977001 TCR 81-1548

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PROJECT NAME:

TITLE: SOUTH ESK

MONTHLY PROGRESS REPORT TO DEPARTMENT OF MINES

MARCH 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-9-9, TAS-9-10, TAS-9-11; TAS-9-12 (IN POCKET) TAS-9-13; TAS-9-14.

TABLE NOS:

APPENDICES: Three

AUTHOR/S: B McBride

DATE: 31 March 1981

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

001

SOUTH ESK

MONTHLY PROGRESS REPORT TO DEPARTMENT OF MINES

MARCH 1981

EXPLORATION LICENCE 22/80 TASMANIA

1. INTRODUCTION

Drill sampling of the alluvial material in the South Esk River valley continued. Nine holes were completed and samples despatched for gold content determination. Colours of gold are noted in the logs for four (4) of the holes completed.

The Field Progress Report for March 1981 is attached as an appendix. Geological logs of the holes completed during the month are also attached.

A number of assay results were received during March. Copies of the laboratory result sheets are attached.

2. TENEMENT

Exploration Licence 22/80 was renewed to 28th August 1981 in the name 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

Drilling progress for the Stage 1 sampling programme is shown on plan TAS-9-9.

The following drill holes were completed during the month:- E4, E3A, E5; B1A, B6, B7; C6, C7 and C8.

While casing was stuck in hole E5 the opportunity was taken to drill shallower holes to complete sections along lines B and C. The drill returned to line E to commence hole E6 at the end of the month when extra casing was available.

002

Compass, tape and abney level surveying of the drill lines continued.

4. RESULTS ACHIEVED

Geological sections available to date are attached as plans TAS-9-10 through 14.

Gold content results for panned concentrate samples were received for the following holes:-

C1, C2, C3, C4, C5; D1, D2, D3;
E1, E2, E3, E3A, E4.

Total gold content of the concentrate was determined by normal fire assay. Results were expressed initially as ppm but thereafter as milligrammes of gold.

Laboratory result sheets are attached.

At the present time drilling is too widespaced to attempt any bedrock contouring exercise looking for a channel. Bedrock as shown on cross sections for lines A and B is considered probably in fact to be much shallower due to non-recognition of weathered bedrock early in the drilling programme.

Results from lines C, D and E indicate an increase in thickness of alluvium going south and the possible development of a channel. Intermediate drill lines (and holes) should elucidate the position.

Gold is indicated to be scattered throughout the alluvium but at present no definite pattern can be said to exist.

5. FORWARD PROGRAMME

Complete the Stage 1 drilling programme. Position extra drill lines between lines C and D and lines D and E and probably south of line E. This will enable bedrock contours to be determined in a much more acceptable manner.

A much better idea of the volume of the alluvials will then be available as will the distribution of the gold. Patterns of gold concentration are not expected to be indicated until fill-in drilling is commenced i.e. shortening the interval between holes once valley cross-sections have been established.

B McBride

31.3.81

Approved by

R J Kernick
Exploration Manager

003

SOUTH ESK PROJECT

FIELD PROGRESS REPORT - MARCH 1981

EL 22/80 - TASMANIA

1. SUMMARY

Drill sampling of the alluvials continued. Nine holes were drilled and sampled. Surveying of drill lines A to E was extended.

2. WORK COMPLETED

2.1 Surveying

Tape compass and abney level surveying was continued on Line A from drillhole A2 to 145m north of the river on a bearing of 170° (magnetic).

Line B was surveyed from hole B1 over 1200m bearing 241° (magnetic) and from drillhole B5 over 400m bearing 075° (magnetic). Drillholes B6 and B7 were located 200m and 400m, respectively, from the edge of the river.

Line C was surveyed over a distance of 308m from drillhole C1 bearing 226° (magnetic), and over 623m from the river, bearing 055° (magnetic). Drillholes C6, C7 and C8 were located 100m, 400m and 600m respectively from the river.

Line D was surveyed over a distance of 1175m on the western side of the Mathinna Road, bearing 275° (magnetic). Drillholes D4, D5 and D6 were located 50m, 450m and 750m, respectively, from the road.

This line was also extended across the river from drillhole D3, bearing 075° (magnetic) over a distance of 142m.

Line E was surveyed over 500m bearing 255° (magnetic) from drillhole E1. Drillhole E1-A was positioned 300m from E1 on this line.

