AAC

PROJECT NAME:

TITLE: SOUTH ESK

MONTHLY PROGRESS REPORT - JANUARY 1981

EXPLORATION LICENCE 22/80 TASMANIA

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: Cornwall, Fingal; SK 55-4 Launceston 5 400 000mN, 580 000mE

COMMODITY/IES: Gold

TEXT PAGES NO: 2

PLAN NOS: TAS-9-4, TAS-9-5, TAS-9-9

TABLE NOS: -

APPENDICES: One

AUTHOR/S: B. McBride

DATE: 25th February 1981

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

001

SOUTH ESK

PROGRESS REPORT - JANUARY 1981

EXPLORATION LICENCE 22/80 TASMANIA

1. INTRODUCTION

Drill sampling of the alluvial material in the South Esk River valley commenced on 8th January 1981. Four (4) holes were completed and a fifth was in progress at month end.

The Field Progress Report for January 1981 is attached as Appendix I. It includes partially completed drill hole logs. Further, and better quality, copies of drill hole logs will be included in future monthly Progress Reports as extra data become available.

2. TENEMENT

Exploration Licence 22/80 was issued to 28th February 1981 to Australian Anglo American Services Limited, nominee of Australian Anglo American Searches Proprietary Limited.

It encompasses 258 square kilometres of land in the Land District of Cornwall, vicinity of Fingal.

The area is described as commencing at the Posted Notice situate at the south-west angle of the area whose grid co-ordinates are 577 000 metres E, 5 390 200 metres N, thence grid north to 5 410 000 metres N, grid east to 590 000 metres E, grid south to 5 390 200 metres N, aforesaid thence grid west to the point of commencement.

Plan TAS-9-4 shows the location of the licence.

3. WORK ACCOMPLISHED

Drillhole positions A1-A2, B1-B5, C1-C5, D1-D3 and E1-E8 were located by tape, compass and abney level survey. Additional holes will be likewise located as and when necessary - see Plan TAS-9-9. Drilling commenced in the valley on the western side of the river and will continue there until the proposed holes, including the complete drill line E, are completed. The drill will then be moved back into the north of the area onto the eastern side of the river to complete the proposed drill sampling programme. This drilling schedule was adopted because of access difficulties to the east of the river.

...2.

The following drillholes were completed:-

A1, A2, B4 and B5

Hole B2 was commenced.
Details of the holes are included in Appendix I.
Concentrates panned from the recovered samples have been forwarded for analysis.
No results are yet at hand.

4. FORWARD WORK PROGRAMME

Complete the proposed Stage 1 drill sampling programme.

B. McBride
Chief Divisional Geologist

Approved by

R. J. Kernick
EXPLORATION MANAGER

003

I, OSVALDO TIBURCIO FILOMENO FONSECA of 56 Partridge Crescent, Frankston in the State of Victoria, Accountant DO SOLEMNLY AND SINCERELY DECLARE as as follows:

1. That the details of our work during the month ended 31 January 1981 on Exploration Licence No. 22/80 are described in the accompanying report.

2. That in the month of January 1981 we have expended $10 920 on work on Exploration Licence No.22/80 and that this is further broken down into:

	$
(a) Salaries and wages, including technical services	6 776
(b) Contractors, plant, drilling etc.	-
(c) Management, accounting and Secretarial	1 781
(d) Field expenses, meals, accommodation	1 718
(e) Tenement costs	195
(f) Capital expenditure	450
	$10 920

3. That total expenditure upon the Exploration Licence 22/80 to 31 January 1981 is $26 673.

AND I MAKE this solemn Declaration conscientiously believing the same to be true and by virtue of the provisions of an Act of the Parliament of Victoria rendering persons making a false declaration punishable for wilful and corrupt perjury.

DECLARED AT Melbourne)
)
in the State of Victoria) O. Fonseca
)
this 26th day of)
)
February 1981)

Before me:

A Commissioner for taking Declarations and Affidavits under the Evidence Act 1958.

AUSTRALIAN ANGLO AMERICAN LIMITED

SOUTH ESK PROJECT

TASMANIA EL 22/80

FIELD PROGRESS REPORT - JANUARY 1981

1. SUMMARY

Ground magnetic surveying was continued on 22-24th December. Lines A and B were extended and lines B1, D, E, F, G and H were surveyed. Drilling commenced on 8th January. Prior to this the drillhole positions were located by a tape, compass and abney level survey. Drillholes A1, A2, B5 and B4 have been completed, and hole B2 has commenced.

2. GROUND MAGNETICS (Plans TAS-9-7, TAS-9-8)

A total of 9545m over 8 lines were surveyed and ground magnetic readings taken at 25m intervals.

2.1 Line A was extended from 0100SW to 1000SW at a bearing of 230° (magnetic). The results showed some minor anomalies, however it is felt that these do not relate to any dolerite occurrences.

2.2 Line B was extended from 1000NW to the southeast (bearing 320° magnetic), to intersect at 0000NW with line A; and extended from 4000NW to 4300NW bearing 320° (magnetic) then to 4850NW bearing 300°.

