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983001

TCR 81-1542

aac

PROJECT NAME:

TITLE: SOUTH ESK

MONTHLY PROGRESS REPORT - FEBRUARY 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: 4th March 1981

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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983002

SOUTH ESK

PROGRESS REPORT - FEBRUARY 1981

EXPLORATION LICENCE 22/80 TASMANIA

1. INTRODUCTION

Drill sampling of the alluvial material in the South Esk River valley continued. Fourteen holes were completed and a fifteenth was in progress at month end.

Samples have been despatched for analyses but no results are yet to hand.

Colours of gold were noted in panned concentrate from samples obtained from eight (8) holes.

The Field Progress Report for February 1981 is attached as an appendix. The included drillhole logs for all holes completed to date contain all data to hand to date.

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

Proposed drillhole locations for the Stage 1 sampling programme are shown on Plan TAS-9-9.

It should be noted that for various practical reasons a hole may have to be drilled elsewhere than at its proposed site. If such is the case the details are noted in the Field Progress Report as well as on the drillhole log, viz, off-set.

The fourteen holes completed during the month were as follows:-

A3; B1 and B2; C1 through C5; D1 through D3; E1 through E3.

Hole E4 was commenced.

...2.

All samples obtained to date have been panned to produce a concentrate. These are forwarded for analyses on a regular basis.

4. RESULTS ACHIEVED

Sample details are recorded on the drillhole logsheets and are discussed in the Field Progress Report - see Appendix I. It will be noted that colours of gold are recorded in concentrates from eight (8) of the eighteen (18) holes completed to date.

No analyses results are yet to hand.

5. FORWARD PROGRAMME

Complete the proposed holes on line E then return to the north of the licence to complete the proposed holes on lines B, C and D.

B. McBride
Chief Divisional Geologist
Research & Technical Services

Approved by

R. J. Kernick
Exploration Manager

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983004

SOUTH ESK PROJECT

TASMANIA EL 22/80

FIELD PROGRESS REPORT FEBRUARY 1981

1. SUMMARY

Drill sampling of the alluvials continued. Fourteen holes were drilled and sampled and samples were dispatched for analysis.

2. WORK COMPLETED

Drillholes B2 and B1 were completed and a third hole A3 drilled on line A. Five holes were drilled on line C (C1 to C5); three on line D (D1 to D3), and three on line E (E1 to E3). Drillhole E4 has commenced.

2.1 Line A

Drillhole A3 was positioned midway between A1 and A2, and offset 12.75m bearing 318° (magnets). Drilling commenced on 1.2.81 in brown muddy sands. From 1-6m, material intersected was mainly gravel and chips of quartz sandstone and dolerite, with minor intersections of clay and sand. Dark grey clays occured from 6-22m. The hole was cored from 22-23m. Black shales and laminated mudstones were recovered. No gold was seen in the panned concentrates.

2.2 Line B

Drillhole B2 which commenced on 20.1.81 was completed on 28.1.81 at 28.0m in Mathinna shales. Drilling commenced in brown sands and from 0.5m to 8.0m intersected alternating layers of clays and gravels and chips. Clays were intersected from 8.0m to 27.0m, with minor occurrences of quartz gravels and chips. Core of grey-green weathered Mathinna shales was taken from 27.0 to 28.0m. Colours of gold were noted in the 7-8m sample and in the 10-11m sample.

Drillhole B1 commenced on 29.1.81 and was offset 100m bearing 231° (Magnetic) from the surveyed position. Clays with sands and gravels were intersected from 0 to 9.0m, with clay becoming more predominant from 9.0m. The hole was completed in grey-green weathered shales at 32.0m. Colours of gold were found in the concentrate of the 5-6m sample.

...2.

2.3 Line C

Drillhole C2 was commenced on 3.2.81 offset 200m bearing 227° (magnetic), in brown sands and gravels. Ochre clays with sands and gravels were intersected from 2.0m to 9.0m. Grey clays were intersected from 9.0 to 15.0m and the hole was completed at 16.0m in weathered grey green shales.

Drill hole C1 commenced on 4.2.81 and was offset 200m bearing 227° (magnetic). The hole commenced in dark brown sands. Gravels and chips were intersected from 1.0 to 4.0m and from 4.0 to 6.0m grey clays were encountered. 1.0m of core was taken at 6.0m and weathered grey-green shales were recovered.

Drillhole C3 commenced on 5.2.81 in brown sands. Ochre clays and sands were intersected from 1.0-2.0m and gravels and chips of quartz and sandstone occured between 2.0 and 8.0m. From 8.0 to 11.0m ochre clays with minor occurrences of quartz chips were intersected. The hole was cored from 11-12m, and weathered ochre shales were recovered.

Drillhole C4 was offset 42m bearing 233° and commenced on 6.2.81. Sands and gravels were intersected to 5.0m. Ochre clays occurred from 5.0 to 6.0m and the hole was cored from 6.0 to 7.0m. Weathered grey shales were recovered. 1 colour was recovered from the 4-5m sample.

Drillhole C5 commenced on 11.2.81 offset 66.0m bearing 153° (magnetic). Brown sands were intersected from 0-1.0m and sands and gravel from 1.0-6.0m. A large dolerite boulder obstructed the drilling at 3.6m. This was cored from 3.6-4.1m. Clays were intersected from 6.0-7.0m and core was taken from 7.0-8.0m. Ochre clays and weathered shale was recovered. Colours of gold were noted in the following samples: 1-2.0m; 4.1-5.0m; 5.0-6.0m (8 colours); 6-7m.

2.4 Line D

Drillhole D1 commenced on 12.2.81 and intersected brown sands and quartz and sandstone gravels and chips from 0-1m. Gravels and chips interspersed with clays were intersected to 3.0m and ochre clays intersected from 3.0 to 5.0m. Core was taken from 5.0 to 6.0m and clays and weathered grey shales recovered. Colours of gold were noted in samples from 0-1m, 1-2m and 2-3m.

Drill hole D2 was offset 5m bearing 131° and commenced on 12.2.81. Brown sands and clays were intersected from 0-2m, and ochre and grey clays from 2-3m. Gravels and chips occured from 3-6m, with coal fragments from 5.0m. From 6.0 to 15.0m grey-black sands were intersected. These contained a large amount of coal fragments and fine grained pyrite. Gravels and quartz and dolerite chips were again intersected from 15.0 to 30.0m. These occured with grey-black sands. Core was taken from 30-31m. Pebbles of sandy conglomerate (0.2m) and grey pyritic shales (0.8m) were recovered.

...3.

Colours of gold were seen in samples from 1-2m; 4-5m (5 colours) and 7-8m.

Drillhole D3 commenced on 15.2.81. Brown sands and ochre clays were intersected to 3.0m. From 3.0m to 9.0m sands and grvels were encountered and from 9.0 to 11.0m grey clayey sands were intersected. Core was taken from 11-12m. Grey-black shale was recovered. Colours of gold were seen in samples from 1-2m and 4-5m.

2.5 Line E

Drillhole E1 commenced on 16.2.81 in brown sands and silt. Clays and gravels were intersected from 1.0 to 2.0m. From 2-13m ochre clays were intersected. The intersection from 8.0 to 9.0m was cored but no sample was recovered. Core was taken from 13.0 to 14.0m. Weathered ochre shales were recovered.

Drillhole E2 commenced on 18.2.81. This hole was offset 70.9m bearing 355° (magnetic). Brown sands were intersected from 0-1m. Coarse sands, gravels and chips of quartz sandstone and dolerite occured from 1.0-6.0m, and sandy clays from 6.0 to 10.0m. The hole was cored from 10.0-11.0m
and stiff grey clay and grey shale was recovered. Colours of gold were noted in samples from 1-2m; 2-3m; 4-5m; 5-6m (2 colours); 6-7m.

Drillhole E3 commenced on 18.2.81. Sands and clays were encountered to 2.0m and from 2.0m to 7.0m, sands gravels and chips were intersected. Sandy clays were intersected from 7.0 to 17.0m. Core was taken from 17.0 to 18.0m. Sample treatment on this hole has not yet been completed.

Drillhole E4 commenced on 20.2.81. Descriptions and logs will be included in the report for March.

3. FUTURE PROGRAMME

Drilling will continue on line E. Lines B, C and D will be extended.

S. Douglas

24.2.81

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983007

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

1. That the details of our work during the month ended 28 February 1981 on Exploration Licence No. 22/80 are described in the accompanying report.

