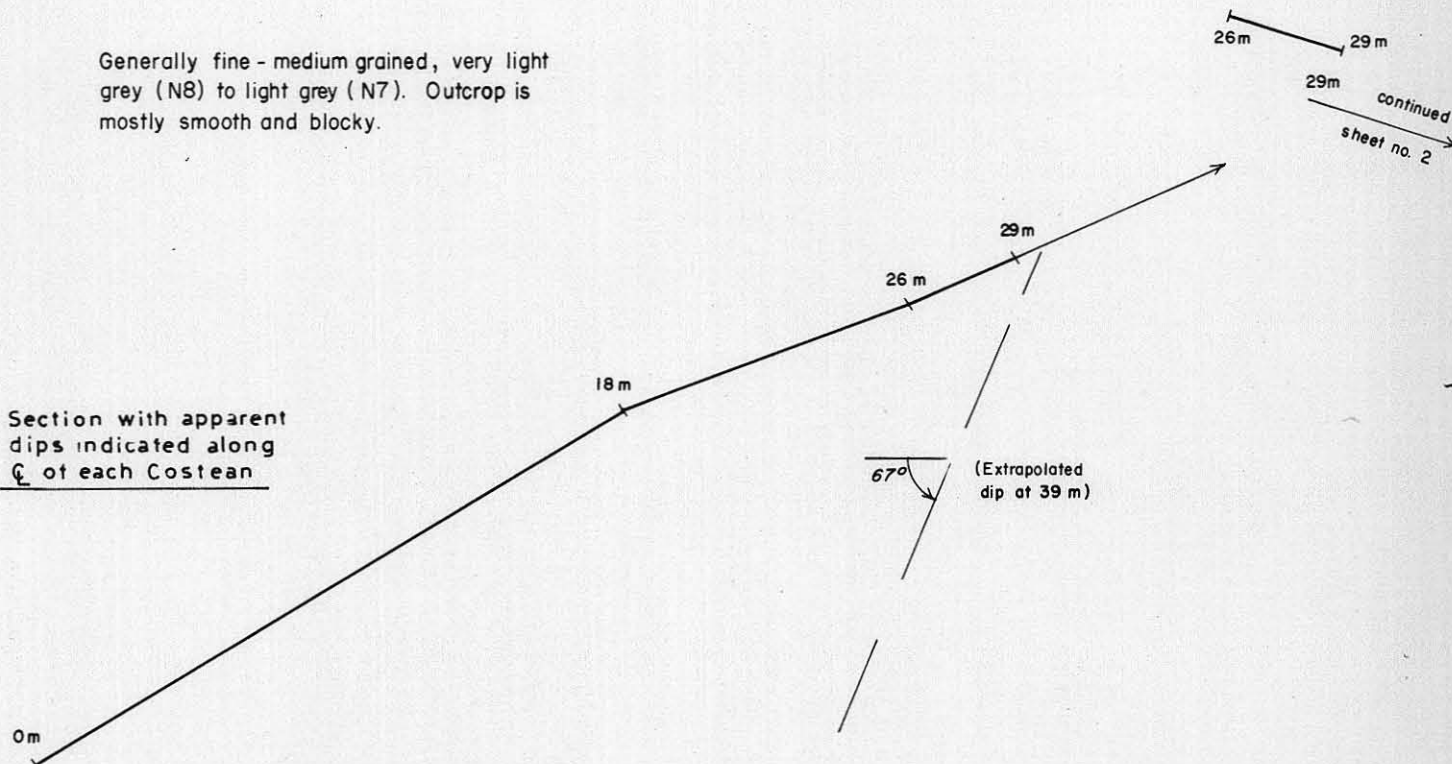
13°

- Note: i) LOI and P₂O₅ values determined by normal chemical methods
 ii) Colour code ((N8) etc.) based on "ROCK COLOUR CHART" distributed by the Geological Society of America



Generally fine - medium grained, very light grey (N8) to light grey (N7). Outcrop is mostly smooth and blocky.

Section with apparent dips indicated along $\underline{C}$ of each Costean



Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed by AMDEL Frewville, S.A.

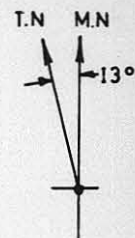
Interval	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	Mg O	Na ₂ O	T ₁ O ₂	P ₂ O ₅	K ₂ O	LOI	Si O ₂	Cr ₂ O ₃	By difference
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01				
0 - 1	< .005	0.128	0.029	0.127	< .005	0.008		0.011				
0 - 1a	< .010	0.080	0.014	< .010	< .010	0.027	0.0021	< .010	.12	99.76	< .001	
0 - 1b	-	.151	.042	.082								
1 - 2	< .005	0.260	0.059	0.214	< .005	0.006		0.008				
2 - 3	< .005	0.300	0.042	0.141	< .005	0.017		0.030				
3 - 4	< .005	0.202	0.040	0.154	< .005	0.015	0.002	0.021	.11			
4 - 5	< .005	0.195	0.035	0.245	< .005	0.015		0.096				
4 - 5a	< .010	0.210	0.023	0.110	< .010	0.027	0.0026	0.010	.16	99.46	< .001	
4 - 5b	-	.189	.071	.132								
5 - 6	< .005	0.146	0.049	0.245	< .005	< .005		0.113				
6 - 7	< .005	0.249	0.007	0.037	< .005	0.010		0.099				
7 - 8	< .005	0.331	0.066	0.407	< .005	0.010	0.0025	0.099	.14			
8 - 9	< .005	0.329	0.052	0.248	< .005	0.015		0.081				
9 - 10	< .005	0.202	0.057	0.239	< .005	0.005		0.043				
9 - 10a	< .010	0.290	0.060	0.310	< .010	0.022	0.0026	0.010	.14	99.16	< .001	
9 - 10b	-	.113	.042	.082								
10 - 11	< .005	0.222	0.022	0.041	< .005	< .005		0.020				
11 - 12	< .005	0.208	0.026	0.089	< .005	0.017	0.0027	0.063	.07			
12 - 13	< .005	0.113	0.009	0.026	< .005	0.013		0.037				
13 - 14	< .005	0.235	0.034	0.124	< .005	< .005		0.058				
14 - 15	< .005	0.173	0.009	< .005	< .005	0.013	0.0035	0.053	.29			
14 - 15a	< .010	0.130	0.015	0.020	< .010	0.024	0.0019	0.020	.16	99.63	< .001	
14 - 15b	-	.132	.042	.082								
15 - 16	< .005	0.070	0.025	0.057	< .005	0.008		0.029				
16 - 17	< .005	0.175	0.011	0.025	< .005	< .005		0.065				
17 - 18	< .005	0.057	< .005	< .005	< .005	< .005		0.035				
18 - 19	< .005	0.026	< .005	0.007	< .005	< .005		0.025				
19 - 20	< .005	0.075	< .005	< .005	< .005	< .005		0.045				
19 - 20a	< .010	0.094	0.012	< .010	< .010	0.014	0.0023	0.020	.11	99.75	< .001	
19 - 20b	-	.056	.042	.033								
20 - 21	< .005	0.302	0.063	0.183	< .005	< .005		0.082				
21 - 22	< .005	0.277	0.012	0.016	< .005	0.006	0.005	0.092	.09			
22 - 23	< .005	0.772	0.019	0.038	< .005	0.026		0.262				
23 - 24	< .005	0.605	0.021	0.029	< .005	0.019		0.221				
24 - 25	< .005	1.026	0.028	0.046	< .005	0.026		0.383				
24 - 25a	< .010	0.950	0.068	0.270	< .010	0.038	0.0037	0.240	.21	98.20	< .001	
24 - 25b	-	.566	.071	.165								
25 - 26	< .005	0.988	0.027	0.041	< .005	0.035		0.342				
26 - 27	< .005	0.854	0.019	0.018	< .005	0.013		0.212				
27 - 28	< .005	0.997	0.033	0.053	< .005	0.028		0.323				
28 - 29	< .005	0.647	0.026	0.021	< .005	< .005		0.230				

019

CAPE SORELL—SILICA . TASMANIA.

Costean:- D 1 (Sheet 2 of 2)
 Area :- Mt. Obvious
 Scale :- 1 cm = 2m (1:200)

5 cm



Continued Sheet no. 1

Note: LOI and P₂O₅ values
 determined by normal
 chemical methods
 Colour code (IN8 etc.) based on
 "ROCK COLOUR CHART" distributed
 by the Geological Society of America

Plan

To D2-1
 17 m at 117°
 mag.

Section with apparent
 dips indicated along
 C of each Costean

As with the lower part of
 costean, (sheet 1), but becoming
 impure from 35 metres. Minor
 iron staining and pale greenish
 yellow (IOYR 8/2) chloritic
 bands.

Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated
 samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed by AMDEL
 Frewville, S. A.

Interval	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	Mg.O	Na ₂ O	Ti.O ₂	P ₂ O ₅	K ₂ O	LOI	Si.O ₂	Cr ₂ O ₃	
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01				
29 - 30	< .005	1.188	0.037	0.046	< .005	0.030	0.005	0.418	.13			
29 - 30a	< .010	0.940	0.033	0.030	< .010	0.038	0.0036	0.260	.21	98.50	< .001	
29 - 30b	.078	.566	.071	.049								
30 - 31	< .005	0.856	0.023	0.024	< .005	0.010		0.315				
31 - 32	< .005	1.079	0.030	0.047	< .005	0.015		0.378				
32 - 33	< .005	0.972	0.041	0.106	< .005	0.008		0.314				
33 - 34	< .005	1.464	0.018	0.055	< .005	0.008		0.451				
34 - 35	< .005	1.108	0.023	0.057	< .005	0.026	0.004	< .005	.18			
34 - 35a	< .010	0.840	0.020	0.040	0.010	0.033	0.0036	0.230	.19	98.60	0.001	
34 - 35b	.039	.566	.042	.049								
35 - 36	< .005	0.963	0.067	0.218	< .005	0.021		0.305				
36 - 37	< .005	1.248	0.199	1.019	< .005	0.026		0.273				
37 - 38	< .005	1.117	0.148	0.636	0.037	0.017		0.264				
38 - 39	< .005	2.513	0.320	1.283	0.039	0.070		0.739				
39 - 40	< .005	1.037	0.239	1.033	0.024	0.028	0.002	0.191	.35			
39 - 40a	< .010	0.890	0.190	0.870	0.010	0.010	0.0027	0.150	.21	97.60	0.001	
39 - 40b	.039	.566	.142	.331								
40 - 41	< .005	1.159	0.257	1.130	0.032	0.028	< .001	0.231				
41 - 42	< .005	1.702	0.215	0.777	0.012	0.035		0.411				
42 - 43	< .005	1.584	0.311	1.311	0.015	0.063		0.326				
43 - 44	< .0	2.116	0.277	1.052	< .005	0.057		0.502				
44 - 45	< .005	1.395	0.265	0.827	0.026	0.039	0.002	0.363	.33			
44 - 45a	< .010	1.000	0.170	0.620	0.010	0.036	0.0048	0.210	.35	97.60	< .001	
44 - 45b	-	.566	.114	.165								
45 - 46	< .005	1.424	0.152	0.444	0.044	0.024		0.437				
46 - 47	< .005	0.843	0.232	0.793	0.034	0.006		0.177				
47 - 48	< .005	2.455	0.488	1.475	0.021	0.074		0.544				
48 - 49	< .005	2.007	0.439	1.377	0.026	0.043	0.002	0.437	.90			

020
C
A

Note: LOI and P₂O₅ values determined by normal chemical methods
Colour code based on "Rock Colour Chart" distributed by the Geological Society of America



Plan

0m 3m 5m 9m 13m

63°

Thin to medium
and greenish
bedding and

Thin to medium bedded, very light grey (5YR 8/1) and greenish grey (5GY 6/1) quartzite cross-bedding and some chloritic bands

Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated samples analysed by A.C.I. Sydney by XRF. Samples marked b were analysed by AMDEL, Frewville S.A. By difference

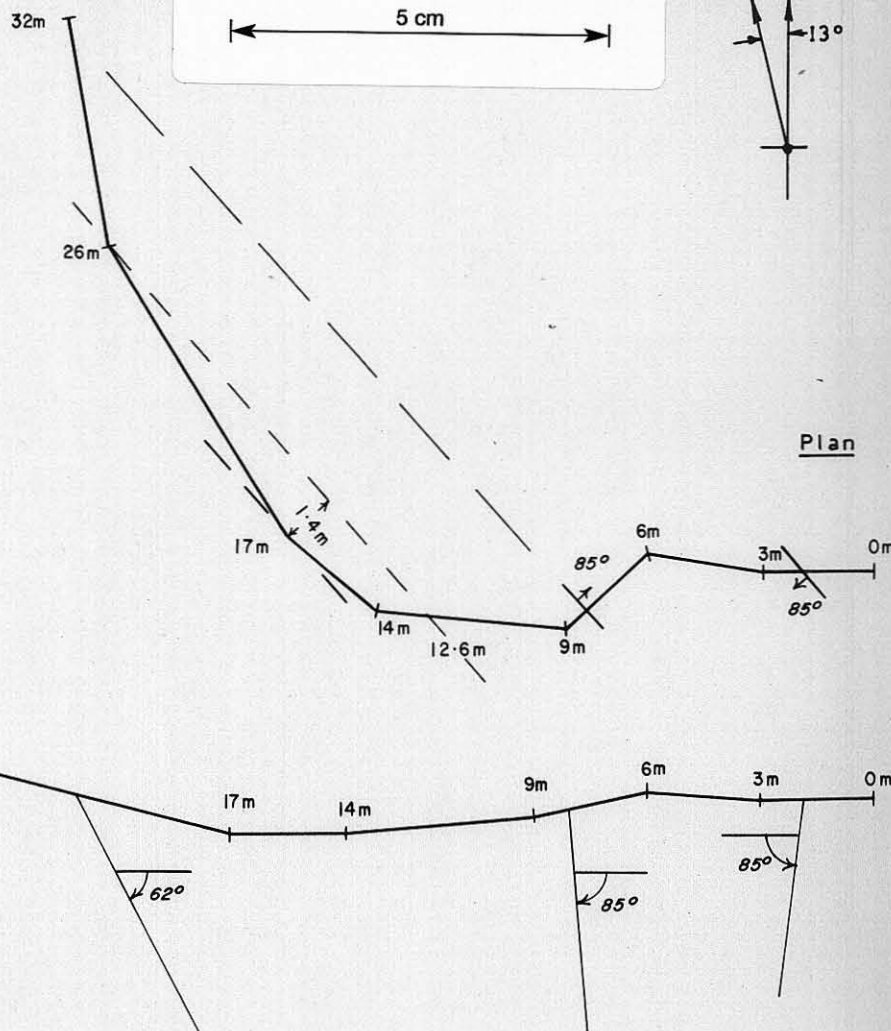
[illegible]

CAPE SORELL—SILICA . TASMANIA.