Anomalous results in the region of 4000NW are restricted to small zones within the dolerite outcrop. Check readings around the outcrop showed wide variations over distances of <0.5m. These variations occur only within this outcrop. Check readings over other outcrops in the vicinity do not show such high or low readings.

The extension from 1000NW to 0000NW was offset 100m to the NE from 1000NW. No anomalous results occurred in this section of the survey.

2.3 Line B1 was surveyed from station 0850NW on line B at 085° (magnetic) over 420m. Readings were taken at 20m intervals. Anomalous readings occurred in the vicinity of dolerite float at 120m and 160m.

...2.

2.4 Line D This line commenced at station 4850NW on line B. Readings were taken at 25m intervals over a distance of 550m bearing 230° (magnetic), and over a distance of 1400m bearing 055° (magnetic). Anomalous readings occurred at stations 1225 and 1250NE. These were in the vicinity of dolerite outcrops.

2.5 Line E This line commenced at the termination of line D (station 1400NE) bearing 160° (magnetic). Readings were taken at 25m intervals over a distance of 950m. Some anomalous readings occurred in the vicinity of small dolerite outcrops.

2.6 Line F This line commenced about 1.5km north west of the Evercreech and St. Helens turnoff. The line was surveyed at 345° (magnetic) over 925m. Readings were taken at 25m intervals. Some anomalous readings occurred but these could not be related to bedrock due to the heavy alluvial cover.

2.7 Line G is located approximately 1.5km south of the Evercreech and St. Helens turnoff bearing 055° (magnetic) over 600m, and 075° (magnetic) over 925m, terminating on the river bank. Readings were taken at 25m intervals. Although the survey crossed Mathinna Beds, terrace material and Recent gravel beds, the results showed very little variation.

2.8 Line H is located about 3km north of Malahide homestead, bearing 095° (magnetic) over 1625m. It commences on high level terraces and terminates on the river bank. Readings were taken at 25m intervals. Results over the high level terraces showed some variation, and an anomalous reading at 1350E may reflect changes in bedrock or an old river channel.

2.9 Discussion

Variations in the ground magnetic readings do not appear to define subsurface dolerite occurrences. This may indicate either that there is no dolerite below the alluvium or that the alluvium masks the magnetic response of the dolerite, and though some dolerite gave anomalous ground magnetic responses the dolerite was readily apparent.

3. SURVEYING

Drillholes A1 to A2; B1 to B5; C1 to C5; D1 to D3 and E1 to E8 were positioned with a tape compass and abney level survey.

...3.

Holes A1 and A2 were positioned on a line bearing 344° (magnetic) from a point 160m south east of the Mathinna 3 mile post. A1 is situated 275m from the road, and A2 is 400m from A1.

Holes B1 to B5 are located on a line approximately 250m south of the Evercreech - St. Helens turnoff, bearing 075° (magnetic). B1 is located 200m west of the road, and B2 200m east of the road. B3, B4 and B5 are located at 400m 145m and 255m intervals respectively at 075° (magnetic) from B2.

Holes C1 and C2 are located on a line bearing 227° (magnetic) on the west side of the road, and approximately 2km south of line B. C2 is located 200m from the road, and C1 is 400m from C2. Hole C3 is located 200m to the east of the road and holes C4 and C5 at 400m intervals from C3 bearing 053° (magnetic).

Holes D1 to D3 are all located east of the road on a line approximately 4.75 km south of line C. Hole D1 is positioned 100m from the road, bearing 098°, and holes D2 and D3 located at 400m intervals from D1.

Holes E1 to E8 were positioned approximately 6 km south of line D. Holes E1 and E2 are located on the west side of the road, bearing 255° (magnetic), E2 being 200m from the road, and E1 400m west of E2. Hole E3 is located 200m east of the road, on a bearing of 075° (magnetic). Holes E4 and E5 are located at 400m and 800m respectively from E3 on the same bearing. E6 is approximately 550m from E5 on the east bank of the South Esk River, and holes E7 and E8 at 400m and 800m respectively from E6.

4. DRILLING

Four drillholes have been completed, and a fifth drilled to 9m.

4.1 Hole B5 Drilling commenced on 8.1.81 at hole B5 which was offset 5.9m bearing 140° (magnetic) from the surveyed position. The hole was completed on 9.1.81 at 4.0m in Mathinna Beds (conglomerate). Material intersected in the hole was predominantly boulders and gravels to 3.0m. The hole bottomed in a conglomerate of quartz and sandstone cobbles in a greygreen siliceous matrix. The hole was cored through boulders and gravels from 0.5m to 1.7m, and from 3.0 to 4.0m in Mathinna conglomerate.

Sediment samples were taken at the end of 0.75m, 1.7m and 3.5m. The weight and volume of all samples was recorded. Clays and gravels were panned off and the heavy concentrates retained for analysis.

...4.

4.2 Hole B4 commenced on 9.1.81 in ochre clayey sands. Some gravel was intersected between 1.4 and 2.4m. The remainder of the hole intersected dark grey clay and mud, with chips of sandstone and shale between 3.9 and 5.6m. The hole was cored from 5.6 to 6.0m, and completed in Mathinna shales on 10.1.81.