2. That in the month of February 1981 we have expended $38 709 on work on Exploration Licence No.22/80 and that this is further broken down into:

	$
(a) Salaries and wages, including technical services	8 366
(b) Contractors,plant,drilling etc	27 017
(c) Management,accounting and Secretarial	1 949
(d) Field expenses, meals accommodation	1 377
(e) Tenement costs	-
	-
	$38 709

3. That total expenditure upon the Exploration Licence 22/80 to 28 February 1981 is $65 382.

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 19th day of)
)
March 1981)

Before me:

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

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 210B Casing shoe diameter EXT. 9.0 INT. 7.5

Off-set: — Completed time: 12.30 PM Date: 19.1.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

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) recvd.	wt. (g) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g) per cu. m.	
										+10 mm	-10 m +20 #	-20 #							
0-1	1m	Brown muddy gravels to ~ 0.5m then ochre sandy gravels incl. quartz, flint & sandstone				6.0	6.0		11.6										Cased only. All material flushed through casing
1-2	1m	Ochre sandy gravels with some small (cobbles) fragments of quartz, chert & sandstone				7.0	13.0		14.0										Cased only
2-3	1	Ochre sandy gravels with quartz & sandstone chips.				5.0	18.0		7.8										Treated thereafter
3-4	1	" "				5.5			12.8										Water loss at ~ 3.5m ? old water course.
4-5		Khaki clayey sands				7.0			11.7										
5-6		Khaki clayey sands & silt.				4.5			6.1										Treated thereafter

Bottomed / Unbottomed at 19.0 metres on Hellyers bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

003/
2/4

PROSPECT: E.L. 22/80 AREA: SOUTHESK STATE: TASMANIA

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.	
6-7	1	Pale ochre clay than brown quartz rich sands & silts				5.0			9.6										Trace of than coarse.
7-8	1	Grey brown muddy sands				7.0			13.5										
8-9	1	Grey brown sandy mud.				6.0			10.4										
9-10		Grey brown sandy mud				7.0			12.5										
10-11		Grey clay, black clayey sand. Some quartz chips at ~10.8 m.				5.0			9.8										
11-12		Quartz & black shale chips with grey clay & black sand				6.=			11.2										Cored 11.0-11.5 but no recovery. Then Tricone to end

Bottomed / Unbottomed at 19.0 metres on Mesozoic bedrock

Average field grade _____ g. per cu. m.

00086

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: E.L. 22/82 AREA: South East STATE: TASMANIA

009

3/4

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 (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 #							
12-	1	Small shale & quartz				12.0			24.0										
13.		chips some quartz																	
		gravel & grey clay																	
13-	1	" " "				4.0			8.5										
14.																			
14-	1	Some small shale				6.0			11.5										
15		chips. Predominantly																	
		grey clay.																	
15-	1	Predominantly grey				7.0			12.2										
16		clay with quartz chips																	
16-		Grey clayey silts				6.0			11.9										
17																			
17-		4-5 cm of quartz chips				8.0			15.3										
18		+ less grey clay.																	
		2-3cm quartz chips																	

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

9803010

AUSTRALIAN ANGLO AMERICAN LIMITED

010

4/4

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

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 +10 mm	SANDS/GRAVELS -10 m +20 #	SANDS/GRAVELS -20 #	CLAY	actual wt (g) record	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			6.5										Treated, not cased
18.5		quartz chips																	
18.5-		Grey clay & quartz							2.0										Cored. Poor recovery
19.0		with weathered grey																	mainly clay.
		green shales																	
EOH.		Silts & clays				4.5			8.5										Recovered from
																			sediment tank
																			overflow.

Bottomed / Unbottomed at 19.0 metres on Shale bedrock

Average field grade _____ g. per cu. m.

9930 1T

011

983012

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

PROJECT NUMBER EL 22/80 AREA SOUTH EST. 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	19.6				
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				

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: AA Commenced time: 11:00 AM Date: 13.1.81 Machine: GEMCO 210B Casing shoe diameter: 9.0 cm. External 7.5 cm Internal

Off-set: — Completed time: 1:15 PM Date: 16.1.81 Foreman/ponner: A JACKSON Supervisor: S. DOUGLAS

Collar level: SHEET 1/4

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
0-1m	1m	Dark brown muddy sands incl. muscovite, qtz				1.0			2.2										Cased only. All material washed out during casing
1.0-		Khaki muddy																	
2.0	1m	sands - medium to fine grained - incl. muscovite & quartz				5.5			7.8										" " "
2.0	1.03	Orange-brown mud & quartz sands. Chips of				11.0			19.6										Cased to 3.0m then inclined 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			16.4										Inclined to 4.0m
-4.0		with some gravel.																	then cased.
4.0-		Dolerite & quartz				6.0			11.1										Inclined then
5.0	1.0	chips. Yellow brown clay & sands (cont).																	cased.

Bottomed / Unbottomed at 17.9 metres on [illegible] bedrock.

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

013
2/4

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

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

Off-set: Completed time: Date: Foreman/ponner: Supervisor:

Collar level:

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000 tns. cu.m.)		ACTUAL VOLUME			WT. OF MATERIALS	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum.	section (1000 tns. cu.m.)	cum. (1000 tns. cu.m.)	section vol. rec. (%)	(Kg.)	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			9.8										Cased then tricned
6.0		sandy clay with																	
		some coarse sands																	
6.0-		Blue-grey sandy				8.0			15.0										Tricned then
7.0m	1m	clay, yellow/																	cased.
		then ochre/khaki																	
		muddy sand.																	
7.0-		Black sandy clay				5.5			10.3										Tricned then cased
8.0m		Brown-grey clay																	
8.0-	0.5	yellow-black				6.5			13.4										Hole recased.
8.5		clayey sands																	Washed out 0.5m
8.5-		Black clayey				2.5[1]			4.8										Tricned then
9.5	1m.	sands				3.5[2]			4.6										cased - sampled
9.5-		Dark grey clayey				3.0			5.2										separately
10.5	1m.	sands - very fine																	Cased only - all
		grained.																	material washed out.

1 Drilled
2 Cased

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

6800014

AUSTRALIAN ANGLO AMERICAN LIMITED

014

3/4

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

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 ths. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum	section (1000ths cu.m.)	cum (1000ths cu.m.)	section vol. rec.(%)	(Kg)	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			24·3										Tr coned then
11·5																			cased.
11·5																			
12·5	1m	Black clayey sands				8·0			4·8										Cased then tr coned.
12·5		Fine grey-black				4·5			8·8										Tr coned then cased
13·5	1m	Sandy clay																	
13·5		Grey-black sandy				4·5			9·0										" "
14·5	1m	clay.																	
14·5																			
15·5	1m	" " "				2·0			3·4										" "
15·5																			
16·5	1m	Grey-black Sandy clay																	
		minor with occasional gravel				3·5			6·0										
		& some qtz chips																	
16·5	1m	Quartz & shale chips				2·5			4·4										
17·4		with grey sandy																	
		clay																	
17·4	0·5m	Black-grey green shale							2·2										Core only
17·4		with minor qtz veins.																	
		Shattered at ~17·85 m.																	

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

015

4/4

PROSPECT: EL 22/80 AREA: South Esk STATE: Tasmania.

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 +10 mm	SANDS/GRAVELS -10 m + 20 #	SANDS/GRAVELS -20 #	CLAY	actual wt (g) recvd.	wt (g) per cu.m.	metre-gram	cum. metre-gram	prog. wt (g) per cu. m.	
EOH		Silts & clays.				6.0			10.8										Collected from overflow tray in sediment catcher

Bottomed / Unbottomed at 17.9 metres on Shale bedrock.

Average field grade _____ g. per cu. m.

016

983017

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER. A2. RECORDED BY. S. DOUGLAS.

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 SILTS & CLAYS	10·8				

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: A3 Commenced time: 7.30 AM Date: 1.2.81 Machine: GEMCO 210B Casing shoe diameter: External 9.0 cm. Internal 7.5 cm.

Off-set: 12.75 M rds 318° Completed time: 4.15 PM Date: 2.2.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS.

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 +10 mm	SANDS/GRAVELS -10 m +20 #	SANDS/GRAVELS -20 #	CLAY	actual wt. (g) record.	wt. (g) per cu. m.	metre-gram	cum. metre-gram	prog. wt. (g) per cu. m.	
0-1	1	Brown muddy sands				8.0	8.0		11.1										Cased only
1-2	1	Brown-khaki clays with sand & gravel & chips of quartz				8.5	16.5		14.7										Drilled then cased
2-3	1	Quartz sands & gravel, chips of dolerite quartz & shale with khaki-ochre clays				10.5	27.0		21.7										Water & sample loss through gravels
3-4	1	Gravel & chips of quartz sandstone & dolerite; some sands & khaki ochre clays				4.0	31.0		6.4										
4-5	1	Grey silty clay				7.0	38.0		13.6										Recased from 1-4m -all material included in sample.

Bottomed / Unbottomed at 23 metres on Mafic in bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

018

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

2/4

Bore no.: A3 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.	
5-6	1	Grey clay; coarse gravel & chips of quartz, sandstone, slate & dolerite; grey sandy clays				6.0	46.0		6.7									
6-7	1	Dark grey sandy clays				3.5	47.5		5.4									
7-8	1	" " "				6.5	54.0		10.3									
8-9	1	" " "				5.0	59.0		6.5									
9-10	1	" " "				7.0	66.0		10.7									
10-11	1	" " "				6.0	72.0		8.6									
11-12	1	" " "				5.0	77.0		9.7									
12-13	1	" " "				6.0	83.0		9.3									

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: A3 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 (1000ths cu.m.)	cum. (1000ths 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 g	-20 g							
13-14	1	Dark grey silty clay				3·5	86·5		5·6										
14-15	1	" " "				4·5	91·0		7·2										
15-16	1	" " "				5·0	96·0		8·7										
16-17	1	Dark grey silty clay: some sand				6·0	102·0		12·6										
17-18	1	Dark grey silty clay				6·0	108·0		9·9										
18-19	1	" " "				5·0	113·0		8·0										
19-20	1	" " "				5·5	118·5		8·0										
20-21	1	" " "				4·0	122·5		6·7										
21-22	1	" " "				1·0	123·5		1·9										Sample lost on casing

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

020

4/4

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

Bore no.: A3 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.	
22-23	1	Black shales & laminated mudstone																	Cored only. Recovered 0.8m.
0-23		Silts & clays				3.5	127.0		5.7										

Bottomed / Unbottomed at 23 metres on Shale bedrock.