021

Costean:- D3
 Area :- Mt. Obvious
 Scale :- 1 cm = 2m (1:200)

Note : LOI and P₂O₅ values determined
 by normal chemical methods
 Colour code ((N8) etc.) based on
 "Rock Colour Chart" distributed by
 the Geological Society of America

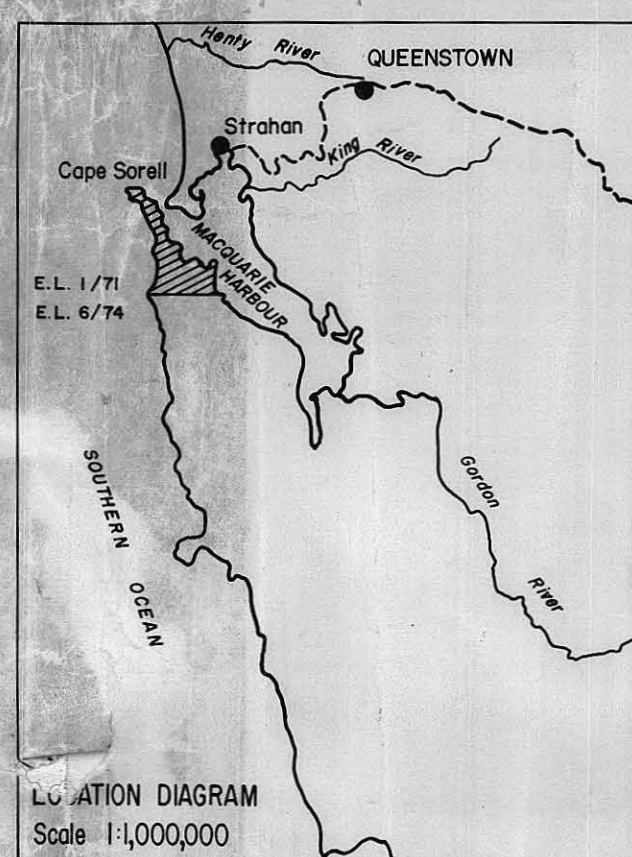


Section with apparent
 dips indicated along
 C of each Costean

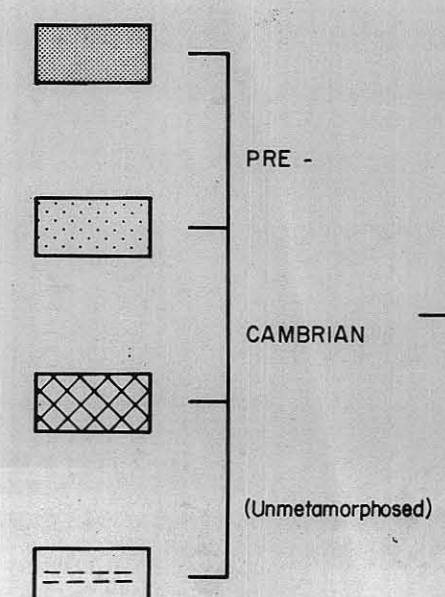
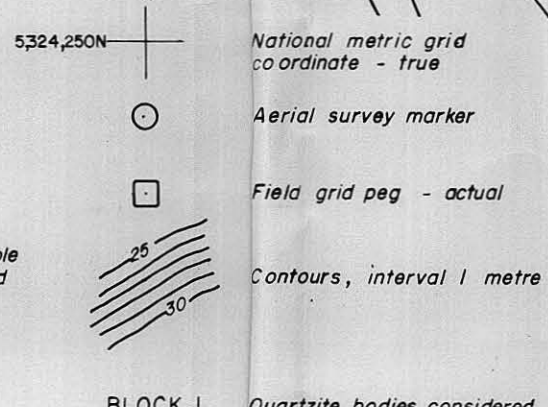
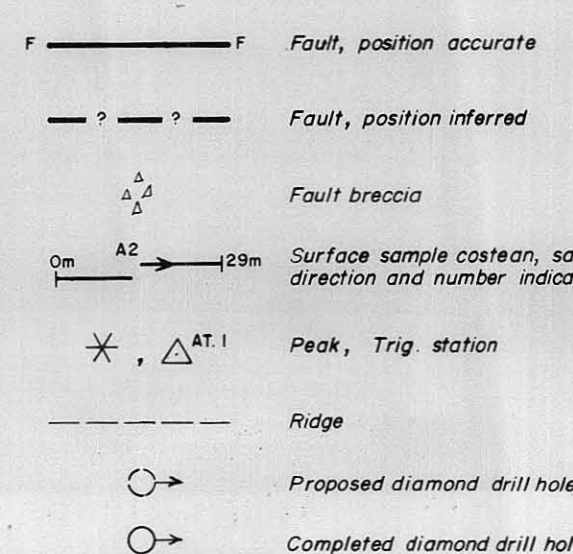
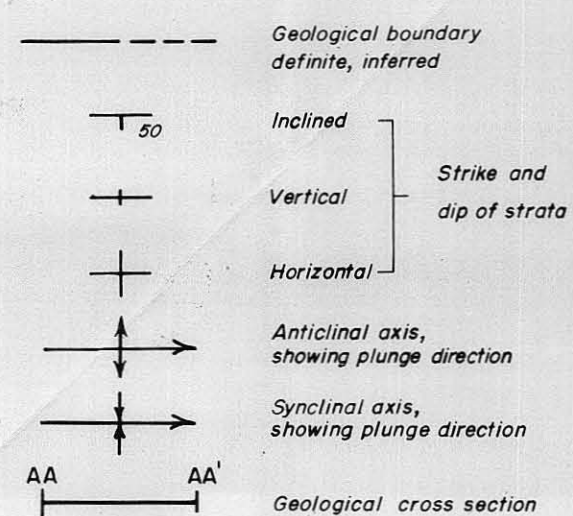
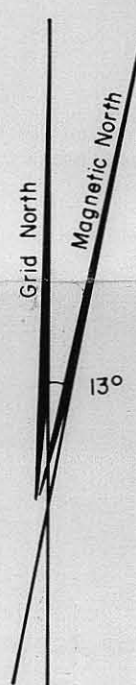
Very light grey (N8) to medium grey quartzite. Dark
 yellowish orange (IOYR 6/6) staining on joints.

Analysis of Quartzite samples by XRF at Comalco Bell Bay. Samples marked 'a' are duplicated
 samples analysed by A.C.I. Sydney. by XRF. Samples marked b were analysed by AMDEL,
 Frewville. S.A.

Interval	Ca.O	Al ₂ O ₃	Fe ₂ O ₃	Mg O	Na ₂ O	Ti O ₂	P ₂ O ₅	K ₂ O	LOI	Si O ₂	Cr ₂ O ₃	By difference
Limit of Detection	0.005	0.013	0.005	0.011		0.007		0.01				
0 - 1	< 0.005	1.669	0.110	0.447	< 0.005	0.068		0.498				
0 - 1a	< 0.010	0.770	0.033	0.130	< 0.010	0.040	0.0029	0.170	.28	98.60	< 0.001	
0 - 1b	-	1.511	.071	.165								
1 - 2	< 0.005	1.391	0.501	1.850	< 0.005	0.026		0.232				
2 - 3	< 0.005	2.337	0.168	0.720	< 0.005	0.076	0.002	0.426	.39			
3 - 4	< 0.005	1.711	0.110	0.527	< 0.005	0.017		0.358				
4 - 5	< 0.005	1.386	0.086	0.346	< 0.005	0.059		0.414				
4 - 5a	< 0.010	1.200	0.085	0.320	< 0.010	0.098	0.0029	0.300	.28	97.70	< 0.001	
4 - 5b	-	.86	.071	.165								
5 - 6	< 0.005	2.101	0.091	0.276	< 0.005	0.054		0.718				
6 - 7	< 0.005	1.308	0.024	0.091	< 0.005	0.048	< 0.001	0.454				
7 - 8	< 0.005	1.720	0.026	0.097	< 0.005	0.030		0.526				
8 - 9	< 0.005	2.297	0.030	0.123	< 0.005	0.024		0.732				
9 - 10	< 0.005	0.801	0.040	0.058	< 0.005	< 0.005		0.283				
9 - 10a	< 0.010	1.100	0.044	0.060	< 0.010	0.033	0.0041	0.280	.23	98.20	< 0.001	
9 - 10b	-	.472	.071	.049								
10 - 11	< 0.005	1.050	0.060	0.082	< 0.005	0.028		0.344				
11 - 12	< 0.005	1.600	0.107	0.088	< 0.005	0.087		0.486				
12 - 13	< 0.005	1.996	0.055	0.128	< 0.005	0.039	0.005	0.607	.23			
13 - 14	< 0.005	1.054	0.021	0.069	< 0.005	0.046		0.401				
14 - 15	< 0.005	0.794	0.074	0.248	< 0.005	0.032		0.216				
14 - 15a	< 0.010	0.810	0.070	0.210	0.010	0.090	0.0032	0.200	.26	98.30	0.001	
14 - 15b	-	.566	.042	.132								
15 - 16	< 0.005	0.360	0.122	0.503	< 0.005	0.006		0.056				
16 - 17	< 0.005	0.309	0.163	0.684	< 0.005	< 0.005		0.029				
17 - 18	< 0.005	0.344	0.257	0.825	< 0.005	< 0.005	0.035	0.016	.24			
18 - 19	0.009	0.781	0.222	0.655	< 0.005	< 0.005		0.018				
19 - 20	< 0.005	0.224	0.171	0.541	< 0.005	0.017		0.017				
19 - 20a	< 0.010	0.280	0.120	0.420	< 0.010	0.028	0.0026	0.010	.20	98.90	< 0.001	
19 - 20b	-	.094	.071	.165								
20 - 21	< 0.005	0.048	0.053	0.173	< 0.005	0.006		0.018				
21 - 22	< 0.005	0.358	0.075	0.231	< 0.005	< 0.005	0.003	0.010				
22 - 23	< 0.005	0.113	0.027	0.090	< 0.005	0.006	0.0035	0.027				
23 - 24	< 0.005	0.264	0.009	0.019	< 0.005	< 0.005		0.067				
24 - 25	< 0.005	0.122	0.006	0.010	< 0.005	0.006		0.058				
24 - 25a	< 0.010	0.200	0.012	< 0.010	< 0.010	0.016	0.0022	0.030	.14	99.60	< 0.001	
24 - 25b	-	.057	.071	.016								
25 - 26	< 0.005	0.151	0.078	0.214	< 0.005	< 0.005		0.036				
26 - 27	< 0.005	0.302	0.019	0.077	< 0.005	< 0.005		0.103				
27 - 28	< 0.005	0.182	0.060	0.270	< 0.005	< 0.005		0.029				
28 - 29	< 0.005	0.155	0.033	0.126	< 0.005	0.006		0.028				
29 - 30	< 0.005	0.010	0.006	0.021	< 0.005	< 0.005		0.017				
29 - 30a	< 0.010	0.050	0.013	< 0.010	< 0.010	0.016	0.0018	0.010	.15	99.76	< 0.001	
29 - 30b	-	.038	.028	.033								
30 - 31	< 0.005	0.135	0.029	0.102	< 0.005	< 0.005		0.024				
31 - 32	< 0.005	0.086	0.006	0.007	< 0.005	< 0.005		0.045				



Mt Antill - DDH 6
Azimuth: 55°
Bearing: 079° True
066° Magnetic
Proposed depth: 90 metres



Orthoquartzite - generally massive
with a smooth and blocky weathered
surface, coloured very light grey
(analysis generally > 98.5 % SiO₂)