Sampling procedure was the same as for hole B5. One or two colours of gold were noticed in the sample from 2.4 - 3.9m.

4.3 Hole A2 commenced on 13.1.81. Several intersections occurred of coarse sands and gravels, with clay becoming more predominent below 5.0m. Below 8.5m the clays had a minor sand component and were generally dark grey to black. Bedrock was indicated at about 17.0m by quartz and shale chips. Core from 17.4 to 17.9m is black to grey-green shale with minor quartz veining. The hole was completed on 16.1.81.

4.4 Hole A1 commenced on 17.1.81 in brown muddy sands. Sandy gravels occurred to about 4.0m where clayey sands were encountered with minor intersections of gravel. At about 10.5m, quartz and shale chips were encountered, and the hole was cored from 11.0 to 11.5m, but no material was recovered. The section was then drilled and cased. Drilling continued to 18.5m, and several intersections of quartz and shale chips occurred in grey clays. The hole was cored from 18.5 to 19.0m. Weathered grey-green shale and clay was recovered. The hole was completed on 19.1.81.

Samples from holes A1 and A2 were taken at 1m intervals and then treated like those from B4 and B5. No gold was seen in any of the samples.

4.5 Hole B2 commenced on 20.1.81. Logs for this hole will be included in the report for February.

4.6 Comments

Delays to drilling have been caused by lack of casing shoes, pump failures and water supply problems. However most of the problems now appear to have been overcome.

Sample treatment has been by panning only. Samples have been fairly small and the gravel content low, so the rocker-box has not yet been used in treatment.

5. FUTURE PROGRAMME

5.1 Drilling is continuing with hole B2. Hole B1, and then holes C1-5 will be drilled.

...5.

5.2 Check samples will be taken from each hole both for size analysis and as a check against the panned concentrates.

5.3 Sample treatment is to include washing off the clay fraction and weighing the remaining sand and gravel before the sample is panned for the heavy concentrate.

5.4 Panned concentrates from holes A1, A2, B4 and B5 will be despatched for analysis.

S. Douglas

30.1.81

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: EL. 22/80 AREA: SOUTH ESK STATE: TASMANIA SHEET 1/4

Bore no.: A1 Commenced time: 9.30 AM Date: 17.1.81 Machine: CONCO Casing shoe diameter:

Off-set: Completed time: 12.30 PM Date: 19.1.81 Foreman panner: Supervisor:

Collar level:

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL (1000 lbs. cu.m.) section	THEORETICAL VOL (1000 lbs. cu.m.) cum	ACTUAL VOLUME section (1000 lbs cu.m.)	ACTUAL VOLUME cum. (1000 lbs cu.m.)	ACTUAL VOLUME section vol. rec.(%)	WT OF MATERIALS (Kg.)	WT.(%) SANDS/GRAVELS +10 mm	WT.(%) SANDS/GRAVELS -10 m + 20 #	WT.(%) SANDS/GRAVELS -20 #	WT.(%) CLAY	FIELD CONCENTRATE actual wt (g.) recovd.	FIELD CONCENTRATE wt. (g.) per cu.m.	FIELD CONCENTRATE metre-gram	FIELD CONCENTRATE cum. metre-gram	FIELD CONCENTRATE prog. wt.(g.) per cu. m.	REMARKS
0-1	1m	Brown medium grained to v. coarse then colour changing gravels incl. quartz, feldspar & Sandstone				6.0													Cased only. All material flushed through casing
1-2	1m	Ochre sand, gravels with brown mottled patches of quartz, clay & Sandstone				7.0													Cased only
2-3	1	Ochre sandy gravels with quartz & sandstone chips.				5.0													Terminated then cased
3-4	1	" "				5.5													Water loss at ~ 3.5m ? ch water source
4-5		Khaki clayey sand				7.0													
5-6		Khaki clayey sand & silt.				4.5													Terminated then cased

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: _____ AREA: _____ STATE: _____

Bore no.: A1 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter _____

Off-set: _____ Completed time: _____ Date: _____ Foreman panner _____ Supervisor: _____

Collar level: _____

DEPTH (m.)	THICKNESS (m.)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL (1000 ths. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (Kg.)	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum.	section (1000 ths. cu.m.)	cum. (1000 ths. cu.m.)	section vol. rec. (%)		SANDS / GRAVELS			CLAY	actual wt. (g.) recovd.	wt. (g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g.) per cu. m.	
										+10 mm	-10 m +20 #	-20 #							
6-7	1	Pale ochre clayey brown quartzrich sands & silts				5.0													Drained flow cored.
7-8	1	Grey brown muddy sands				7.0													
8-9	1	Grey brown sandy mud.				6.0													
9-10		Grey brown sandy mud				7.0													
10-11		Grey clay, black clayey sand. Some quartz chips at ~10.8 m.				5.0													
11- 12		Quartz & black rock chips with grey clay & black sand				6 =													Cored 11.0-11.5 but no water entry. Bottle fractured & ruined