Average field grade _____ g. per cu. m.

021

983022

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER. A3..... RECORDED BY. A. JACKSON....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels +10mm (Kg) to -2mm			Clay (Kg)
0-1	11.1	0.6			10.5
1-2	14.7	6.9			7.8
2-3	21.7	10.1			11.6
3-4	6.4	4.3			2.1
4-5	13.6	1.6			12.0
5-6	6.7	1.4			5.3
6-7	5.4	0.7			4.7
7-8	10.3	1.8			8.5
8-9	6.5	1.1			5.4
9-10	10.7	2.0			8.7
10-11	8.6	1.7			6.9
11-12	9.7	1.5			8.2
12-13	9.3	1.7			7.6
13-14	5.6	1.5			4.1
14-15	7.2	1.4			5.8
15-16	8.7	1.7			7.0
16-17	12.6	2.0			10.6
17-18	9.9	2.1			7.8
18-19	8.0	1.5			6.5
19-20	8.0	1.6			6.4
20-21	6.7	0.6			6.1
21-22	1.9	0.2			1.7
SH SILTS 0-23	5.7	0.5			5.2

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no: B1 Commenced time: 7.30 am Date: 29.1.81 Machine: GEMCO 210B Casing shoe diameter: External 9.0 cm. Internal 7.5 cm. SHEET 1/5

Off-set: 100m → 231° Completed time: 11.30 AM Date: 31.1.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

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 +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.	
0-1		Ochre clays with sands & gravels		5.4		8.0	8.0		11.6										Cased only
1-2		Coarse gravel & chips of quartz and sandstone with red-ochre clays		5.4		15.0	23.0		14.5										Drilled then cased. Clays difficult to settle. Samples included large amounts of water
2-3		Coarse gravel & chips of quartz & sandstone with red-ochre clays		5.4		12.0	35.0		17.0										" "
3-4		" "		5.4		16.0	51.0		19.2										" "
4-5		" "		5.4		14.0	65.0		18.9										" "
5-6		Coarse gravel & chips of Sandstone. Some		5.4		13.0	78.0		19.1										" " colours also.

Bottomed / Unbottomed at 30.0 metres on Mathinna bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: B1 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ 2/5

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.) record.	wt. (g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g.) per cu. m.	
5-6		ochre clays																	
(cont)																			
6-7		Ochre clays with some sand & gravel		5.4		13.0	91.0		19.8										
7-8		Coarse gravels & sand		5.4		5.0	76.0		6.5										
8-9		Ochre clays with coarse gravels sand		5.4		11.0	107.0		14.7										
9-10		Ochre clays.		5.4		8.0	115.0		6.9										
10-11		Ochre clays with some quartz & sandstone gravels.		5.4		11.0	126.0		11.2										

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: EL 22/80 AREA: SOUTH-EAST STATE: TASMANIA

Bore no.: B1 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.) 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
11-12		Red-ochre clays with some quartz & sandstone chips		5.4		11.5	137.5		12.0										
12-13		Red-ochre clay with some sand.		5.4		12.0	149.5		11.1										
13-14		" " "		5.4		14.0	163.5		17.1										
14-15		" " "		5.4		14.0	177.5		20.2										
15-16		Ochre clay with some gravels		5.4		12.0	189.5		10.5										
16-17		Ochre-khaki clay with some sand.		5.4		8.0	197.5		10.1										
17-18		Ochre clays with some sands & gravels		5.4		9.0	206.5		12.2										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

025

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

Bore no.: B1 Commenced time: Date: Machine: Casing shoe diameter: 4/5

Off-set: Completed time: Date: 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 sectional (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
18-19		Ochre clay with some sands & gravels		5.4		9.0	215.5		14.2										
19-20		" "		5.4		8.0	223.5		9.8										
20-21		" "		5.4		7.0	230.5		10.1										
21-22		Ochre clay with some sands		5.4		10.0	240.5		7.8										
22-23		" " "		5.4		8.0	248.5		5.4										
23-24		Ochre-khaki clays		5.4		6.0	254.5		5.6										
24-25		" "		5.4		7.0	261.5		4.8										
25-26		" "		5.4		10.0	271.5		10.4										

Bottomed / Unbottomed at ____ metres on ____ bedrock

Average field grade ____ g. per cu. m.

9208

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: EL22/82 AREA: SOUTH ESK STATE: TASMANIA

5/5

Bore no.: B1 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.) 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
26-27		Ochre - lateritic clays		5.4		7.0	278.5		12.0										Tricored only
27-28		" " "		5.4		7.0	285.5		10.9										" "
28-29		Khaki silty clays		5.4		6.0	291.5		5.3										" "
29-30		" " "		5.4		4.0	295.5		6.5										" "
30-31		" " "		5.4		4.0	299.5		3.3										" "
31-32		Grey-green weathered slates & clays		5.4															Cored only
29-32		Khaki silty clays		5.4		13.0	312.5		21.5										Hole reamed from 29-31, then cored.
EOH 0-32		Silts & gravels							23.0										

Bottomed / Unbottomed at 32.0 metres on Mathinna bedrock slates

Average field grade _____ g. per cu. m.

027

983028

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER.. B.7..... RECORDED BY.. A. JACKSON.....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg) -20H	- 1 (-2)	-[illegible] (Kg)	
0 - 1	11·6	3·0			8·6
1 - 2	14·5	6·4			8·6
2 - 3	17·0	7·2			9·8
3 - 4	19·2	10·9			8·3
4 - 5	18·9	8·8			10·1
5 - 6	19·1	8·0			11·1
6 - 7	19·8	8·9			10·9
7 - 8	6·5	3·2			3·3
8 - 9	14·7	5·3			9·4
9 - 10	6·9	1·3			5·6
10 - 11	11·2	1·6			9·6
11 - 12	12·0	2·8			9·2
12 - 13	11·1	1·9			9·2
13 - 14	17·1	3·1			14·0
14 - 15	20·2	3·1			17·1
15 - 16	10·5	1·9			8·6
16 - 17	10·1	1·2			8·9
17 - 18	12·2	1·1			11·1
18 - 19	14·2	1·6			12·6
19 - 20	9·8	1·0			8·8
20 - 21	10·1	1·7			8·4
21 - 22	7·8	1·2			6·6
22 - 23	5·4	0·9			4·5
23 - 24	5·6	0·9			4·7
24 - 25	4·8	0·5			4·3
25 - 26	10·4	0·7			9·7
26 - 27	12·0	0·4			11·6

028

983029 212

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER. B1 RECORDED BY.....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg) -20M			
27-28	10.9	1.5			9.4
28-29	5.3	1.7			3.6
29-30	6.5	0.5			6.0
30-31	3.3	0.3			3.0
29-32	21.5	1.8			19.7
ADH SLIS 0-32	23.0	1.7			21.3

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no: B2 Commenced time: 7.45 AM Date: 20.1.81 Machine: Gemco 210B Casing shoe diameter: External 9.0 Internal 7.5

Off-set: 32m → 028° Completed time: 1.00 PM Date: 28.1.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

Collar level: _____

1/6

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 (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.) 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	1	Brown topsoil, & ochre clays with quartz & sandstone gravels				7.0			13.4										Cased then drilled.
																			Drilled then cased
1-2		Ochre clays with quartz & sandstone gravels. ~~Some~~ Red clays at ~1.6m.				4.0			7.4										
2-3		Red clays, ochre clay with quartz gravels & sandstone chips				10.0			18.4										
3-4		Gravel & chips of quartz alternating with ochre clays layers				7.5			14.6										

Bottomed / Unbottomed at 28.0 metres on Mainly bedrock Shales

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

030

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

Bore no.: B2 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ 2/6

Off-set: _____ Completed time: _____ Date: _____ Foreman, ponner: _____ 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.	
4-5	1	Quartz & sandstone chips & gravel with ochre clays				12.0			21.2										Clays formed thick slime ~~from~~ - did not flocculate readily. Cased to 4.6m. Pulled casing due to heavy ground.
0-5	1.5	Ochre & red clays with quartz & sandstone gravels				26.0			28.6										Reamed with large tricone bit then recased. Sample taken at end of 5m.
5-6	1	Ochre clays & quartz gravels, with some sandstone & plastic clays				13.5			22.6										Treated then cased.

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

031

AUSTRALIAN ANGLO AMERICAN LIMITED

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

3/6

Bore no.: B2 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 #							
6-7		Ochre clays with quartz & sandstone chips & gravels				18.0			27.2										Drilled Then cased
7-8		Quartz & shale chips, then stiff ochre clays				7.0			14.3										Colours of AW.
8-9		Stiff ochre clays with some sandy clays at ~8.9m				9.0			9.2										" " "
9-10		Ochre sandy clays with some coarse gravel & quartz chips				9.0			11.7										" " "
1																			" " "
10-11		Ochre - khaki sandy clays				10.5			15.7										Colours of AW.