Orthoquartzite - generally medium
to finely bedded, with cross-bedding
Honey-combed, sugary, weathered
surface, coloured light grey to
pinkish grey. (analysis generally
95% - 98.5 % SiO₂)

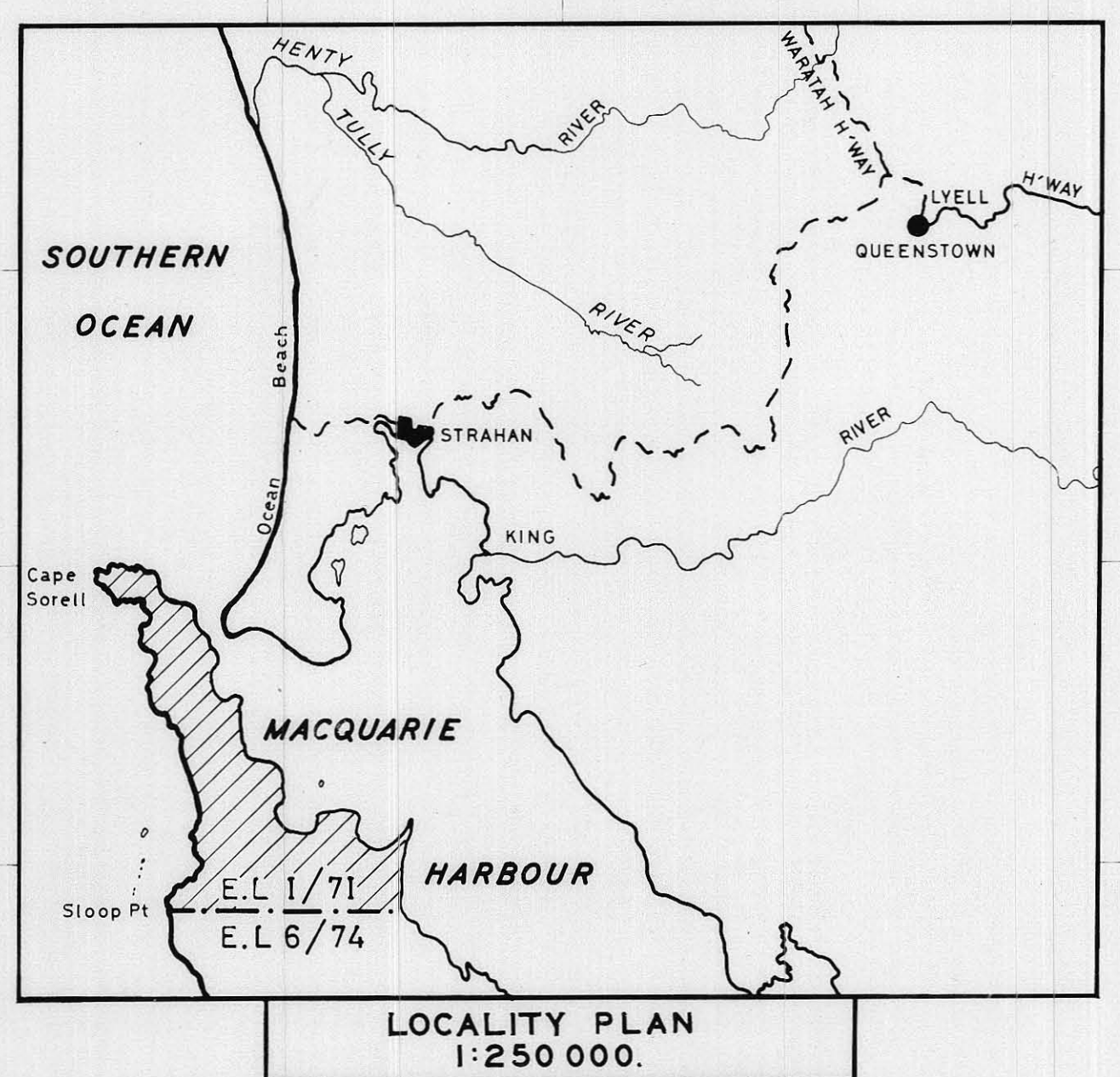
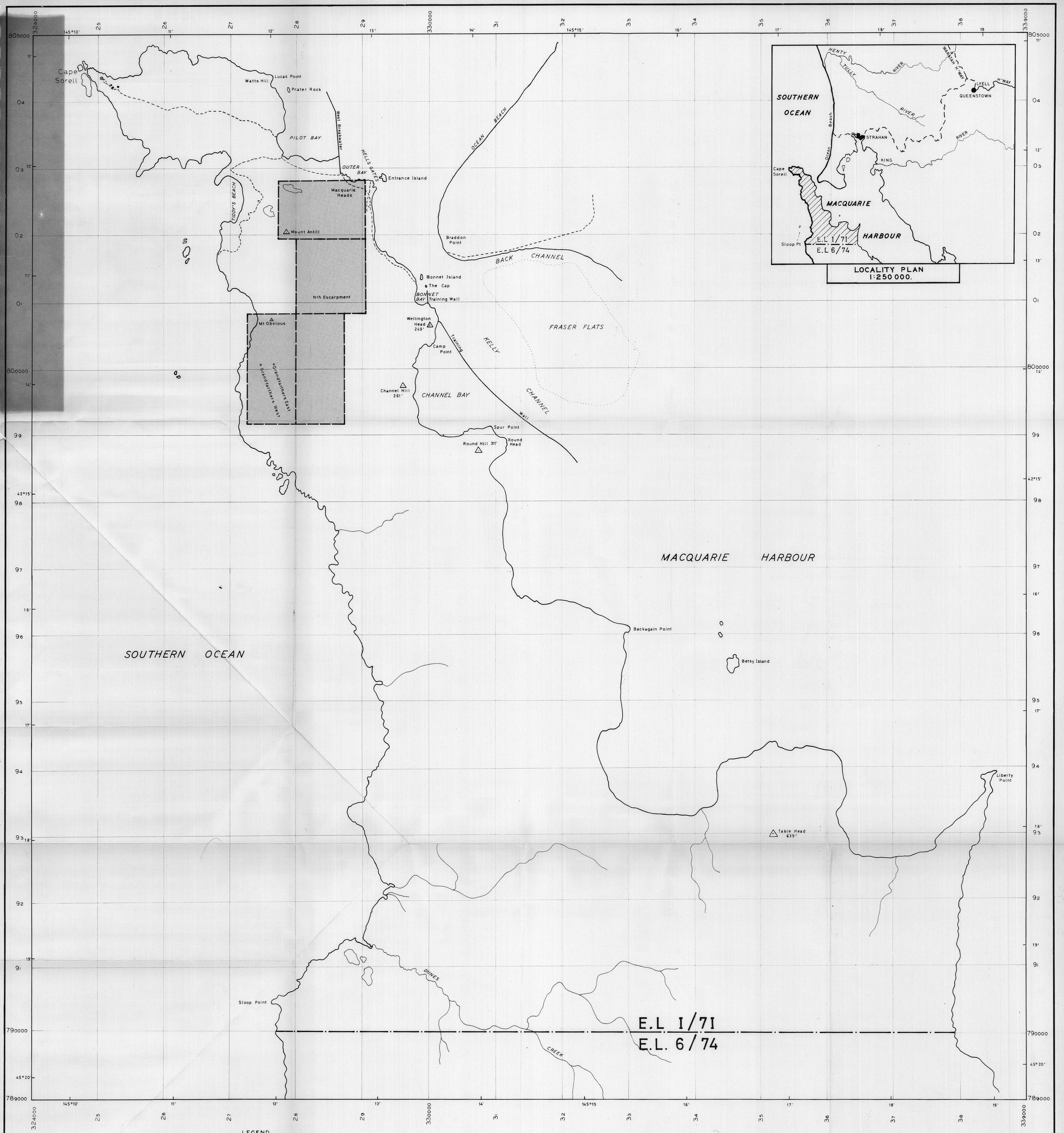
Phyllite - generally thinly bedded,
contorted, siliceous and coloured
very dark grey.

10 0 10 20 30 40 50 60 70 metres

COMALCO LIMITED

CAPE SORELL
PLANE TABLE GEOLOGICAL MAP
MT. ANTILL AREA

Compiled: I. D. Picken	Revised:	Drawn: S. Hutchison
Date: January, 1975	Scale: 1:500	Drg. No. TAS/CS/75/12



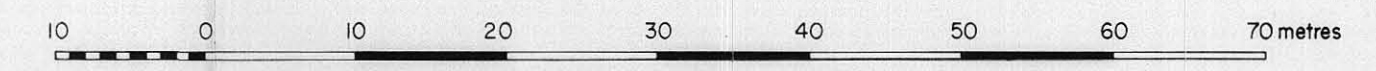
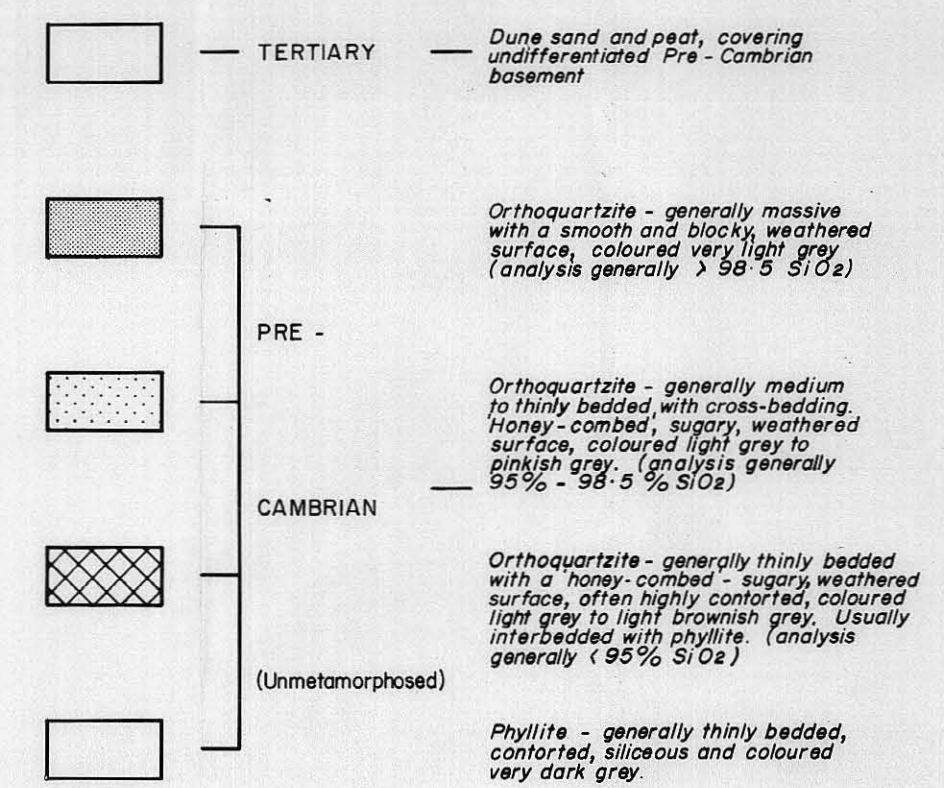
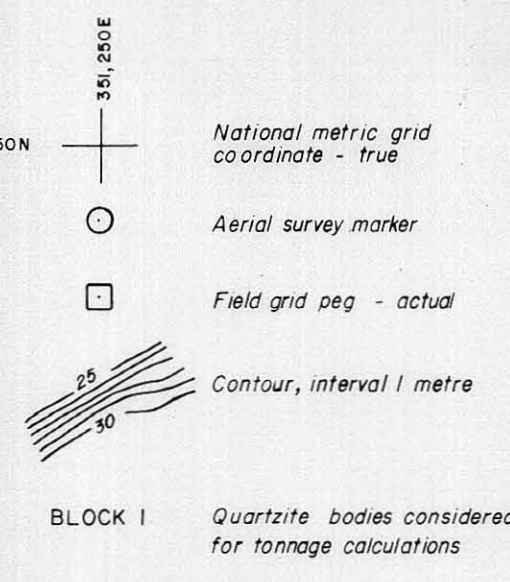
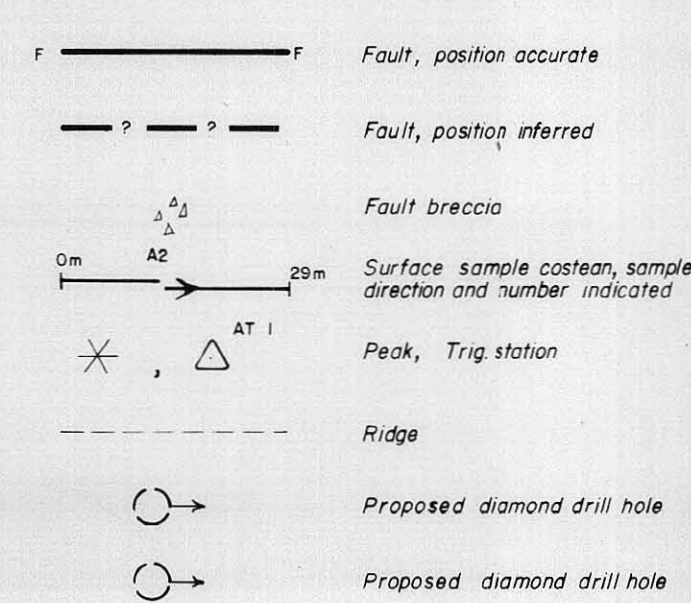
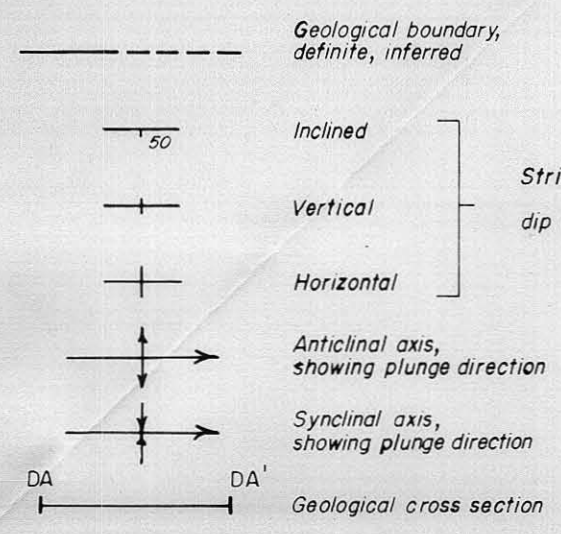
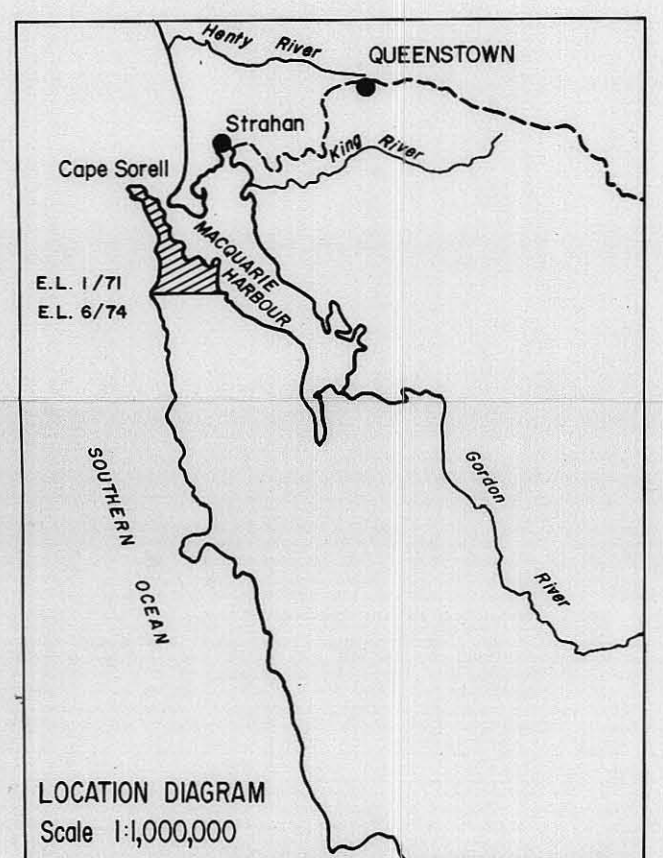
E.L. 1/71 BOUNDARY.....
VEHICULAR TRACK.....
WATER COURSE.....
LIGHTHOUSE.....
SAND FLATS.....
ORIGINAL ML'S.....
CONSOLIDATED ML 16M/75.....