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

011

3/4

PROSPECT: _____ AREA: _____ STATE: _____

Bore no.: A1 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter _____

Off-set: _____ Completed time: _____ Date: _____ Foreman panner _____ Supervisor: _____

Collar level: _____

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000 lbs. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (Kg.)	WT.(%)				FIELD CONCENTRATE					REMARKS
				section	cum.	section (1000 lbs. cu.m.)	cum. (1000 lbs. cu.m.)	section vol. rec.(%)		SANDS/GRAVELS			CLAY	actual wt.(g.) recovd.	wt.(g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt.(g.) per cu. m.	
										+10 mm.	-10 m +20 #	-20 #							
12-	1	Small shale & quartz				12.0													
13		chips some quartz																	
		gravel & grey clay																	
13-	1	" " "				4.0													
14																			
14-	1	Some small shale				6.0													
15		chips. Predominantly																	
		grey clay.																	
15-	1	Predominantly grey				7.0													
16		clay with quartz chips																	
16-		Grey clayey silts				6.0													
17																			
17-		4-5 cm of quartz chips				8.0													
18		4 cm grey clay,																	
		2-3 cm quartz chips																	

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

012
4/4

PROSPECT: _____ AREA: _____ STATE: _____

Bore no.: A1 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____

Off-set: _____ Completed time: _____ Date: _____ Foreman panner: _____ Supervisor: _____

Collar level: _____

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL (1000 lbs. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (Kg.)	WT(%)				FIELD CONCENTRATE					REMARKS
				section	cum	section (1000 lbs. cu.m.)	cum (1000 lbs. cu.m.)	section vol. rec.(%)		SANDS/GRAVELS +10 mm	SANDS/GRAVELS -10 m +20 #	SANDS/GRAVELS -20 #	CLAY	actual wt.(g) recovd.	wt.(g) per cu.m.	metre-gram	cum metre-gram	prog. wt.(g) per cu. m.	
17-18		grey clay & sand.																	
(cont)		At ~17.9m. - fine																	
		quartz chips & black																	
		shale chips																	
18-		Black shale &				3.5													Treated, not cased
18.5		quartz chips																	
18.5-		Grey clay & quartz																	Cored. Poor recovery
19.0		with weathered grey																	mainly clay.
		green shales																	
EOH		Silt & clays				4.5													Recovered from
																			sediment tank
																			overflow.

Bottomed / Unbottomed at 19.0 metres on Shale bedrock.

Average field grade _____ g. per cu. m.

013

987014

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

PROJECT NUMBER EL 22/80 AREA SOUTH ESK STATE TASMANIA

BORE NUMBER A1 RECORDED BY S. DOUGLAS

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg)	-10mm +20# (Kg)	-20# (Kg)	
0-1	11.6				
1-2	14.0				
2-3	7.8				
3-4	12.8				
4-5	11.7				
5-6	6.6				
6-7	9.6				
7-8	13.5				
8-9	10.4				
9-10	12.5				
10-11	9.8				
11-12	11.2				
12-13	24.0				
13-14	8.5				
14-15	11.5				
15-16	12.2				
16-17	11.9				
17-18	15.8				
18-18.5	6.5				
18.5-19.0	2.0				
EOH SILTS/CLAYS	8.5				

014

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: EL 22/80 AREA: SOUTH ESK STATE: TASMANIA

Bore no.: A2 Commenced time: 11:00 AM Date: 13.1.81 Machine: CEMCO 210B Casing shoe diameter: 9.0 cm. Extended 7.5 cm Internal. SHEET 1/4

Off-set: _____ Completed time: _____ Date: _____ Foreman panner: _____ Supervisor: _____

Collar level: _____

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL (1000 lbs. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (Kg.)	WT(%)				FIELD CONCENTRATE					REMARKS
				section	cum	section (1000 lbs. cu.m.)	cum. (1000 lbs. cu.m.)	section vol. rec.(%)		SANDS/GRAVELS +10 mm	SANDS/GRAVELS -10 m +20 #	SANDS/GRAVELS -20 #	CLAY	actual wt.(g) recovd.	wt.(g) per cu.m.	metre-gram	cum. metre-gram	prog. wt.(g) per cu. m.	
0-1m	1m	Dark brown muddy sands incl. mudrock, gtz				1.0													Cased only. All material washed out during casing
1.0-		Khaki muddy																	
2.0	1m	sands - medium to fine grained - incl. muscovite & quartz mud &				5.5													" " "
2.0	1.03	Orange brown gtz sands. Chips of				11.0													Cased to 3.0m then tricored to 3.03m.
-3.03		dolerite at 2.35m																	
		then quartz sands & orange brown muds, then khaki muddy sands																	
3.03	0.97	Khaki muddy sands				9.0													Tricored to 4.0m then cased.
-4.0		with some gravel.																	
4.0-		Dolerite & quartz				6.0													Tricored then
5.0	1.0	chips yellow brown																	cased.
		clay & sands (cut).																	