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

9803032

AUSTRALIAN ANGLO AMERICAN LIMITED

032

PROSPECT: EL 22/80 AREA: SOUTHEST STATE: TASMANIA

Bore no.: B2 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____

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

Collar level: _____

4/6

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) record.	wt (g) per cu.m.	metre-gram	cum. metre-gram	prog. wt (g) per cu. m.	
										+10 mm.	-10 m +20 #	-20 #							
11-12		Khaki sandy clays				8·5			12·5										
12-13		Khaki sandy clays				4·5			7·3										
13-14		" " "				6·5			9·3										
14-15		Khaki-ochre sandy clay				7·5			11·7										
15-16		" "				6·5			7·0										
16-17		Khaki clayey silts	S			7·0			7·7										Stiff clay on moone but
17-18		" " "				8·2			9·6										
18-19		Khaki-ochre clayey sands with some shale chips				8·0			13·1										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

033

5/6

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

Bore no.: B2 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.	
18-19		coral quartz gravels																	
(cont)																			
19-20		Khaki - ochre clayey sands with quartz gravel & shale chips.				7.0			7.8										
20-21		Ochre clay with some silts.				9.0			14.1										
21-22		" " "				4.0			3.6										Drilled only, not cored, ∴ smaller samples.
22-23		Khaki clay with some sand				3.0			2.8										
23-24		" " " "				4.0			5.7										
24-25		Green khaki clay				6.0			4.2										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

034

PROSPECT: EL 22/80 AREA: South Esk STATE: Tasmania 6/6

Bore no.: B2 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	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum	section (1000 lbs cu.m)	cum (1000 lbs cu.m)	section vol rec.(%)	(Kg)	SANDS/GRAVELS +10 mm	SANDS/GRAVELS -10 m + 20 #	SANDS/GRAVELS -20 #	CLAY	actual wt.(g) record.	wt.(g) per cu.m.	metre-gram	cum. metre-gram	prog. wt.(g) per cu.m.	
25		Grey-green clay				5.0			5.5										Treated only
26		with some silts																	
26		" " "				4.0			12.9										" "
27																			
27	1	Grey-green weathered																	Cored only.
28		Shales.																	Recovered 75% of
																			core.
EOH	28	Silts & clays.							12.4		1.3		11.6						

Bottomed / Unbottomed at 28.0 metres on Mathinna bedrock. Shales

Average field grade _____ g. per cu. m.

035

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

PROJECT NUMBER. E4.22/80 AREA. SOUTH ESK STATE. TASMANIA

BORE NUMBER. 132 RECORDED BY. A. JACKSON

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels +10mm (Kg) to -20#	Sands/Gravels -10mm (Kg)		Clay (Kg)
0-1	13.4	2.1			11.3
1-2	7.4	0.9			6.5
2-3	18.4	5.0			17.4
3-4	14.6	6.1			8.5
4-5	29.2	11.0			18.2
* 0-5	28.0	5.1			22.9
5-6	22.4	7.6			14.8
6-7	27.2	11.4			15.8
7-8	14.3	3.6			10.7
8-9	9.2	2.0			7.2
9-10	11.7	2.2			9.5
10-11	15.7	4.1			11.6
11-12	12.5	2.5			10.0
12-13	7.3	1.0			6.3
13-14	9.3	1.7			7.6
14-15	11.7	1.8			9.9
15-16	7.0	0.8			6.2
16-17	7.7	1.5			6.2
17-18	9.6	1.4			8.2
18-19	13.1	3.3			9.8
19-20	7.8	0.9			6.9
20-21	14.1	3.5			10.6
21-22	3.6	0.7			2.9
22-23	2.8	0.2			2.6
23-24	5.7	1.2			4.5
24-25	4.2	0.2			4.0
25-26	4.8	0.4			4.4

036

983037 2/2

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER... B2..... RECORDED BY.....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg)	-10mm +20# (Kg)	-20# (Kg)	
26 - 27	5·5	1·1			4·4
EOH SILTS 0-28	12·9	1·3			11·6

AUSTRALIAN ANGLO AMERICAN LIMITED

037

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

Bore no.: BH Commenced time: 4.30 PM Date: 9.1.81 Machine: GEMCO R10B Casing shoe diameter: Extend 9.0cm. Inland 7.5

Off-set: Completed time: 1.00 PM Date: 10.1.81 Foreman, panner: A JACKSON Supervisor: B. DOUGLAS

Collar level:

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000 ths. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum	section (1000ths cu.m.)	cum (1000ths cu.m.)	section vol. rec. (%)	(Kg.)	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 #							
0.0 – 1.4	1.4	Ochre clayey sand, fine grained.				1.5	1.5		2.6										May have been sediment loss with water escaping before reaching sediment tank
1.4 – 2.4	1.0	Some dolerite chips & quartz gravel. Mainly dark grey clayey mud				5.0	6.5		9.3										
2.4 – 3.9	1.5	~~Some~~ Dark grey clayey mud				8.0	14.5		13.2										Colours.
3.9 – 5.6	1.7	Chips of fine grained Sandstone & Shale. with Yellow-brown clay				3.0	17.5		4.5										
5.6 – 6.0	0.4	Fine grained silt-stone. Mathinna Beds																	Core only
EOH		Muds & Silt - yellow - brown				1.0	18.5		0.85										

Bottomed / Unbottomed at 6.0 metres on Mathinna Siltstone bedrock

Average field grade _____ g. per cu. m.

038

983039

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

PROJECT NUMBER. E.L. 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				

AUSTRALIAN ANGLO AMERICAN LIMITED

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

core diameter 0.05m. Inland 0.07m Extend.

Bore no.: B-5 Commenced time: 3.00 PM Date: 8.1.81 Machine: GENCO 2103 Casing shoe diameter: _____

Off-set: _____ Completed time: 1.45 P.M Date: 9.1.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

Collar level: _____

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000 tns. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (Kg)	WT(%)				FIELD CONCENTRATE					REMARKS
				section	cum.	section (1000 tns cu.m.)	cum. (1000 tns cu.m.)	section vol. rec.(%)		SANDS/GRAVELS +10 mm	SANDS/GRAVELS -10 m +20 #	SANDS/GRAVELS -20 #	CLAY	actual wt.(g) record.	wt.(g) per cu.m.	metre-gram	cum. metre-gram	prog. wt.(g) per cu.m.	
0-0.75	0.75	Fine gravelly sands & dolerite boulders				10.0	10.0		0.8										Tricored then cored through boulders
0.75 - 1.7	0.95	Sandstone & Quartz gravel & chips with some dolerite				6.5	16.5		15.6										Gravels cored.
1.7 - 3.5	1.8	Quartz & sandstone gravels. Conglomerate core				9.5	26.0		16.85										Tricored then cored from 3.0-3.5
3.5 - 4.0	0.5	Mathinna Bed conglomerate. Large quartz & sandstone cobbles in grey-green siliceous matrix.				—			1.8										Cored only.

Bottomed / Unbottomed at 3.5 metres on Mathinna bedrock

Average field grade _____ g. per cu. m.

040

983041

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

PROJECT NUMBER. E.4.22/80 AREA. South. Esk. STATE. Tasmania.

BORE NUMBER. B.5 RECORDED BY. S.H. 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				

041

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: C1 Commenced time: 3.00 PM Date: 4.2.81 Machine: GEMCO 210B Casing shoe diameter: External 9.0 cm. Internal 7.5 cm.

Off-set: 200m → 227° Completed time: 12.00 PM Date: 5.2.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

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 wash mm.	WT(%) SANDS/GRAVELS -10 m +[illegible]	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	1	Dark brown sand & silt	F			3.5	3.5		4.7										Cased only.
1-2	1	Dark brown sands. Gravel & chips of quartz shale & sandstone	F			4.5	8.0		4.6										Drilled then cased.
2-3	1	Quartz, shale & sandstone chips & gravels.	F			0.5	8.5		0.9										Loss of water & sample through gravels.
3-4	1	Sand; quartz, shale & sandstone chips & gravels	F			4.0	12.5		7.9										
4-5	1	Grey clays & sand	S			4.0	16.5		4.4										
5-6		Grey clay	S			3.0	19.5		2.0										

Bottomed / Unbottomed at 5.0 metres on Mathinna Shales bedrock

Average field grade _____ g. per cu. m.

042

AUSTRALIAN ANGLO AMERICAN LIMITED

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

2/2

Bore no.: C1 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.	
6-7	1	Highly weathered grey-green shales	S																Cored. Recovered 0.56 m.
EOH		Silts & clays				3.0	225		2.2										

Bottomed / Unbottomed at 5.0 metres on Mathinna bedrock

Average field grade _____ g. per cu. m.

983044

043

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER. C.1 RECORDED BY. A. JACKSON

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		-10mm (Kg) to -20#	[illegible]mm	[illegible]	
0-1	4.7	0.7			4.0
1-2	4.6	3.6			1.0
2-3	0.9	0.5			0.4
3-4	7.9	5.8			2.1
4-5	4.4	0.3			4.1
5-6	2.0	0.05			1.95
EOH SILTS 0-7*	2.2	<0.05			~2.15

*NB: ENTIRE GRAVEL SAMPLE OBTAINED HAS BEEN PLACED IN SAMPLE BAG.

044

AUSTRALIAN ANGLO AMERICAN LIMITED

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

1/

Bore no.: C 2 Commenced time: 9.00 AM Date: 3.2.81 Machine: GEMCO 210B Casing shoe diameter: EXT. 9.0 INT. 7.5

Off-set: 200m Bearing 227° Completed time: 11.30 AM Date: 4.2.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

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 [illegible]	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	1	Brown sand & silt; some quartz gravels				4.5	4.5		6.3										Casing only
1-3	2	Brown sand with gravels & chips of quartz & sandstone				1.0	5.5		2.5										Water & Sample loss through gravels Drilled then cased.
3-4	1	Ochre clay; sand gravel & chips of quartz, shale & diorite.				3.0	8.5		5.9										
4-5	1	Ochre clay with gravels of quartz & shale				3.0	11.5		5.6										
5-6	1	Ochre clay				3.0	14.5		2.3										
6-7	1	Ochre clay & sand				1.0	15.5		1.5										Water & Sample loss through gravels.