535035

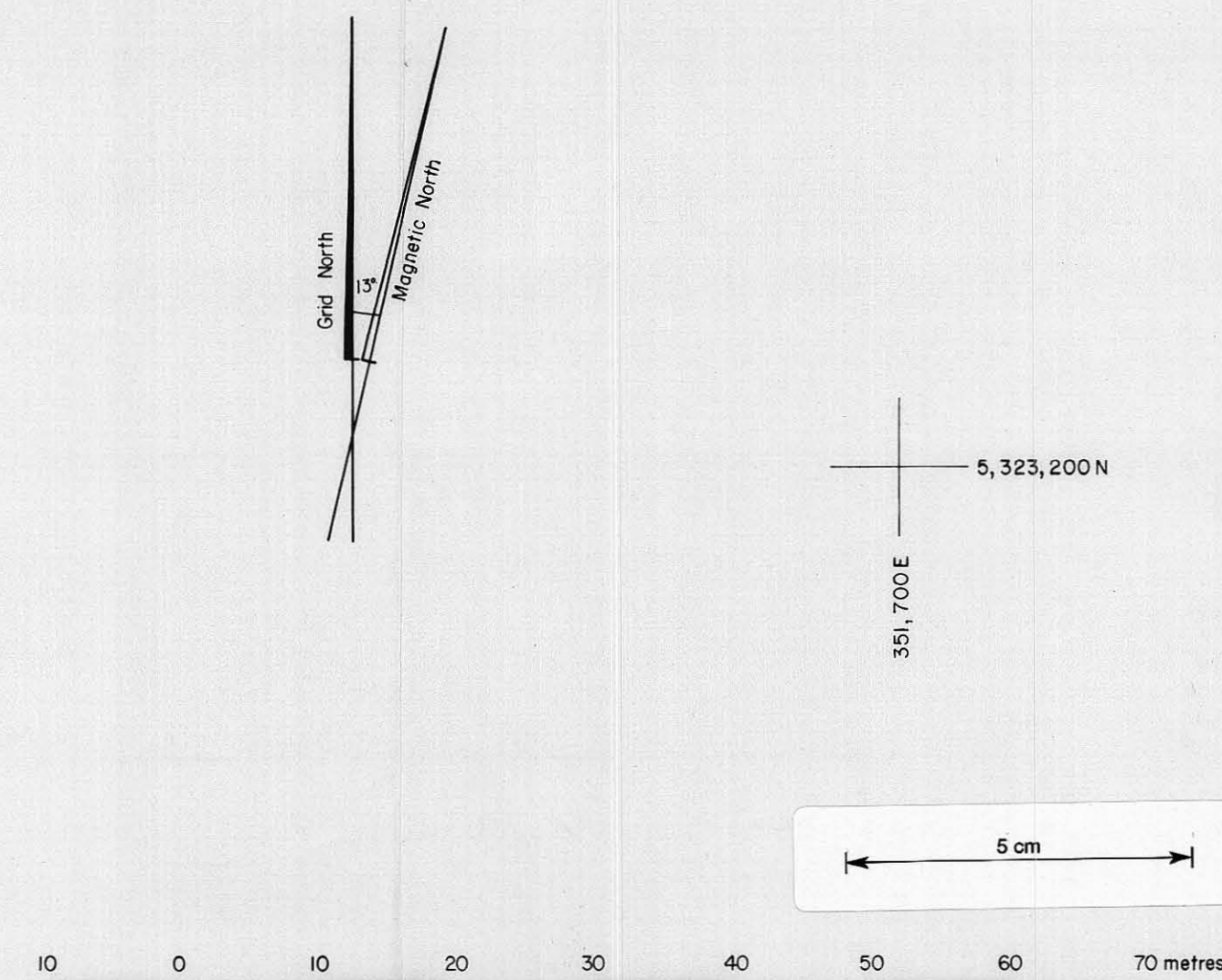
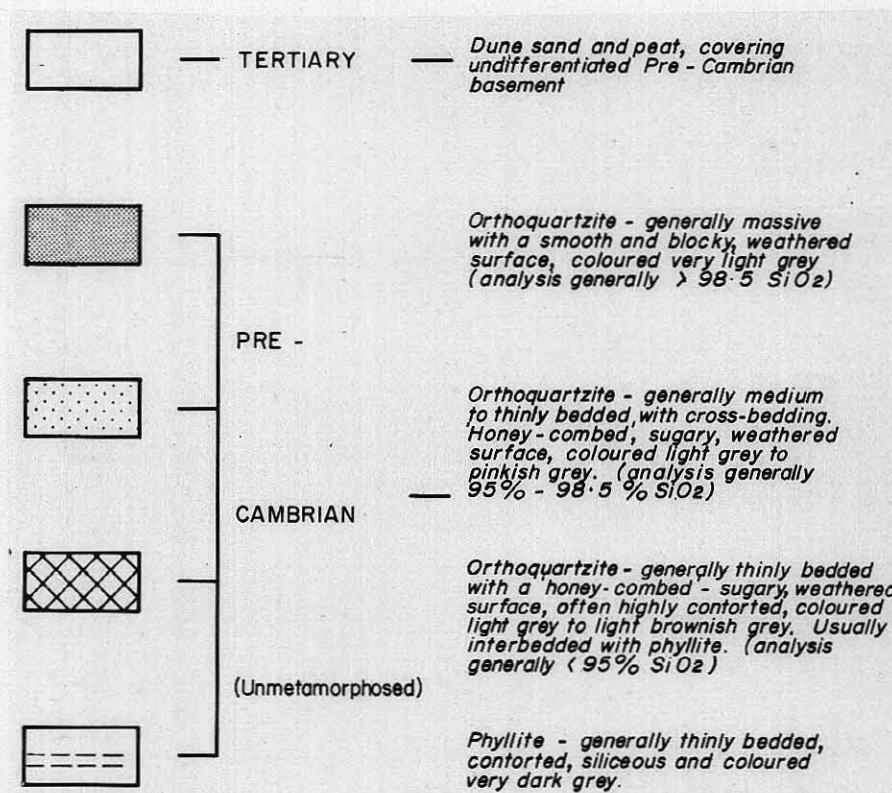
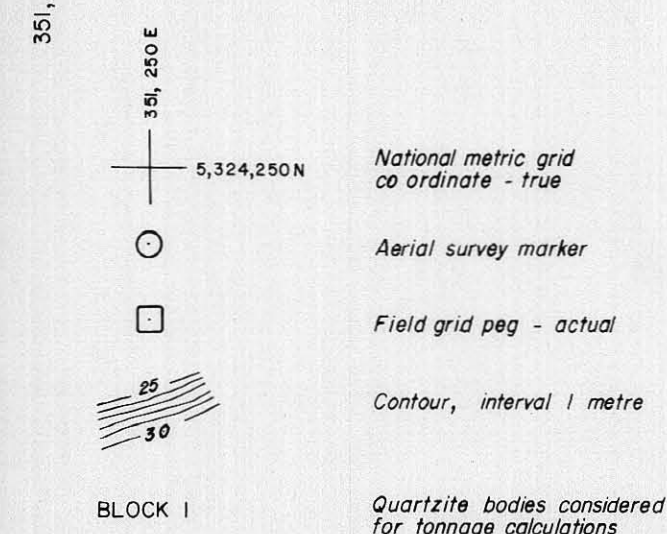
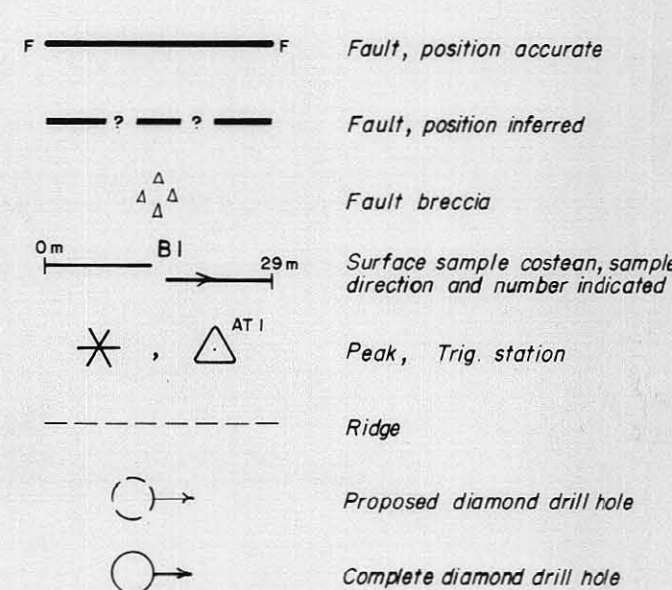
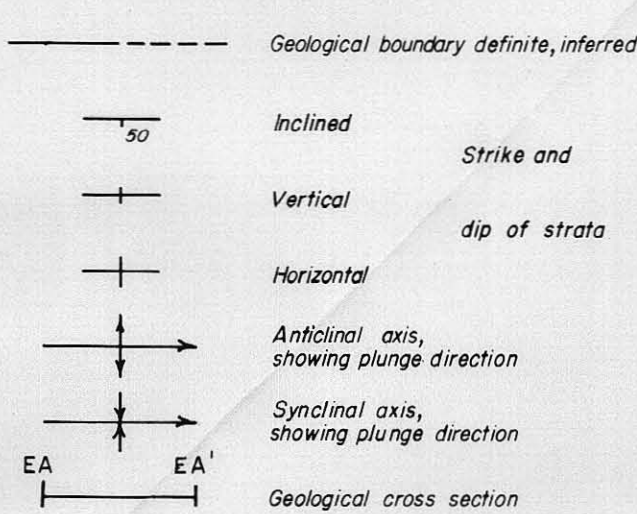
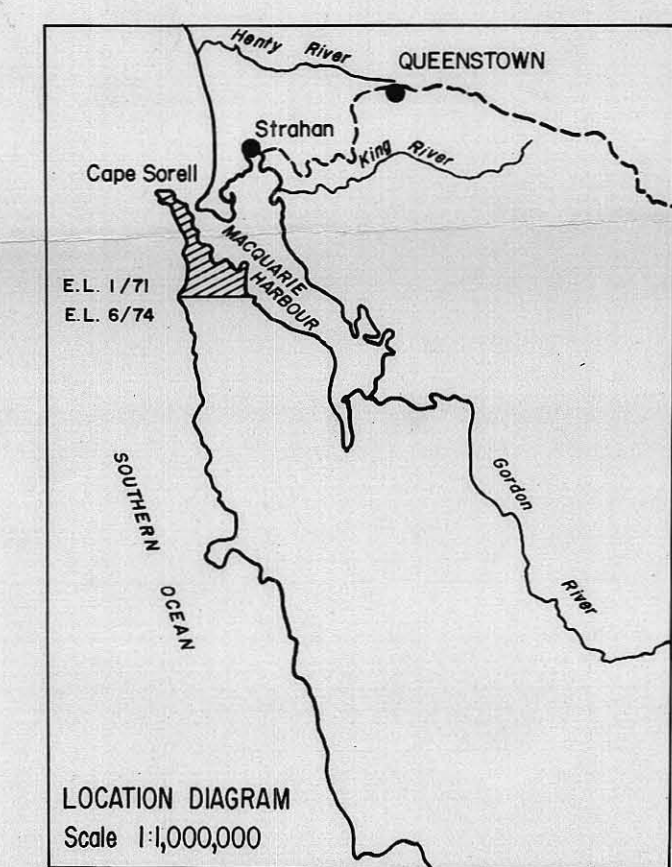
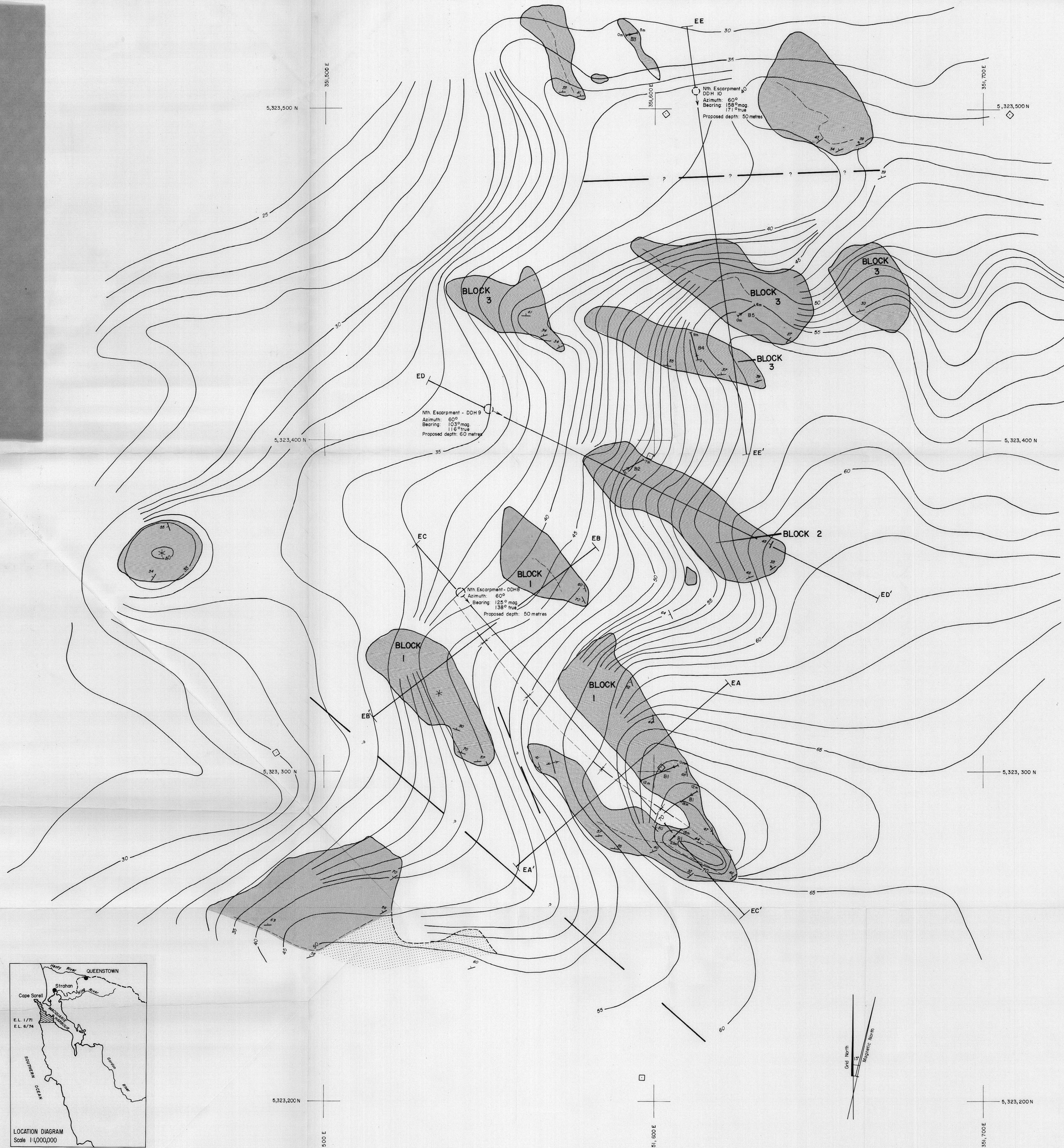
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CAPE SORELL PENINSULA WEST TASMANIA
E.L. 1/71, E.L. 6/74 & M.L. 16M/75.