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: _____ AREA: _____ STATE: _____

Bore no.: A2 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter _____

Off-set: _____ Completed time: _____ Date: _____ Foreman panner: _____ Supervisor: _____

Collar level: _____

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL (1000 lbs. cu.m.)		ACTUAL VOLUME			WT. OF MATERIALS (Kg.)	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum.	section (1000 lbs. cu.m.)	cum. (1000 lbs. cu.m.)	section vol. rec. (%)		SANDS/GRAVELS + 10 mm	SANDS/GRAVELS - 10 m + 20 #	SANDS/GRAVELS - 20 #	CLAY	actual wt. (g.) recovd.	wt. (g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g.) per cu. m.	
4·0 -		Blue-grey clay																	
5·0 (cont)		Blue-grey muddy																	
		sands with some																	
		gravel & clubs.																	
5·0 -	1m.	Blue-grey micaceous				5·5													Cased then treated
6·0		sandy clay with																	
		some coarse sands																	
6·0 -		Blue-grey sandy				8·0													Treated then
7·0m	1m	clay, yellow/tan/lake																	cased.
		then ochre/khaki																	
		muddy sand.																	
7·0 -		Black sandy clay				5·5													Treated then cased
8·0m		Brown-grey clay																	
8·0 -	0·5	yellow-black				6·5													Hole recased.
8·5		clayey sands																	Washed out 0·5m
8·5 -		Black clayey				[2·5[1]													Treated then
9·5	1m.	sand.				[3·5[2]													cased - sampled
9·5 -		Dark grey clayey				3·0													separately
10·5	1m.	sands - very fine																	Cased only - old
		grained.																	material washed out

1 Drilled
2 Cased

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

016

3/4

PROSPECT: _____ AREA: _____ STATE: _____

Bore no: A 2 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____

Off-set: _____ Completed time: _____ Date: _____ Foreman panner: _____ Supervisor: _____

Collar level: _____

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL (1000 lbs. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (Kg.)	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum	section (1000 lbs. cu.m.)	cum (1000 lbs. cu.m.)	section vol. rec. (%)		SANDS/GRAVELS +10 mm	SANDS/GRAVELS -10 m +20 #	SANDS/GRAVELS -20 #	CLAY	actual wt. (g.) recovd.	wt. (g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g.) per cu. m.	
10·5	1m	Black clayey sand				12·5													Tr coned then cased.
11·5																			
11·5																			
12·5	1m	Black clayey sand				3·0													Cased then tr coned.
12·5		Fine grey-black				4·5													Tr coned then cased
13·5	1m	Sandy clay																	
13·5		Grey-black sandy				4·5													" "
14·5	1m	clay.																	
14·5																			
15·5	1m	" " "				2·0													" "
15·5																			
16·5	1m	Grey-black sandy clay																	
		with minor fine gravels				3·5													
~~16·5~~		& stone pts chips																	
16·5	1m	Quartz & black chips				2·5													
17·4		with grey sandy																	
		clay																	
17·4	0·5m	Black-grey pyroclastic																	Cuttings only.
17·9		with minor thin ins.																	
		Shattered at ~17·85m.																	

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

017

4/4

PROSPECT: _____ AREA: _____ STATE: _____

Bore no.: A2 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____

Off-set: _____ Completed time: _____ Date: _____ Foreman, panner: _____ Supervisor: _____

Collar level: _____

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL (1000 ths. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (Kg.)	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum	section (1000 ths. cu.m.)	cum. (1000 ths. cu.m.)	section vol. rec. (%)		SANDS/GRAVELS			CLAY	actual wt. (g.) recovd.	wt. (g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g.) per cu. m.	
										+10 mm.	-10 m +20 #	-20 #							
EOH		Silts & clays.				60													Collected from overflow tray in sediment cyclone

Bottomed / Unbottomed at 17.9 metres on Shale bedrock

Average field grade _____ g. per cu. m.

018

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

987019

PROJECT NUMBER. EL 22/80. AREA. ~~[illegible]~~ SOUTH ESK STATE. TASMANIA.

BORE NUMBER. A2. RECORDED BY. S. DUGGAN.

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg)	-10mm +20# (Kg)	-20# (Kg)	
0-1 m	2.2				
1-2	9.8				
2-3.03	19.6				
3.03-4.0	16.9				
4.0-5.0	11.1				
5.0-6.0	9.8				
6.0-7.0	15.0				
7.0-8.0	10.3				
8.0-8.5	13.4				
8.5-9.5 (Drilled only)	4.8				
8.5-9.5 (Cased)	4.6				
9.5-10.5	5.2				
10.5-11.5	24.2				
11.5-12.5	4.8				
12.5-13.5	8.8				
13.5-14.5	9.0				
14.5-15.5	3.4				
15.5-16.5	6.0				
16.5-17.4	4.4				
17.4-17.9	2.2				
EOH SILTSTONES	10.8				

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: EL 22/80 AREA: South Esk STATE: TASMANIA

019

Bore no.: B4 Commenced time: 4:30 PM Date: 9·1·81 Machine: GEMCO D10B Casing shoe diameter: _____