Bottomed / Unbottomed at 16 metres on Mathinna bedrock Shale

Average field grade _____ g. per cu. m.

CR 80/33

AUSTRALIAN ANGLO AMERICAN LIMITED

045

2/2

PROSPECT: E.L. 22/80 AREA: SOUTH ESK STATE: TASMANIA.

Bore no.: C2 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 (1000ths cu.m.)	cum (1000ths 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.	
7-8	1	Ochre clay with sands & quartz rich gravels				1.0	16.5		1.0									Sample & water lost through gravels
8-9	1	Khaki - ochre clay				2.0	18.5		0.7									
9-10	1	Light grey clays with some silt				1.0	19.5		0.5									
10-11	1	" " "				1.5	21.0		0.7									
11-12	1	" " "				1.0	22.0		1.0									
12-13	1	" " "				1.0	23.0		1.0									
13-14	1	" " "				1.0	24.0		1.4									
14-15	1	" " "				1.0	25.0		1.4									
15-16		Silts				1.0	26.0		1.1									
15-16	1	Highly weathered grey-green shales																Cored. Recovered 0.9m

Bottomed / Unbottomed at 16 metres on Shale bedrock.

Average field grade _____ g. per cu. m.

0900 0910

043

983047

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

PROJECT NUMBER. EL 23/80 AREA. SOUTH ESK STATE. TAS.....

BORE NUMBER. C2..... RECORDED BY. A. JACKSON...

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		-10mm (Kg) to -20#	- mm	,	
0-1	6·3	3·5			2·8
1-3	2·5	0·8			1·7
3-4	5·9	3·1			2·8
4-5	5·6	1·5			4·1
5-6	2·3	0·3			2·0
6-7	1·5	0·1			1·4
7-8	1·0	0·1			0·9
8-9	0·7	0·05			0·65
9-10	0·5	0·05			0·45
10-11	0·7	0·05			0·65
11-12	1·0	*			?
12-13	1·0	*			?
13-14	1·4	*			?
14-15	1·4	*			?
15-16	1·1	0·1			1·0

* ALL SAND/GRAVEL OBTAINED WEIGHED LESS THAN 0·05 Kg, hence: ENTIRE SAND/GRAVEL WAS PLACED IN SAMPLE BAG.

AUSTRALIAN ANGLO AMERICAN LIMITED

047

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

Bore no.: C3 Commenced time: 1.30 PM Date: 5.2.81 Machine: GEMCO 2108 Casing shoe diameter: External 9.0 Internal 7.5

Off-set: — Completed time: 12.45 PM Date: 6.2.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

SHEET 1/3

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 +10 mm.	SANDS/GRAVELS -10 m +20 #	SANDS/GRAVELS -20 #	CLAY	actual wt. (g.) record.	wt. (g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g.) per cu. m.	
0-1	1	Brown soil; ochre clays	M			5.0	5.0		7.4										Cased only
1-2	1	Ochre clays & sands	S			8.0	13.0		13.9										Drilled then cased.
2-3	1	Ochre clays with gravel & chips of quartz & sandstone				7.0	20.0		15.3										
3-4	1	Gravel & chips of quartz and sandstone with coarse sand & ochre clay				13.0	33.0		33.1										
4-5	1	Brown clay & sand; gravel & chips of sandstone & quartz;	F			6.0	39.0		13.4										
		pale ochre clays	S																

Bottomed / Unbottomed at 8.0 metres on Mathinna bedrock

Dolerite

Average field grade _____ g. per cu m.

9833043

AUSTRALIAN ANGLO AMERICAN LIMITED

048

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

Bore no.: C3 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____

Off-set: _____ Completed time: _____ Date: _____ Foreman panner: _____ Supervisor: _____ SHEET 2/3

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.) record	wt. (g.) per cu.m	metre-gram	cum. metre-gram	prog. wt. (g.) per cu. m.	
5-6	1	Pale ochre sandy clays; some quartz and sandstone chips	S			9.0	48.0		11.0										
			F																
6-7	1	Pale ochre clay; quartz and sandstone gravels; fine sands				8.0	56.0		11.8										
			F																
7-8	1	" " "				14.0	70.0		19.5										
8-9	1	Ochre sandy clay	M			11.0	81.0		10.3										
9-10	1	Ochre clays with quartz gravels & chips				18.0	99.0		18.1										
10-11	1	Ochre sandy clays with quartz gravels				16.0	115.0		13.7										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

C3 0048

AUSTRALIAN ANGLO AMERICAN LIMITED

049

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

Bore no.: C3 Commenced time: Date: Machine: Casing shoe diameter:

Off-set: Completed time: Date: Foreman/panner: Supervisor: SHEET 3/3

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) recovd.	wt. (g) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g) per cu. m.	
										+10 mm	-10 m +20 #	-20 #							
11-12	1	Ochre weathered shales with quartz veins.																	Cored. Recovered 0.7 m.
0-12		E.O.H. Silts				9.0	124.0		16.2										

Bottomed / Unbottomed at 8.0 metres on Mathinna bedrock

Average field grade _____ g. per cu. m.

050

983051

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER.. C3..... RECORDED BY. A.. JACKSON..

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		-10mm +-20# (Kg)			
0-1	7.4	1.4			6.0
1-2	13.9	1.9			12.0
2-3	15.3	4.1			11.2
3-4	33.1	12.2			20.9
4-5	13.4	3.2			10.2
5-6	11.0	1.9			9.1
6-7	11.8	1.9			9.9
7-8	19.5	0.8			18.7
8-9	10.3	1.5			8.8
9-10	18.1	2.4			15.7
10-11	13.7	1.6			12.1
EOH SILTS 0-12.7	16.2	0.3			15.9

051

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: C4 Commenced time: 1.45PM Date: 6.2.81 Machine: GEMCO 210B Casing shoe diameter: Extend 9.0cm. Internal 7.5cm.

Off-set: 42m. → 283° Completed time: 10.00AM Date: 11.2.81 Foreman panner: A. JACKSON Supervisor: I. DOUGLAS

SHEET 1/2

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.) recovd.	wt. (g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g.) per cu. m.	
										+10 mm	-10 m +20 #	-20#							
0-1	1	Brown sands & silts; ochre clays; gravel & chips of quartz shale & sandstone	F			6.0	6.0		8.7										Cased only.
1-2	1	Ochre clays; gravel & chips of quartz shale & sandstone.	F			5.0	11.0		7.2										Drilled then cased.
2-3	1	" " "				6.0	17.0		9.5										" "
3-4	1	Brown-ochre clay with sand & quartz gravel.	F			8.0	25.0		12.6										" "
4-5	1	" " "	F			8.0	33.0		11.9										" " (Icaloud)
5-6	1	Ochre clays	S			5.0	38.0		5.5										" "

Bottomed / Unbottomed at 6.0 metres on Mathinna Shales bedrock

Average field grade _____ g. per cu. m.

9803057

AUSTRALIAN ANGLO AMERICAN LIMITED

052

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

Bore no.: C4 Commenced time: Date: Machine: Casing shoe diameter:

Off-set: Completed time: Date: Foreman panner: Supervisor: SHEET 2/2

Collar level:

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000ths 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) 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	Highly weathered grey shales																	Cored. Recovered 0.95m.
0-7	·	EOH Silts				2·0	40·0		30										

Bottomed / Unbottomed at 6·0 metres on Mathinna bedrock

Average field grade _____ g. per cu. m.

9830553

053

983054

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

PROJECT NUMBER EL 22/80 AREA SOUTH ESK STATE TASMANIA

BORE NUMBER C4 RECORDED BY A. JACKSON

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels -10mm (Kg) to -20#	-	-	Clay (Kg)
0-1	8.7	3.0			5.7
1-2	7.2	2.2			5.0
2-3	9.5	4.2			5.3
3-4	12.6	5.0			7.6
4-5	11.9 COLOUR	6.3			5.6
5-6	5.5	0.8			4.7
EOH SILTS 0-7	3.0	0.15			2.85

AUSTRALIAN ANGLO AMERICAN LIMITED

054

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

Bore no.: C5 Commenced time: 11.00AM Date: 11.2.81 Machine: Gemco 210B Casing shoe diameter: External 9.0cm. Internal 7.5cm.

Off-set: 66m → 153° Completed time: 5.30 PM Date: 11.2.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS SHEET 1/2

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 +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.	
0-1	1	Brown silt & sand.	F			6.0	6.0		3.1										Cased only.
1-2	1	Brown sand; quartz and sandstone gravel & chips.	F			14.0	20.0		17.5										Drilled then cased (1 colour)
2-3	1	Brown. ochre sand; quartz, sandstone & dolerite chips & gravels	F			11.0	31.0		14.1										" " "
3-3.6	0.6	" " "				25.0	56.0		45.3										Tricone obstructed. Not cutting through gravels
3.6-4.1	0.5	Dolerite boulder							—										Cored through boulder 10cm recovered.
4.1-5.0	0.9	Brown sands; quartz dolerite & sandstone				11.0	67.0		17.2										Drilled then cased, (1 colour)

Bottomed / Unbottomed at 6.0 metres on Mathinna Slate bedrock

Average field grade _____ g. per cu. m.