COMPILED BY B.F.B.	DRAWN BY B.F.B.	EXPLORATION DEPARTMENT
DATE 31.4.1975	SCALE 1:20,000	Nº TAS/CS/75/17.

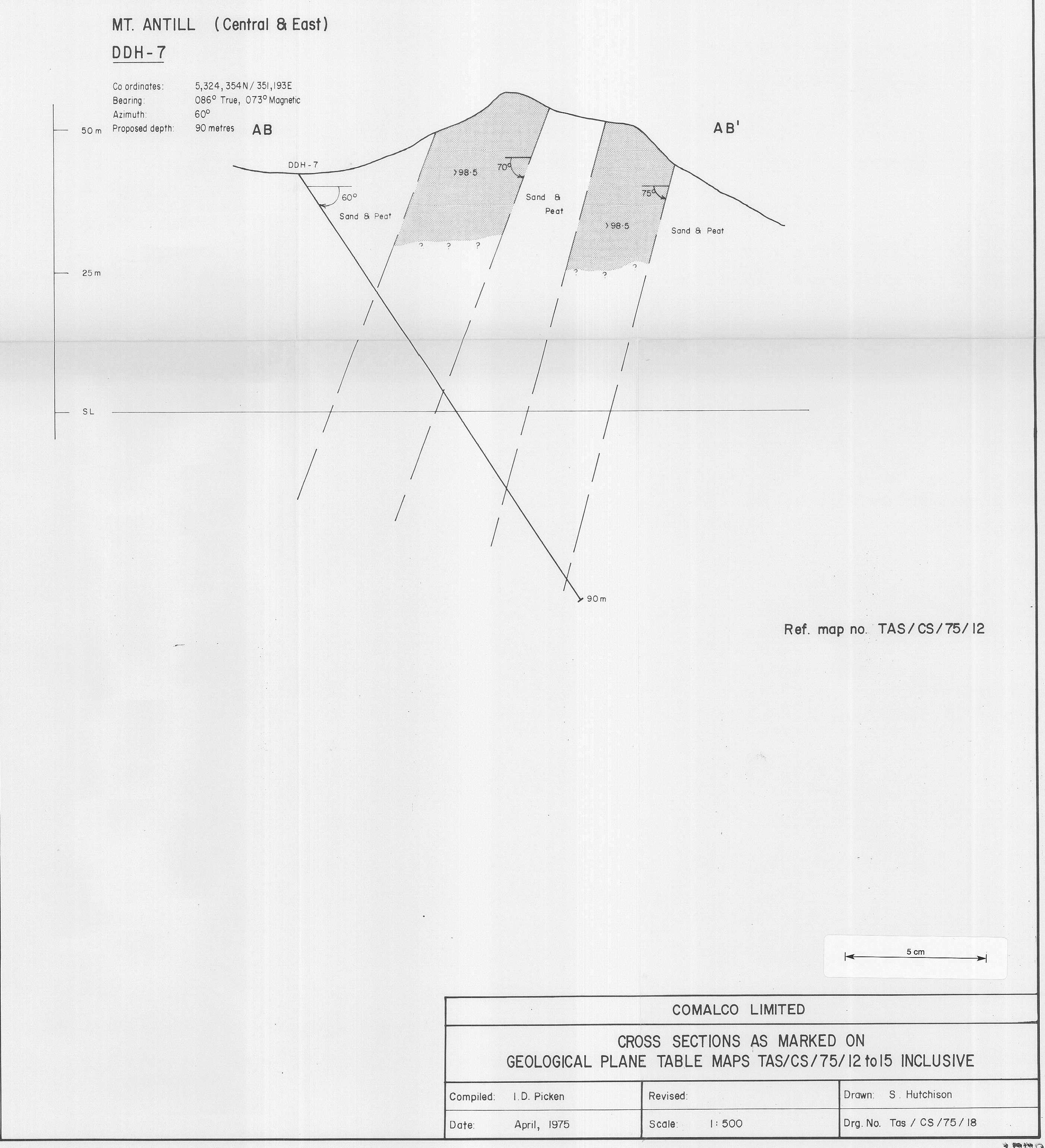
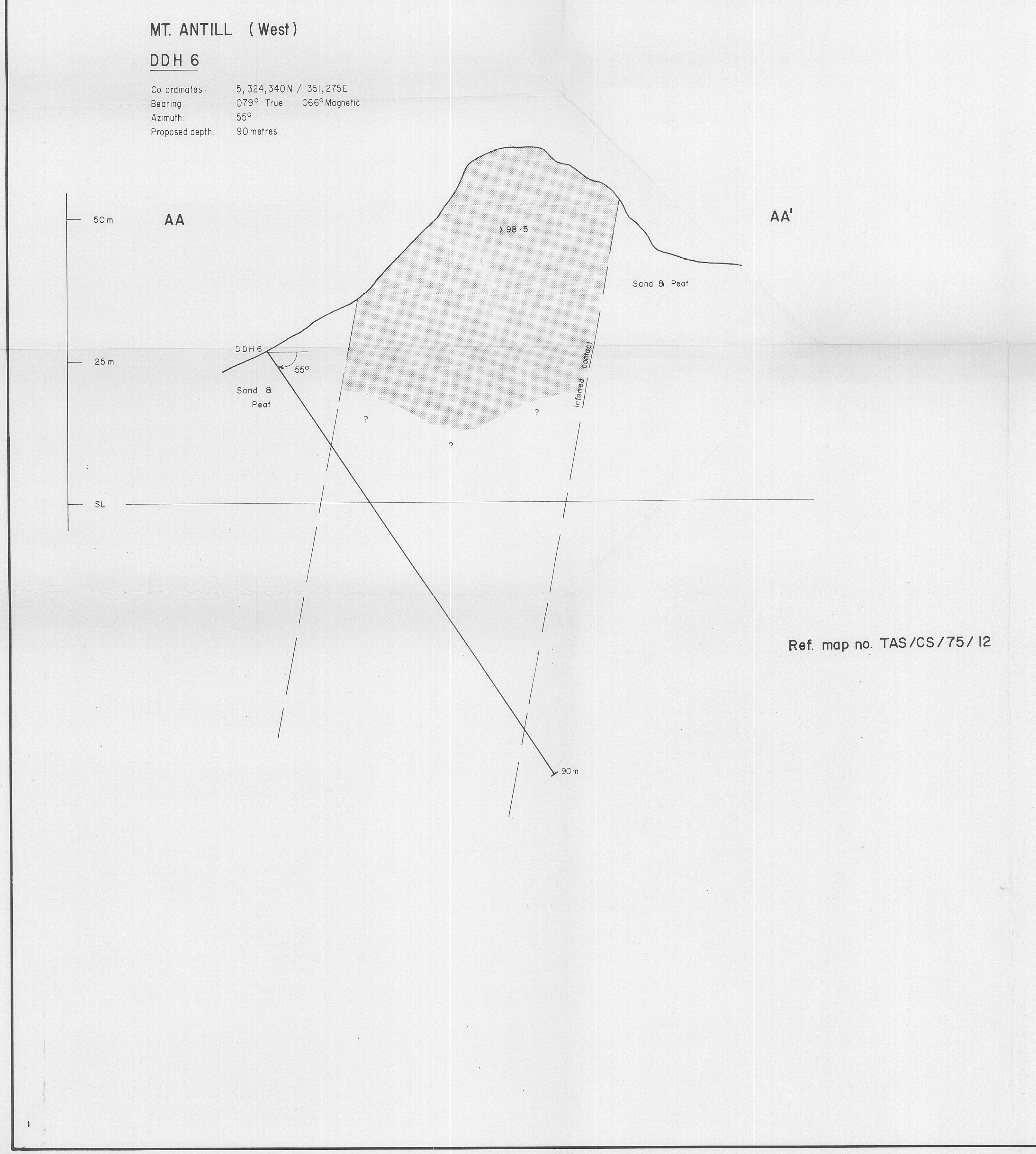
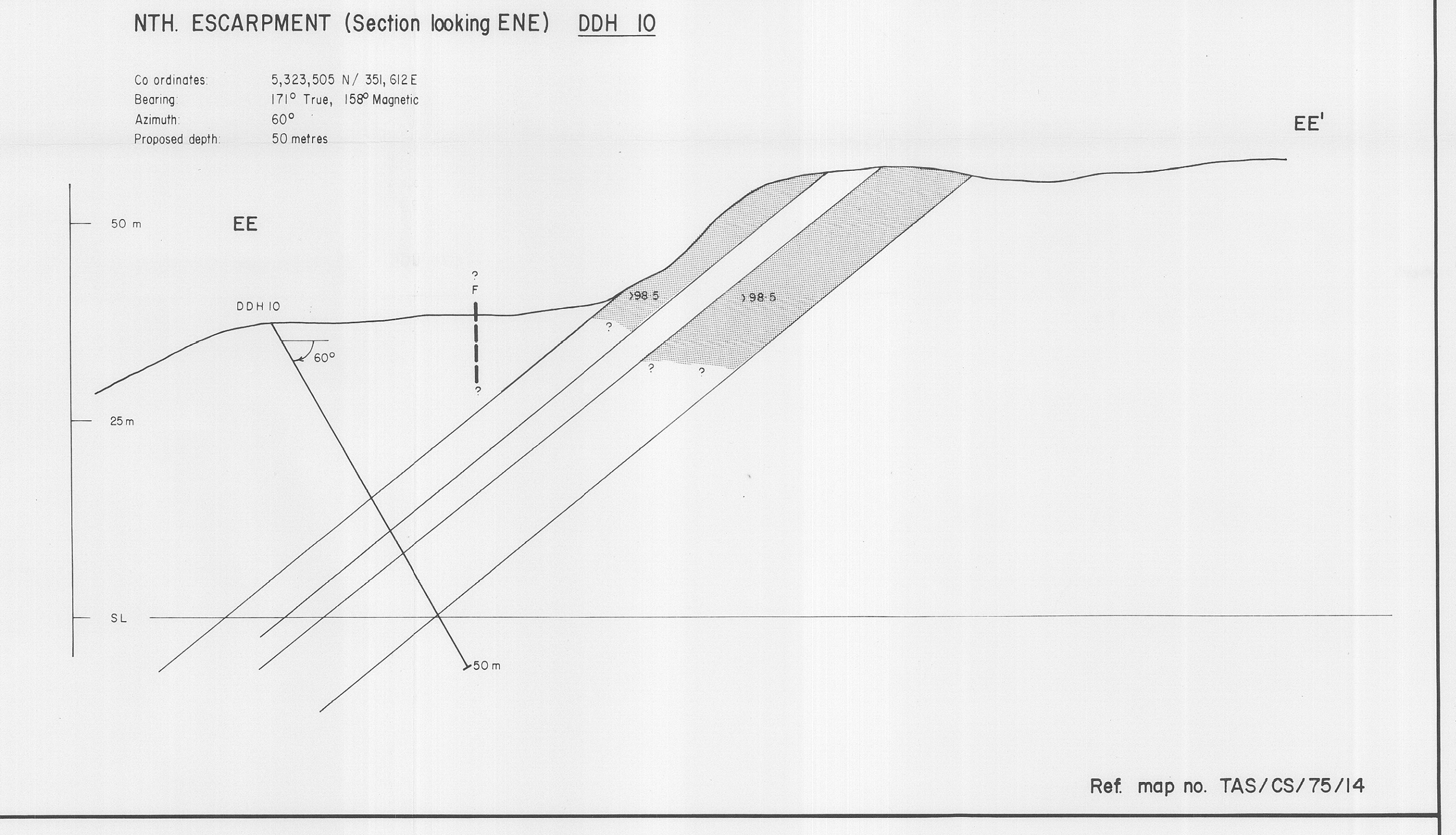
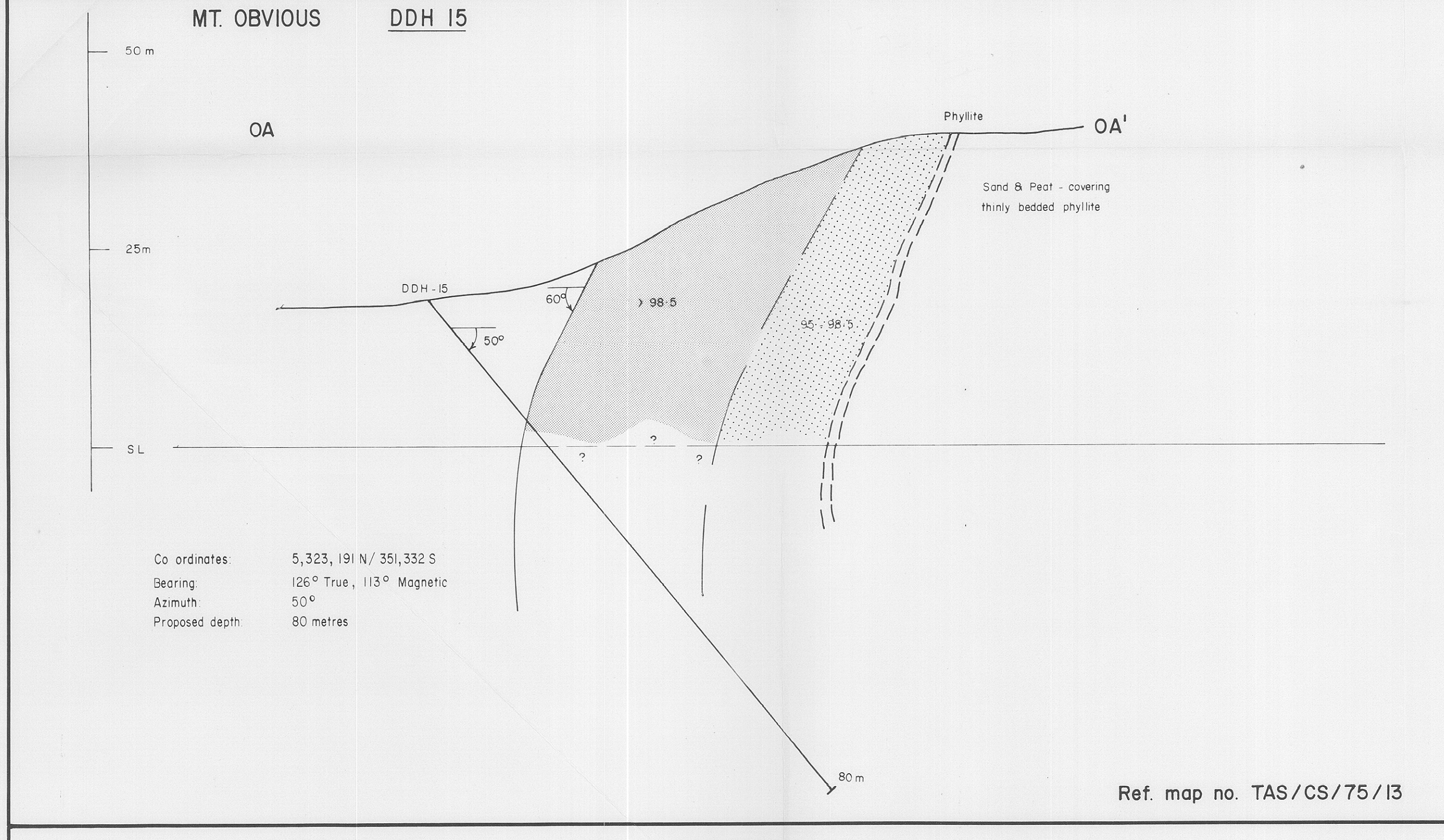
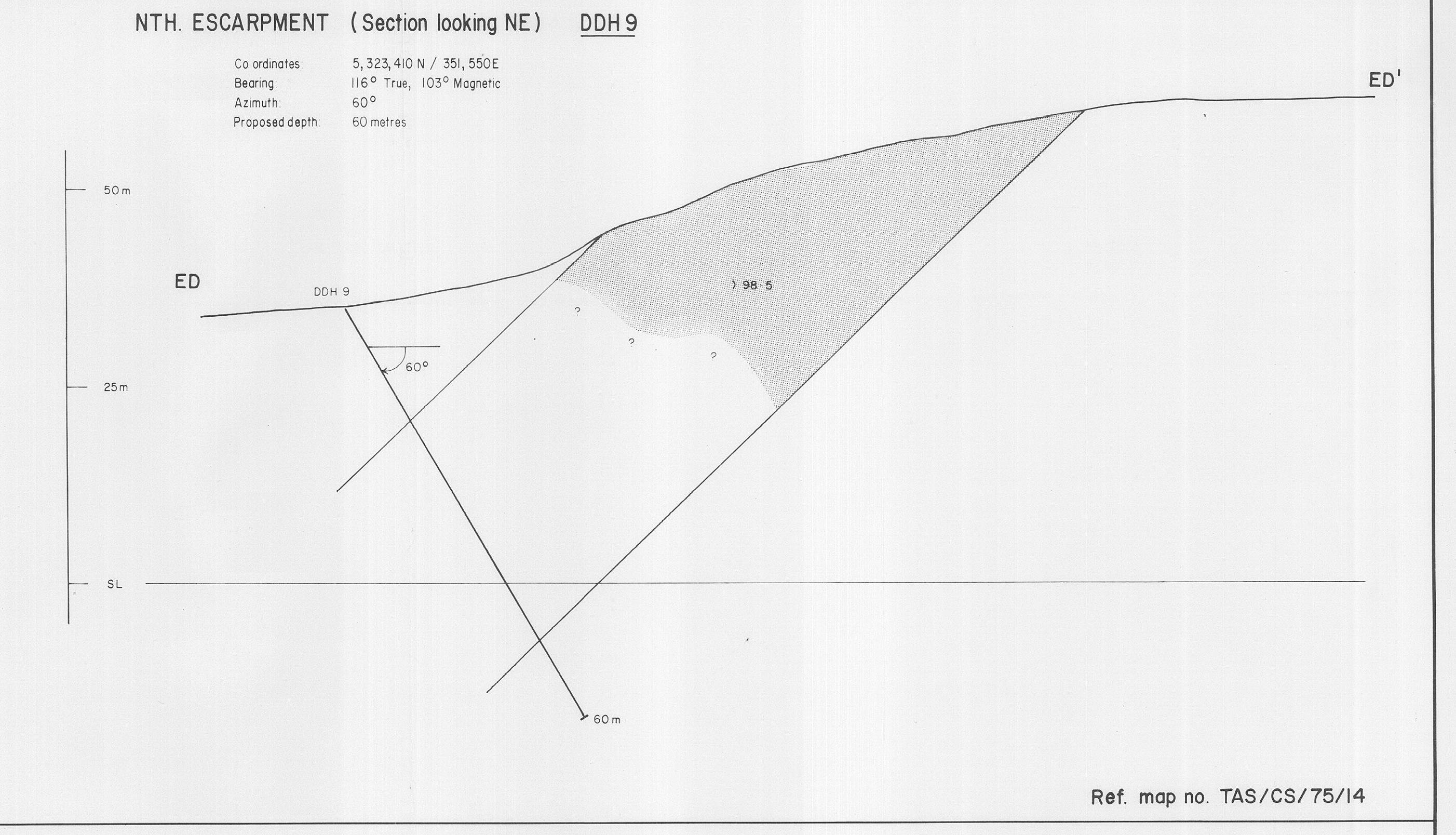