Off-set: _____ Completed time: 1:00 PM Date: 10·1·81 Foreman panner: _____ Supervisor: _____

Collar level: _____

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL (1000ths cu.m.) section	THEORETICAL VOL (1000ths cu.m.) cum	ACTUAL VOLUME section (1000ths cu.m)	ACTUAL VOLUME cum (1000ths cu.m.)	ACTUAL VOLUME section vol. rec.(%)	WT OF MATERIALS (Kg.)	WT(%) SANDS/GRAVELS +10 mm	WT(%) SANDS/GRAVELS -10 m +20 #	WT(%) SANDS/GRAVELS -20#	WT(%) CLAY	FIELD CONCENTRATE actual wt. (g) record.	FIELD CONCENTRATE wt. (g) per cu. m.	FIELD CONCENTRATE metre-gram	FIELD CONCENTRATE cum. metre-gram	FIELD CONCENTRATE prog. wt. (g) per cu. m.	REMARKS
0.0 –	1.4	Ochre clayey sand,				1.5													May have been
1.4		fine grained.																	sediment loss with
																			water escaping
																			before reaching
																			sediment tank
1.4 –	1.0	Some siderite				5.0													
2.4		chips & quartz																	
		gravel. Mainly																	
		dark grey clayey																	
		mud																	
2.4 –	1.5	~~Same~~ Dark grey				8.0													
3.9		clayey mud																	
3.9 –	1.7	Chips of fine grained				3.0													
5.6		Sandstone & Shale																	
		in Yellow-brown clay																	
5.6 –	0.4	Fine grained silt-																	Core only
6.0		Stone. Mathinna																	
		Beds																	
EOH		Muds & Silt - yellow - brown				1.0.													

Bottomed / Unbottomed at 6.0 metres on Mathinna Siltstone bedrock

Average field grade _____ g. per cu. m.

020

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD. 987021

PROJECT NUMBER. EL. 22/80. AREA. SOUTH ESK.. STATE. TASMANIA.

BORE NUMBER....B4..... RECORDED BY...S.M.Douglas....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg)	-10mm +20# (Kg)	-20# (Kg)	
0 - 1.4	2.6 kg				
1.4 - 2.4	9.3 kg				
2.4 - 3.9	13.2				
3.9 - 5.6	4.5				
5.6 - 6.0					
EOH. SILTS	0.85				

2

AUSTRALIAN ANGLO AMERICAN LIMITED

021

PROSPECT: EL 22/80 AREA: SOUTH ESK STATE: TASMANIA

core diameter
0.05m Intend
0.07m Extend.

Bore no.: B-5 Commenced time: 3 00 PM Date: 8-1-81 Machine: GEMCO 2108 Casing shoe diameter: _____

Off-set: _____ Completed time: 1.45 PM Date: 9-1-81 Foreman, panner: _____ Supervisor: _____

Collar level: _____

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000 ths. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (Kg.)	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum.	section (1000ths cu.m.)	cum. (1000ths cu.m.)	section vol. rec.(%)		SANDS/GRAVELS			CLAY	actual wt (g) record.	wt (g) per cu.m.	metre-gram	cum. metre-gram	prog. wt.(g) per cu. m.	
										+10 mm	-10 m +20 #	-20#							
0-0.7	0.75	Fine gravelly sands & dolerite boulders				10.0													Trenched then cored through
																			boulders
0.75		Sandstone & Quartz gravel & chips				6.5													Gravels cored.
-1.7	0.95	with some dolerite																	
1.7 -		Quartz & sandstone				9.5													Trenched then
3.5	1.8	gravels. Conglomerate																	cored from 3.0-3.5
		core																	
3.5 -	0.5	Mathinna Bed				—													
4.0		conglomerate Large quartz & sandstone cobbles in grey-green siliceous matrix.																	Cored only.