6803055

AUSTRALIAN ANGLO AMERICAN LIMITED

055

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

Bore no.: C5 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____

Off-set: _____ Completed time: _____ Date: _____ Foreman panner: _____ Supervisor: _____ SHEET 2/2

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 #							
(4·1-5·0		chips & gravels	F																
cont).																			
5-6	1	" " "	F			22·0	89·0		28·2										(9 colours)
6-7	1	Ochre-khaki clays	S			9·0	98·0		3·6										(1 colour)
7-8	1	ochre clays; pebbles of	S																Cored. Recovered
		black shale; ochre																	20cm.
		shale; red clay.																	
0-8		EOH silts				4·0	102·0		0·6										

Bottomed / Unbottomed at 6·0 metres on Mathinna bedrock

Average field grade _____ g. per cu. m.

9830986

058

983057

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER ... CS ..... RECORDED BY. A. JACKSON .....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		- +10mm (Kg) to -20#			
0-1	7·6	3·1			4·5
1-2	23·8	17·5			6·3
2-3	20·1	14·1			6·0
3-3·6	48·5	45·3			3·2
3·6 — 4·1 CORE TAKEN	NIL	—			—
4·1-5	21·8	17·2			4·6
5-6	36·1	28·2			7·9
6-7	10·8	3·6			7·2
ADH SILTS 0-8	5·9	0·6			5·3

AUSTRALIAN ANGLO AMERICAN LIMITED

057

PROSPECT: EL 22/80 AREA: SOUTHESK STATE: TASMANIA.

Bore no.: D1 Commenced time: 9.15AM Date: 12.2.81 Machine: GEMCO 210B Casing shoe diameter: External 9.0cm. Internal 7.5cm.

Off-set: — Completed time: 1.15PM Date: 12.2.81 Foreman panner: A. JACKSON Supervisor: D. DOUGLAS

SHEET 1/2

Collar level: ↓

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000 tns. cu.m.) section	THEORETICAL VOL. (1000 tns. 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) 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	1	Brown Soil; quartz sands & gravels; large pebbles of red Sandstone & quartz	F			5.5	5.5		9.6										Cased only (1 colour)
1-2	1	Pale ochre sandy clay; ochre clay with quartz gravels; Sandstone & quartz gravels & chips	M			7.0	12.5		17.6										Drilled then cased (1 colour)
2-3	1	Ochre clays with quartz & sandstone sands and gravels	M			9.0	21.5		15.8										" " " (1 colour)
3-4	1	Ochre sandyclays	S			8.0	29.5		14.3										" " "
4-5	1	" " "	S			9.0	38.5		13.1										" " "

Bottomed / Unbottomed at 5.5 metres on Mathinna bedrock Shales

Average field grade _____ g. per cu. m.

9800

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: D1 Commenced time: Date: Machine: Casing shoe diameter:

Off-set: Completed time: Date: Foreman panner: Supervisor: SHEET 2/2.

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.) recovd.	wt.(g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt.(g.) per cu. m.	
										+ 10 mm	- 10 m + 20 #	- 20 #							
5-6	1	Ochre clays & gravels; weathered grey shale																	Cored only.
0-6		EOH silts				9.0	47.5		10.6										

Bottomed / Unbottomed at 5.5 metres on Mathinna bedrock

Average field grade _____ g. per cu. m.

053

983060

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER D1 RECORDED BY A. JACKSON

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		-10mm (Kg) to -20#			
0-1	9.6 COLOUR	6.3			3.3
1-2	17.6 COLOUR	11.4			6.2
2-3	15.8 COLOUR	7.9			7.9
3-4	14.3	1.9			12.4
4-5	13.1	1.8			11.3
EH SILTS 0-6	10.6	1.6			9.0

060

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: E.L. 22/80 AREA: SOUTH ESK STATE: TASMANIA

Bore no.: D 2 Commenced time: 2·45 PM Date: 12·2·81 Machine: GEMCO 210B Casing shoe diameter: Ext. 9·0 Int. 7·5 SHEET 1/6

Off-set: 5m →131° Completed time: 1·30 PM Date: 15·2·81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

Collar level: ______

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000ths. cu.m.) section	THEORETICAL VOL. 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) 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	1	Brown sands & clays	F			6·0	60		7·8										Cased only
1-2	1	Brown-ochre sandy clay	S			5·0	11·0		6·8										Drilled then cased (1 colour)
2-3	1	ochre & grey clay	S			3·0	14·0		4·6										
3-4	1	Quartz, sandstone shale & dolerite chips & gravel; sands	F			8·0	22·0		13·5										
4-5	1	Quartz, sandstone shale & dolerite chips & gravels	F			30·0	52·0		49·3										(5 colours)
5-6	1	Quartz, sandstone, shale & dolerite gravels with coal fragments	F			20·0	72·0		32·4										

Bottomed / Unbottomed at 30·2 metres on Mathinna Shales bedrock

Average field grade ______ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

061

PROSPECT: E.L. 22/80 AREA: SOUTH ESK STATE: TASMANIA.

Bore no.: D2 Commenced time: Date: Machine: Casing shoe diameter:

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

SHEET 2/6

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.) record	wt.(g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt.(g.) per cu. m.	
6-7	1	Dark grey-black sands with coal fragments.	F			5.0	77.0		7.1										Large amount of pyrite in concentrate
7-8	1	" "	F			25.0	102.0		37.5										Casing pulled after 8.0m. to replace shoe. Partial collapse of hole & subsequent redrilling gave large sample (1 colour)
8-9	1	Dark grey-black clayey sand with coal fragments	F			16.0	118.0		24.4										
9-10	1	" " "	F			10.0	128.0		14.8										
10-11	1	" " "	F			8.0	136.0		13.7										
11-12	1	" " "	F			10.0	146.0		14.8										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

062

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

Bore no.: D2 Commenced time: Date: Machine: Casing shoe diameter:

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

SHEET 3/6

Collar level:

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000 ths. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum.	section (1000 ths. cu.m.)	cum. (1000 ths. cu.m.)	section vol. rec. (%)	(Kg.)	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 #							
12-13		Grey-black clayey sand with small coal fragments.	F			10.0	156.0		23.3										Cored. 1.0 m of unconsolidated material recovered.
13-14		" "	F			14.0	170.0		16.8										Drilled then cased.
14-15	1	Grey-black sandy clay with coal particles	F			14.0	184.0		13.8										
15-16	1	Grey clayey sands with coal particles, quartz & dolerite chips; quartz & shale chips & gravels	F			9.0	193.0		20.7										
16-17	1	Quartz & dolerite chips & gravels with coal particles	F			10.0	203.0		15.5										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

C30880

063

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: D2 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ SHEET 4/6

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 +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	1	Quartz & dolerite chips & gravels with coal fragments	F			14·0	217·0		23·4										Cored. No recovery.
18-19	1	" " with grey clays.	F			19·0	236·0		20·4										
19-20	1	" " "	F			20·0	256·0		26·1										
20-21	1	Grey-black clay with quartz sands & gravels; coal fragments.	F			16·0	272·0		18·7										
21-22	1	Grey black clay with quartz sands & gravels; coal fragments At 21·8 - large chips of red quartz-sandstone.				19·0	291·0		29·0										

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

064

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: D2 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ SHEET 5/6

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-grom	prog. wt. (g.) per cu. m.	
22-23	1	Alternating layers of blue-grey clay & dolerite & quartz chips & gravels	F			9.0	300.0		18.6										Drilled only. Not cased.
23-24	1	" " "	F			9.0	309.0		13.8										" " "
24-25	1	" " "	F			3.3	312.3		5.9										" " "
25-26	1	" " "	F			9.0	321.3		11.7										" " "
26-27	1	" " "	F			9.0	330.3		10.1										" " "
27-28	1	" " "	F			5.0	335.3		5.8										" " "
28-29	1	" " "	F			5.0	340.3		7.4										" " "
29-30	1	" " "	F			5.0	345.3		8.3										" " "

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

065

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: D 2 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ SHEET 6/6

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 (1000ths cu.m.)	cum. (1000ths 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 #							
30-31	1	0.2m pebbles of sandy conglomerate with quartz matrix. 0.8m. grey-black pyritic shales																	Cored. 1.0m recovered.
		EOH Silts				20.0	3653		22.0										

Bottomed / Unbottomed at 30.2 metres on Mathinna bedrock Shales.

Average field grade _____ g. per cu. m.