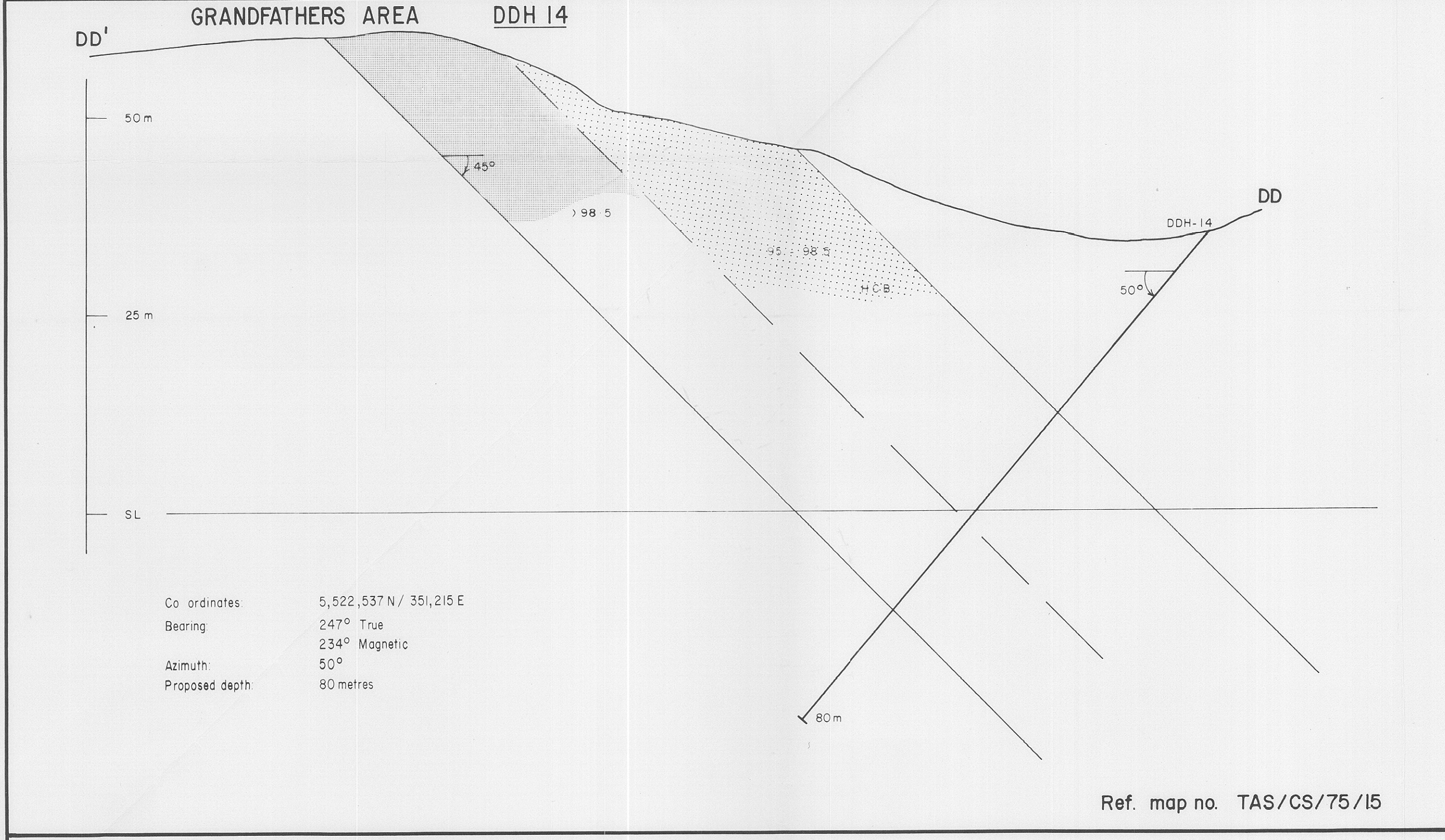
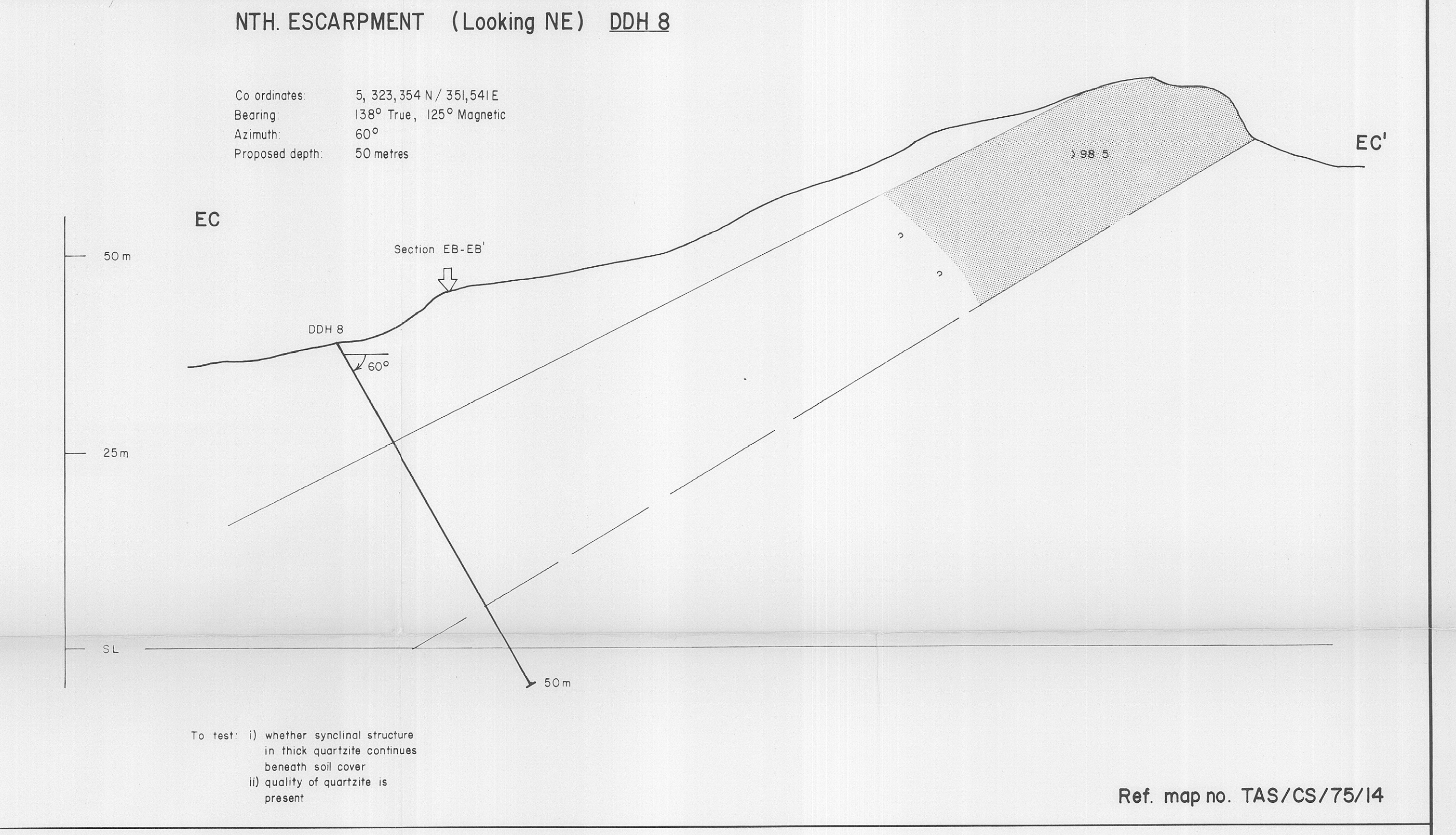
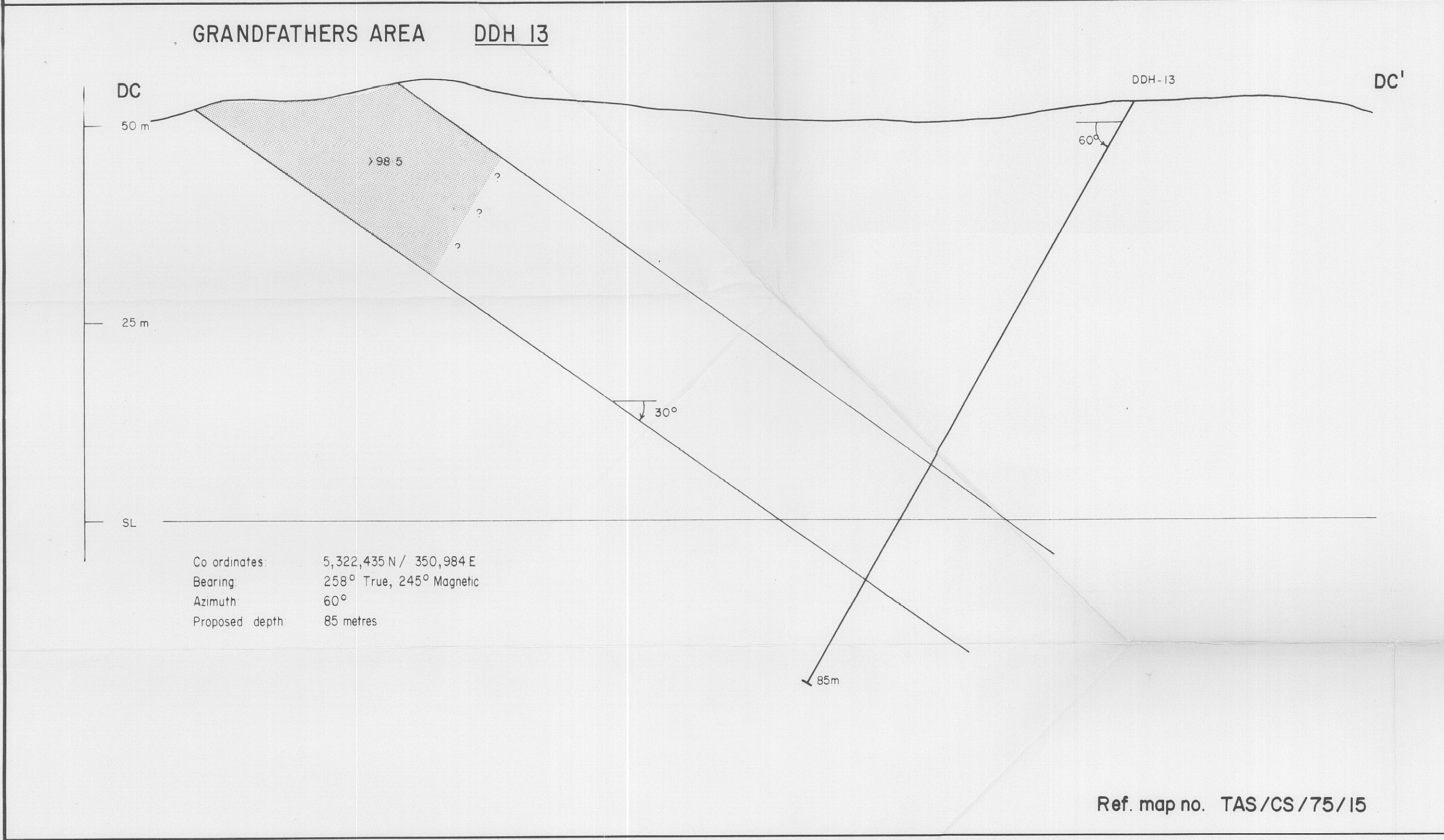
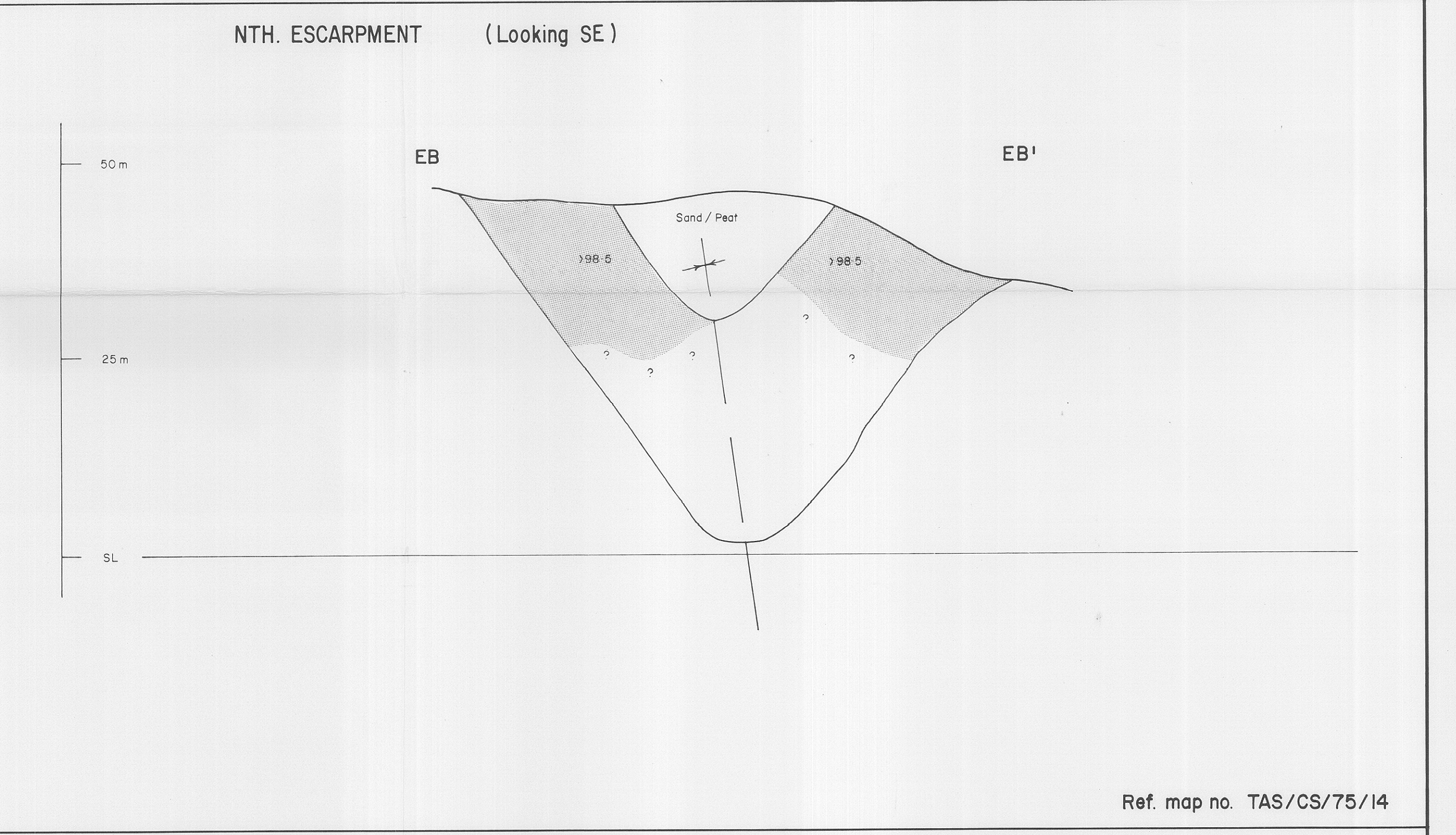
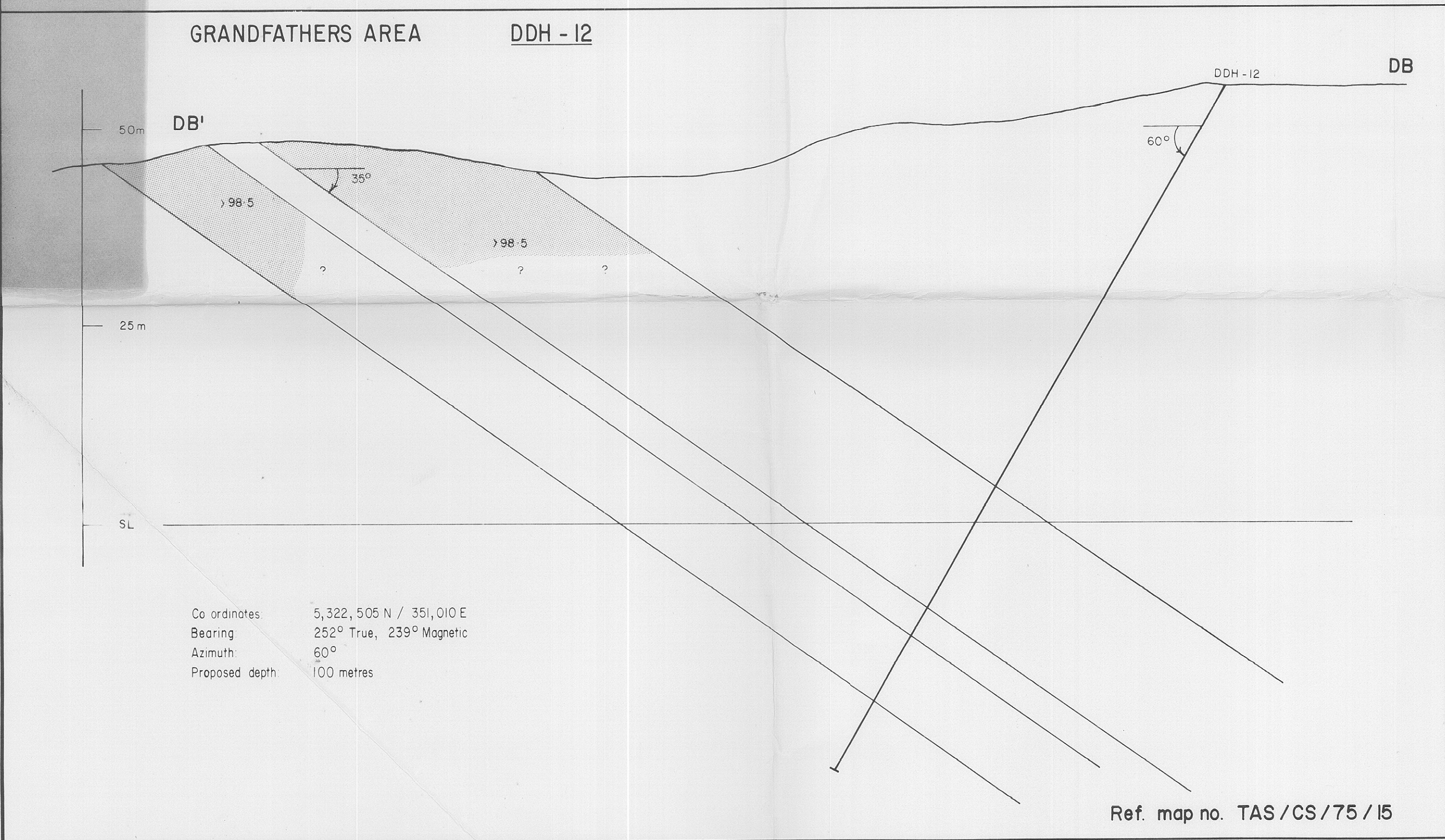
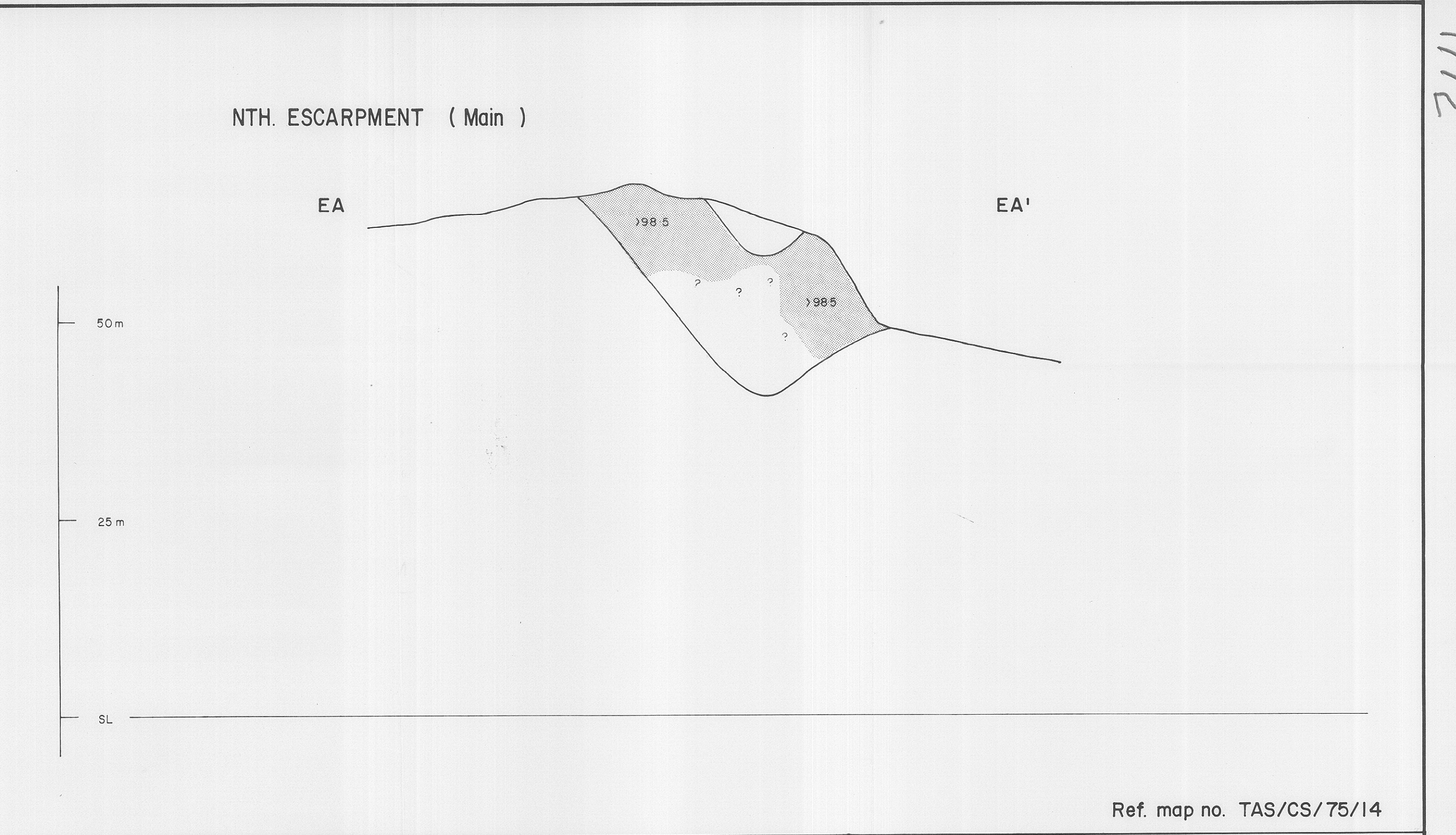
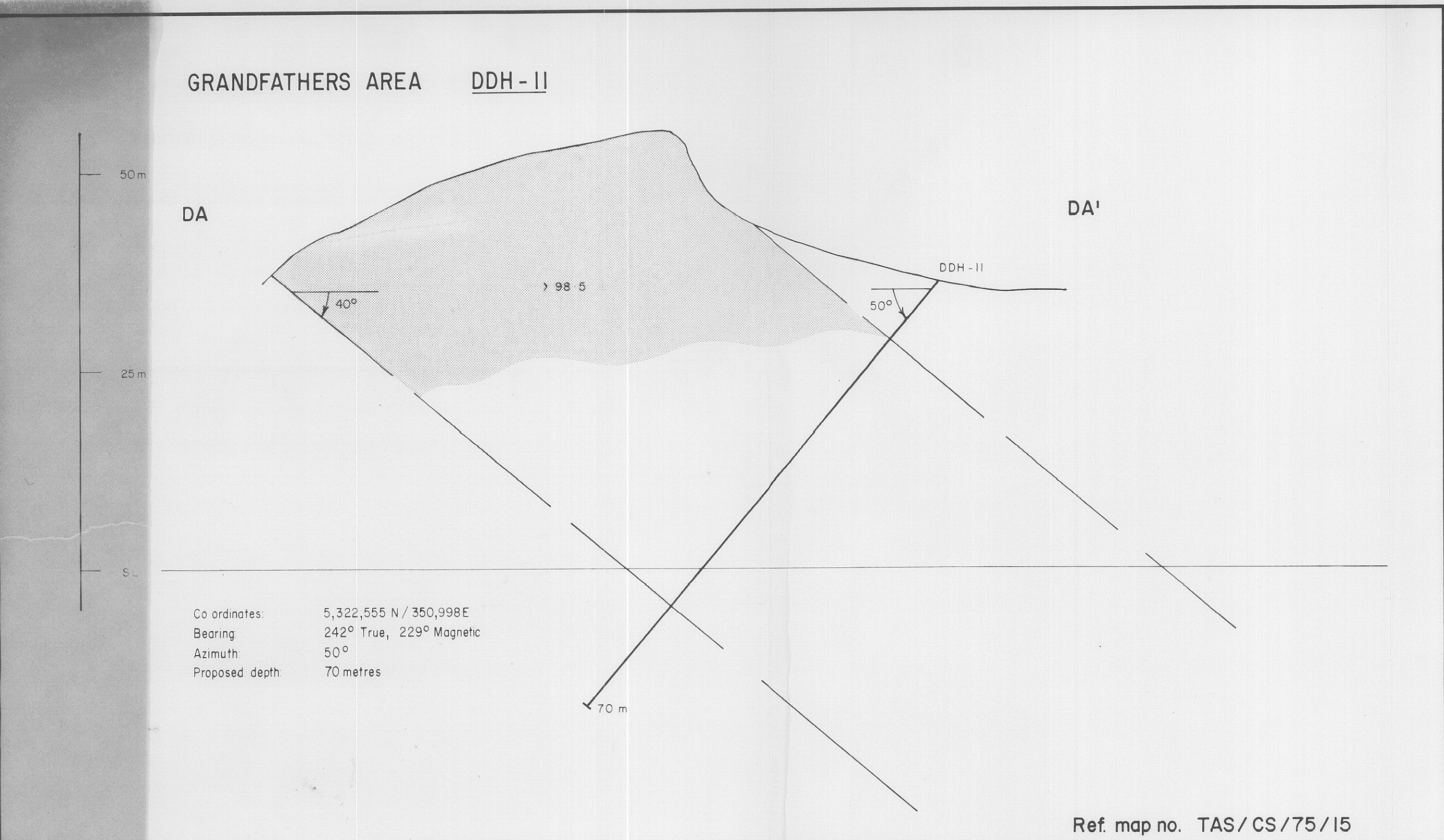


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CAPE SORELL PLANE TABLE GEOLOGICAL MAP MT. OBVIOUS AREA		
Compiled: I.D. Picken	Revised:	Drawn: S. Hutchison
Date: January, 1975	Scale: 1:500	Drg. No. TAS / CS / 75 / 13



COMALCO LIMITED		
CAPE SORELL PLANE TABLE GEOLOGICAL MAP NTH. ESCARPMENT AREA		
Compiled: I. D. Picken	Revised:	Drawn: S. Hutchison
Date: January, 1975	Scale: 1:500	Dwg. No: TAS / CS / 75 / 14





COMALCO LIMITED		
CROSS SECTIONS AS MARKED ON GEOLOGICAL PLANE TABLE MAPS TAS/CS/75/12 to 15 INCLUSIVE		
Compiled: I. D. Picken	Revised:	Drawn: S. Hutchison
Date: April, 1975	Scale: 1:300	Org. No. Tas / CS/75/18