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

08102202

022

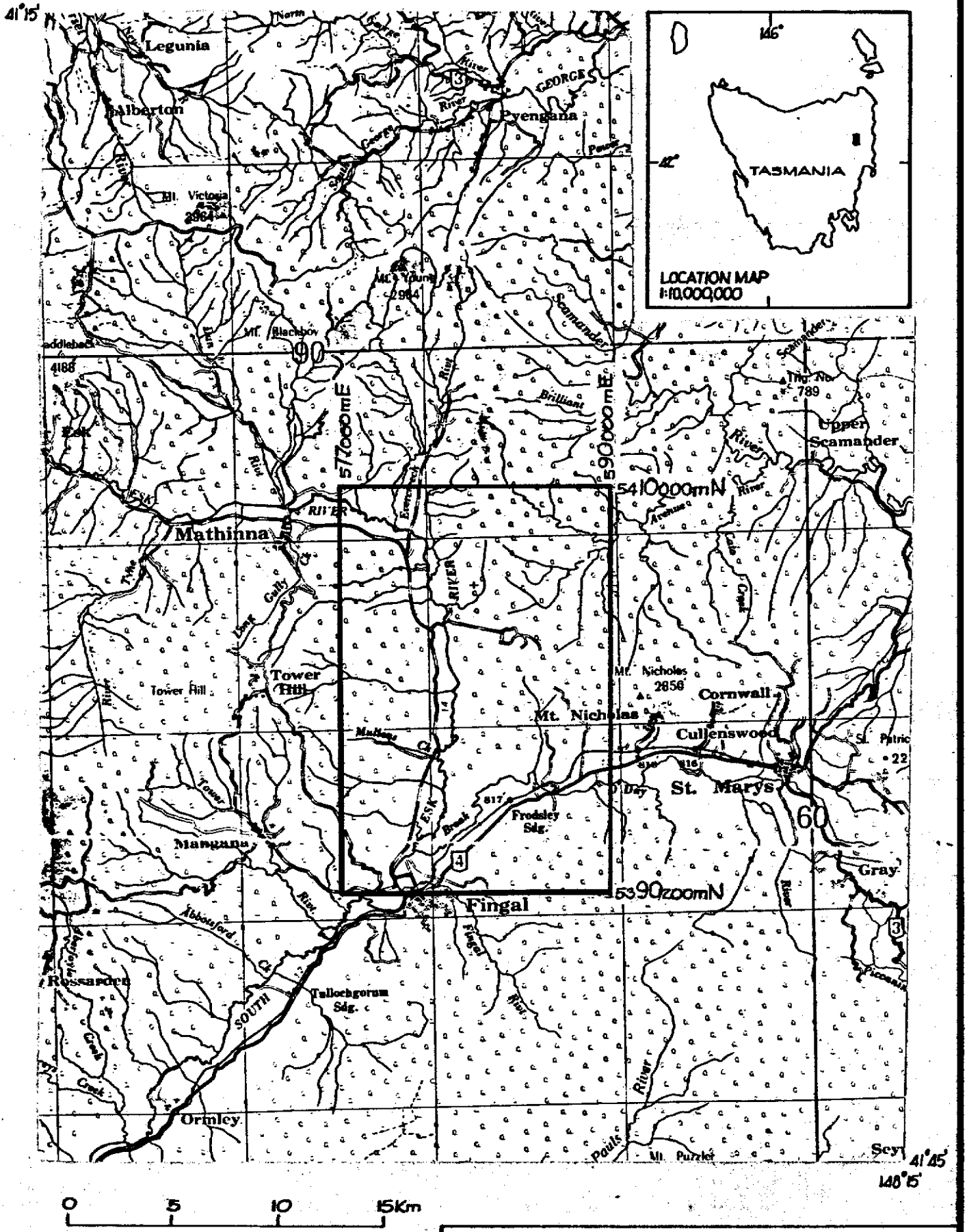
AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

987023

PROJECT NUMBER E.L. 22/80 AREA SOUTH ESK. STATE TASMANIA.

BORE NUMBER B.5 RECORDED BY S.M. Douglas

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg)	-10mm +20# (Kg)	-20# (Kg)	
0 - 0.75m	0.8 kg.				
0.75 - 1.7	15.6 kg	2.8			
1.7 - 3.5	16.85kg.				
3.5 - 4.0	1.8kg				



AUSTRALIAN ANGLO AMERICAN LIMITED

SOUTH ESK PROJECT
EL 22/80 - TASMANIA

LOCATION MAP

COMPILED	DRAWN	SCALE	
MPE	HD 4/80	1:250,000	TAS-9-4

AUSTRALIAN ANGLO AMERICAN LTD	
PROJECT	GOLD ALLUVIALS RATS
AREA	SOUTH ESK, TAS. E.L 22/80
DATA	PHOTOGEOLOGICAL INTERPRETATION GEOLOGICAL MAPPING AND MAGNETIC TRAVERSES (black & white aerial photography - F596, 1979 - uncont mosaic.)
COMPILED	JMG + SDM 10/80 SCALE ~ 1 42 000
DRAWN	JMG 10/80 REF No TAS-9-5
AMENDED	January 1981

98T025

81-1538

024

N

R14

R15

R16

STATE FOREST

STATE FOREST

to MATHINNA

SPEERS ROAD

SOUTH ESK RIVER

BREAK O' DAY RIVER

to ST MARYS

to LAUNCESTON

MALAHIDE

FINGAL

Scared area

Line B

thin cover over M

dissected floodplain

M?/Puc

M/Puc

Puc

tc

a

M

REFERENCE

CAINOZOIC	HOLOCENE to PLEISTOCENE	a — floodplain alluvium - recent deposits of sand, gravel & clay, 'young' accumulation terrace material
		tc — slope colluvium veneer, may cover 'older' terrace material
		probable extent of dolerite
MESOZOIC	JURASSIC	dolerite: probably dyke - crosses indicate area of outcrop &/or & plug like bodies large floaters
PALAEOZOIC	PERMIAN to UPPER CARBONIFEROUS	Puc — PARMEENER SUPER GROUP glacio-marine & fresh water sediments including coal measures
	LOWER DEVONIAN to CAMBRIAN?	M — MATHINNA BEDS fine grained, cleaved, clastic sediments