9830660

066

983067

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER. D2 RECORDED BY. A. JACKSON

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg) to -20#			
0-1	7·8	1·6			6·2
1-2	6·8 COLOUR	1·0			5·8
2-3	4·6	0·3			4·3
3-4	13·5	9·2			4·3
4-5	49·3 5 SPECKS OF GOLD	41·4			7·9
5-6	32·4	19·7			12·7
6-7	7·1	4·8			2·3
7-8	37·5 COLOUR	18·8			18·7
8-9	24·4	7·5			16·9
9-10	14·8	3·6			11·2
10-11	13·7	0·7			13·0
11-12	14·8	1·5			13·3
12-13	23·3	11·7			11·6
13-14	16·8	5·9			10·9
14-15	13·8	4·8			9·0
15-16	20·7	8·3			12·4
16-17	15·5	9·3			6·2
17-18	23·4	8·2			15·2
18-19	20·4	9·2			11·2
19-20	26·1	7·8			18·3
20-21	18·7	6·5			12·2
21-22	29·0	7·3			21·7
22-23	18·6	8·4			10·2
23-24	13·8	6·9			6·9
24-25	5·9	3·4			2·5
25-26	11·7	5·2			6·5
26-27	10·1	3·9			6·2

067

983068

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER. D2..... RECORDED BY A. JACKSON....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg) to -20#			
27-28	5·8	2·6			3·2
28-29	7·4	3·8			3·6
29-30	8·3	2·5			5·8
EOH SILTS 0-31	22·0	3·5			18·5

068

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: D3 Commenced time: 2.30 PM Date: 15.2.81 Machine: CRISCO RIG B Casing shoe diameter: Ext. 9.0 cm Int 7.5 cm. SHEET 1/2

Off-set: — Completed time: 1.30 PM Date: 16.2.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

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
0-1	1	Brown sands & silts	P			5.0	5.0		6.0										Cased only.
1-2	1	Ochre-brown clayey sands	F			4.0	9.0		6.6										Drilled then cased. (1 colour)
2-3	1	ochre clayey sands	F			2.0	11.0		3.0										
3-4	1	Ochre sands & gravels	F			6.0	17.0		4.6										
4-5	1	Ochre sands & gravels with coal fragments	F			8.0	25.0		9.9										(1 colour)
5-6	1	Sands; with quartz sandstone & shale chips & gravel.	F			6.0	31.0		6.5										

Bottomed / Unbottomed at 10.0 metres on Mathinna bedrock Shale

Average field grade _____ g. per cu. m.

9880

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: D3 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ SHEET 2/2

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 #							
6-7	1	Sands & quartz gravels	F			2.0	33.0		1.3										
7-8	1	Dolerite, shale & quartz chips & gravels.	F			19.0	52.0		30.9										
8-9	1	Grey clayey sands, quartz and sandstone chips & gravels.	M			9.0	61.0		16.0										
9-10	1	Grey clayey sands	M			9.0	70.0		16.3										
10-11	1	Grey sandy clay	S			8.0	78.0		11.8										
11-12	1	Grey-black shale																	Cored only. Recovered 5.0 cm.
		EOH Silts				15.0	93.0		5.1										

Bottomed / Unbottomed at 10.0 metres on Mathinna Shale bedrock

Average field grade _____ g. per cu. m.

070

983071

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER D3..... RECORDED BY A. JACKSON....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		- 10mm (Kg) + -20#			
0-1	6·0	1·2			4·8
1-2	6·6 COLOUR	1·7			4·9
2-3	3·0	0·6			2·4
3-4	4·6	1·9			2·7
4-5	9·9 COLOUR	3·9			6·0
5-6	6·5	2·7			3·8
6-7	1·3	1·2			0·1
7-8	30·9	11·3			19·6
8-9	16·0	2·8			13·2
9-10	16·3	2·8			13·5
10-11	11·8	0·8			11·0
EOH SILTS 0-12	5·1	0·8			4·3

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E1 Commenced time: 3.00 PM Date: 16.2.81 Machine: GEMCO 2108 Casing shoe diameter: Ext. 9.0 cm Int. 7.5 cm

Off-set: — Completed time: 5.00 PM Date: 17.2.81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

Collar level:

SHEET 1/2

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 #							
0-1	1	Brown sands & silt	F			7.0	7.0		11.3										Cased only
1-2	1	Ochre clays & gravels	M			12.0	19.0		17.9										Drilled then cased.
2-3	1	Ochre clays	M			4.0	23.0		6.0										
3-4	1	" " "	M			4.0	27.0		8.4										
4-5	1	" " "	S			6.5	33.5		10.7										
5-6	1	" " "	S			6.0	39.5		7.2										
6-7	1	" " "	S			7.0	46.5		7.0										
7-8	1	" " "	S			6.0	52.5		7.5										
8-9	1	" " "	S			1.0	53.5		1.6										Cored. No recovery. Cased, then sampled

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

AUSTRALIAN ANGLO AMERICAN LIMITED

072

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

Bore no.: E1 Commenced time: Date: Machine: Casing shoe diameter: SHEET 2 of 2

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

Collar level:

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL (1000 tns. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (Kg.)	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum.	section (1000 tns. cu.m.)	cum. (1000 tns. 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 #							
9-10	1	Ochre clay	S			6.0	59.5		8.2										
10-11	1	" "	S			5.0	64.5		5.8										
11-12	1	" "	S			9.0	73.5		10.6										
12-13	1	" "	S			7.0	80.5		9.3										
13-14	1	Weathered ochre	S																Cored. Recovered
		shales																	0.95m.
		EOH silts				6.0	86.5		9.6										

Bottomed / Unbottomed at _____ metres on Mathinna bedrock shales.

Average field grade _____ g. per cu. m.

C.1.0086

073

983074

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

PROJECT NUMBER E4.22/80. AREA SOUTH ESK STATE TASMANIA

BORE NUMBER E.1..... RECORDED BY A. JACKSON....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		-10mm +20# (Kg)			
0-1	11.3	5.0			6.3
1-2	17.9	7.2			10.7
2-3	6.0	2.9			3.1
3-4	8.4	3.4			5.0
4-5	10.7	1.4			9.3
5-6	7.2	0.8			6.6
6-7	7.0	0.6			5.4
7-8	7.5	0.7			6.8
8-9	1.6	0.2			1.4
9-10	8.2	0.8			7.6
10-11	5.8	0.6			5.2
11-12	10.6	0.6			10.0
12-13	9.3	1.0			8.3
ASH SILTS 0-14	9.6	1.0			8.6

AUSTRALIAN ANGLO · AMERICAN LIMITED

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

Bore no.: E2 Commenced time: 8.00 AM Date: 18·2·81 Machine: GEMCO 210 B Casing shoe diameter: External 9·0cm. Internal 7·5cm SHEET 1/2

Off-set: 70·9m → 355° Completed time: 3·30PM Date: 19·2·81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

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 +10 mm	SANDS/GRAVELS -10 m + 20 #	SANDS/GRAVELS -20 #	CLAY	actual wt. (g.) record.	wt. (g.) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g.) per cu. m.	
0-1	1	Brown sand & silt	F			3·5	3·5		2·0										Cased only.
1-2	1	Brown-ochre clayey sands, & gravels of quartz sandstone & dolerite.	F			8·5	12·0		11·2										Drilled then cased. 1 colour.
2-3	1	ochre sands; gravels & chips of quartz sandstone & dolerite.	F			15·0	27·0		27·5										1 colour
3-4	1	" " "	F			15·0	42·0		28·2										
4-5	1	Sands & gravels of quartz & sandstone	F			16·0	58·0		35·3										1 colour
5-6	1	" " "	F			23·0	81·0		42·2										2 colours
6-7	1	Khaki-grey sandy clay	M			6·0	87·0		9·8										1 colour

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

075

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E2 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ SHEET 2/

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	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum.	section (1000 lbs. cu.m)	cum. (1000 lbs. cu.m)	section vol. rec. (%)	(Kg.)	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 #							
7-8	1	Grey sandy clay	M			4·0	91·0		6·0										
8-9	1	" " "	M			4·0	95·0		5·1										
9-10	1	" " "	S			2·0	97·0		3·2										
10-11	1	0.95m stiff grey clay																	CORED
		0.05m grey shale																	
		EOH silts				4·0	101·0		5·0										

Bottomed / Unbottomed at 10·95 metres on Mathinna bedrock

Average field grade _____ g. per cu. m.

076

983077

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

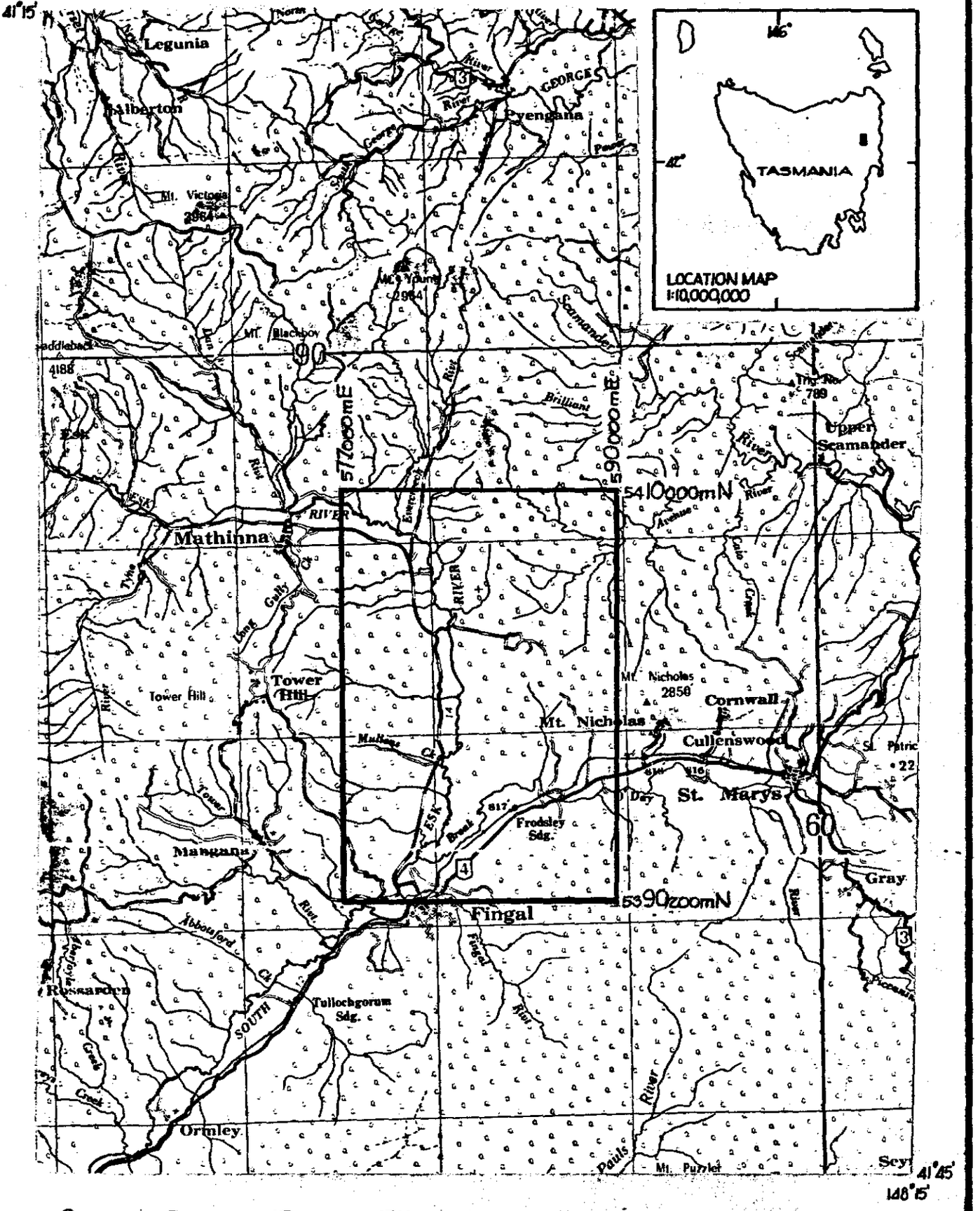
PROJECT NUMBER. E.L. 22/80 AREA. SOUTH ESK STATE. TASMANIA