- geological boundary
- photolinear - fault/fracture
- 85 — cleavage plane & dip - Mathinna Beds
- floodplain terrace level or bench - hatching towards lower portion
- boundary of cleared land - grazing &/or cultivation
- area of felled trees
- area of dissection or erosion of terrace
- gravel pit
- drainage
- settlement
- unsealed road (Mathinna road is being upgraded)
- sealed road
- railway
- property boundary
- aerial photograph centre & n°
- E.L Boundary

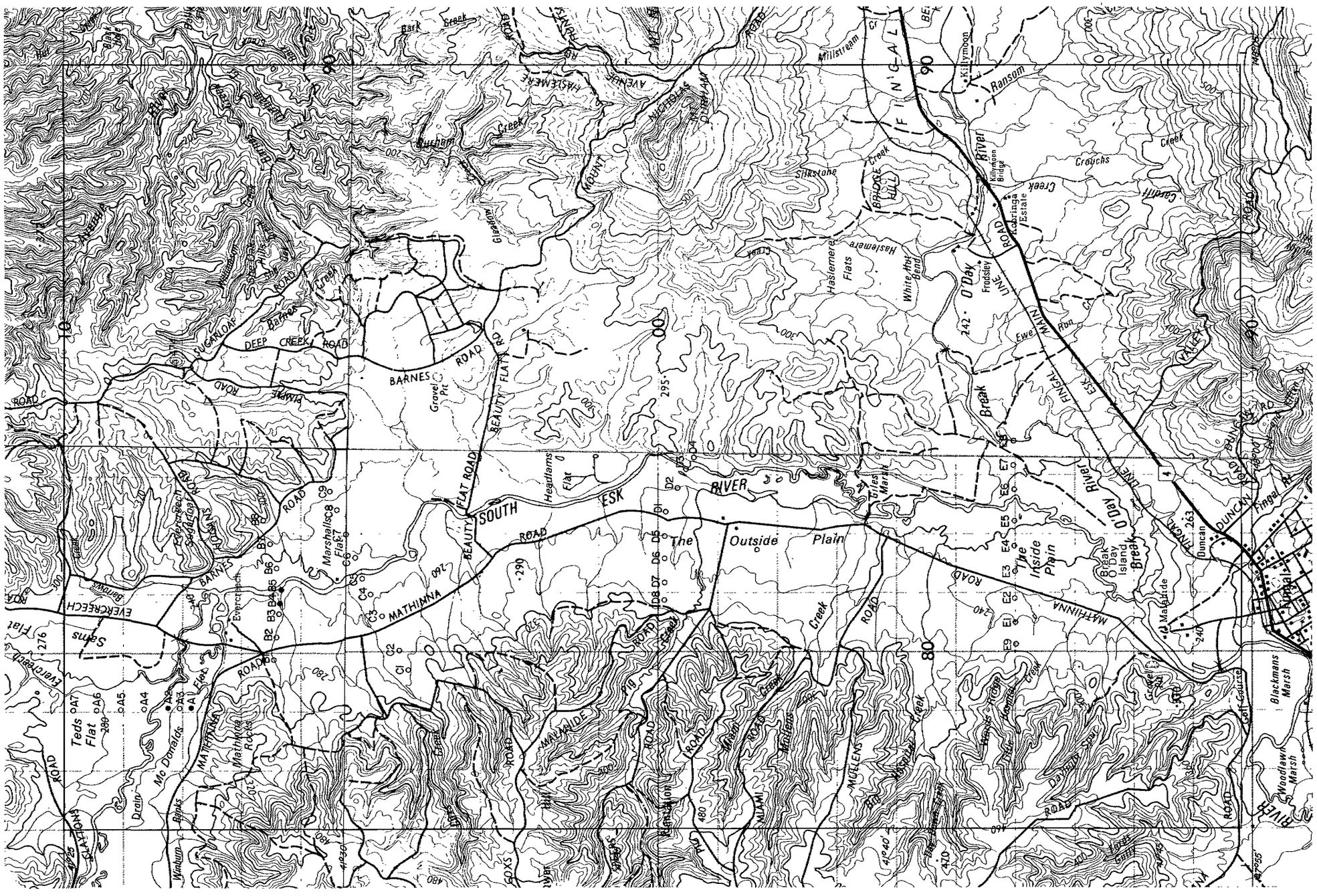
Magnetic traverses, Lines A, B, B1, D, E, F, G, H

SCALE

0 1 2 3 kms

5 cm

Aerial Photography: TAS Proj N° F596 Runs 14-16.



○A1 *Proposed drillhole location and number.*

●B1 *Completed drillhole location and number.*

5 cm

987026

AUSTRALIAN ANGLO AMERICAN LTD			
PROJECT	EXLORATION LICENCE 22/80		
AREA	SOUTH ESK, TASMANIA.		
DATA	RESEARCH & TECHNICAL SERVICES DIVISION DRILLHOLE LOCATIONS		
COMPILED	S.M. Douglas	SCALE	1 : 50000
DRAWN	L.L Feb. 1981	REF No	TAS - 9 - 9
AMENDED			

81-1538