BORE NUMBER... E2 ..... RECORDED BY... A. JACKSON...

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg)	-10mm -20# (Kg)		
0-1	2·0	–	0·3		1·7
1-2	11·2	–	6·4	COLOUR	4·8
2-3	27·5	–	25·3	COLOUR	2·2
3-4	28·2	–	25·4		2·8
4-5	35·3	–	24·0	COLOUR	11·3
5-6	42·2	–	31·2	2 COLOURS	11·0
6-7	9·8	–	2·2	COLOUR	7·6
7-8	6·0	–	0·6		5·4
8-9	5·1	–	0·9		4·2
9-10	3·2	–	0·4	COLOUR	2·8
0-11 SILTS.	5·0	–	0·4		4·6

077

983078



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		R.A.T.S.
AREA	SOUTH ESK, TAS.		EL. 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		

98307 9

81-1542

1265A

N

R14

R15

R16

STATE FOREST

STATE FOREST

to MATHINNA

to LAUNCESTON

SOUTH ESK RIVER

SPEERS ROAD

BREAK O' DAY RIVER

TO ST MARYS

COVER BEACH

LINE B

dissected floodplain

Thin cover over M

Scared area

GALAHIDE

FINGAL

M?/Puc

M/Puc

Puc

tc

a

M

F

A

B

B1

D

E

G

H

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 & plug like bodies - crosses indicate area of outcrop &/or 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

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°.

EL Boundary

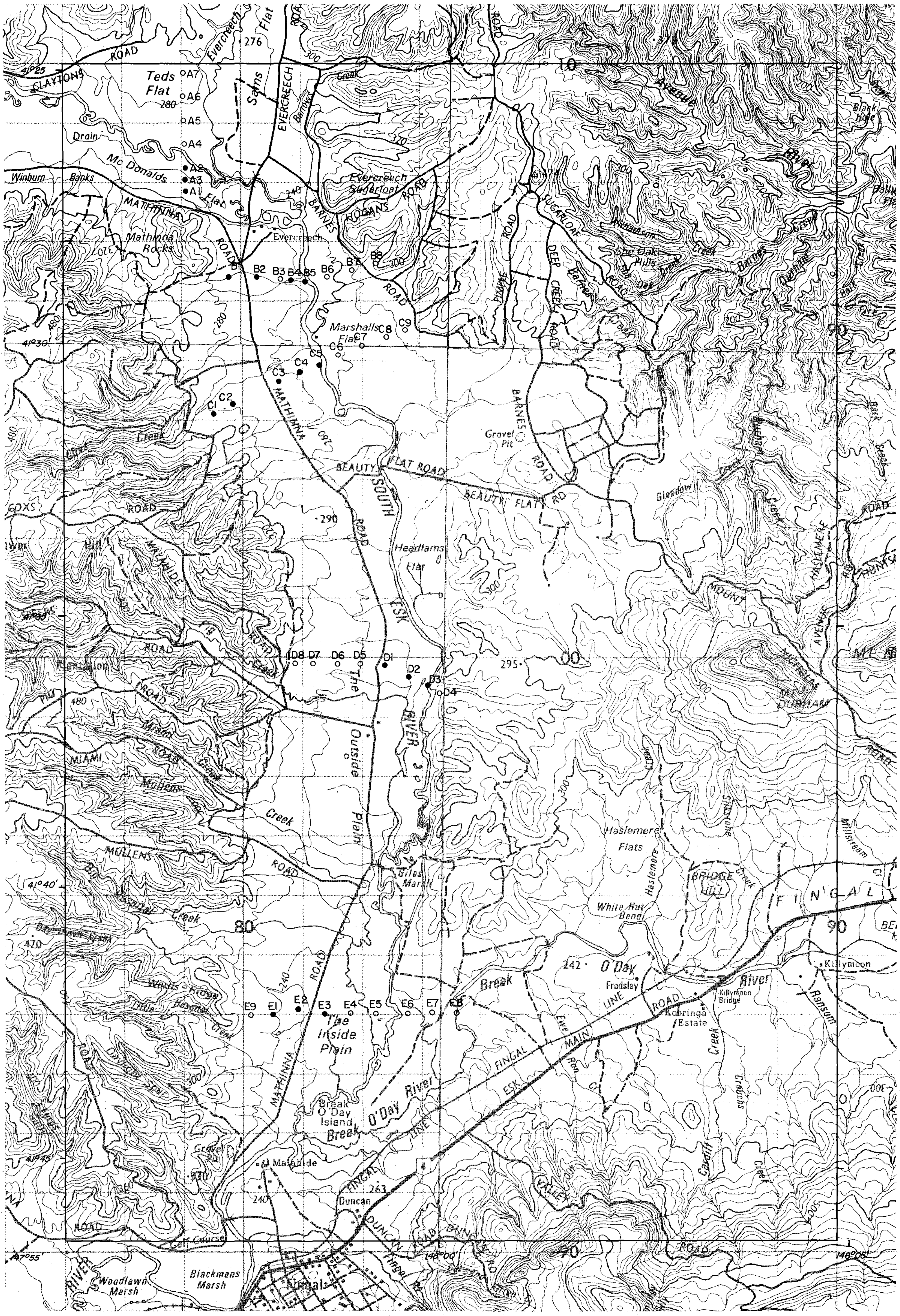
Magnetic traverses, Lines A, B, B1, D, E, F, G, H

SCALE

0 1 2 3 kms

5 cm

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

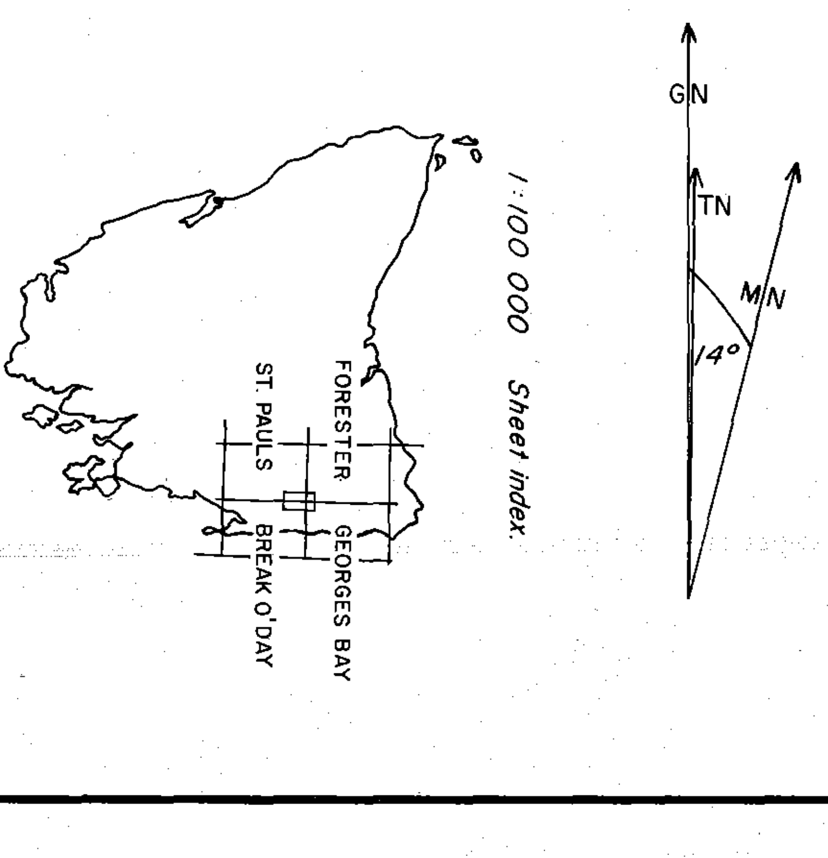


○A1 *Proposed drillhole location and number.*

●B1 *Completed drillhole location and number.*

5 cm

1266



983080

81-1542

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