2.2 Drilling

Drillhole E4 was completed and drillholes E3-A, E5, B1-A, B6, B7, C6, C7 and C8 were drilled and sampled.

2.2.1 Line B

Drillhole B1-A commenced on 18.3.81 in ochre sands and gravels. The remainder of the material intersected was mainly ochre sandy clay. The hole terminated at 14m in weathered grey shales.

...2.

Drillhole B6 commenced on 15.3.81 in brown sand. Gravels and coarse sands were intersected to 3m and clays to 4.5m. The hole terminated at 5.5m in grey shales.

Drillhole B7 commenced on 16.3.81 in brown sand. Clays and sandy clays were intersected to 5m and the hole terminated at 6m in grey shales.

2.2.2 Line C

Drillhole C6 commenced on 18.3.81 in brown sands and silt. Coarse sands and gravels were intersected between 2 and 6m and clays from 6 to 8m. The hole terminated in weathered grey shales at 9m.

Drillhole C7 commenced on 17.3.81 in brown sands and silt. Coarse sands and gravels were intersected from 2 to 4m and grey clay from 4 to 6m. The hole terminated at 7m in pyritic grey shales with quartz veins.

Drillhole C8 commenced on 16.3.81 in sandy gravels which continued to a depth of 5m. Clays and sandy clays were intersected to 10m and the hole terminated at 11m in grey shale. Several colours of gold were noted in the samplesfrom 1 to 5m.

2.2.3 Line E

Drillhole E4 which commenced on 20.2.81 in brown sands and ochre clays, intersected 4m of gravels and coarse sand and from 6.0m to 28m, grey sandy clays with wood and coal fragments. From 28.0m coarse sands and gravel occurred, with coal fragments and pyrite. At 34.5m core was taken. This included 0.15m of pebbly conglomerate with a quartz and pyrite matrix. The remainder of the core consisted of inconsolidated layers of coarse sand and coal fragments. From 35.5 to 39m, material consisted of grey-black clayey sands, becoming gravelly to 41m. Core was again taken from 41-42m, where the hole was terminated. The core consisted of a conglomerate of quartz and sandstone pebbles and cobbles in a muddy matrix with some pyrite.

Colours of gold were seen in samples from 3-6m, 9-10m, 16-17m and 29-30m.

Drillhole E3A commenced on 27.2.81 in sands and gravels. Coarse sands and gravels were encountered to 7m. Grey clays with coal fragments occurred to 10m. Clays and sands were encountered to 28m. Coal fragments occurred with the sands and clays from 28 to 38m. Gravels occurred with the sands and clays to 41m. The hole was cored from 41-42m. The core recovered was a conglomerate of pebbles, cobbles and boulders in a quartz gravel and silica matrix. Colours of gold were noted in panned concentrtes from samples 5-6m, 11-12m, 13-14m, 16-17m, 18-22m, 23-24m, 25-26m and 34-35m.

...3.

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Drillhole E5 commenced on 5.3.81 in brown sands. Coarse sands and gravels were encountered to 4m, and ochre clays from 4-5m. From 5 to 18m grey clays and sands with coal fragments occurred. Coarse sands and gravels with coal fragments occurred from 18 to 35m.

Pyrite occurred in samples from 26m. The hole was cored from 35-36m. Core recovered was a conglomerate of large pebbles of quartz and sandstone in a quartz gravel matrix. Gold was seen only in one sample, from 24-25m.

3. FUTURE PROGRAMME

Drilling and sampling will continue.

S. M. Douglas

24.3.81

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 31 March 1981 on Exploration Licence No. 22/80 are described in the accompanying report.

2. That in the month of March 1981 we have expended $39 798 on work on Exploration Licence No.22/80 and that this is further broken down into:

	$
(a) Salaries and wages, including technical services	7 027
(b) Contractors,plant,drilling etc	12 188
(c) Management,accounting and Secretarial	6 301
(d) Field expenses, meals accommodation	13 592
(e) Tenement costs	690
(f) Capital expenditure	-
	$39 798

3. That total expenditure upon the Exploration Licence 22/80 to 31 March 1981 is $105 180.

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)
)
this 16th. day of) O. Fonseca.
)
April. 1981)

Before me:

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

977008

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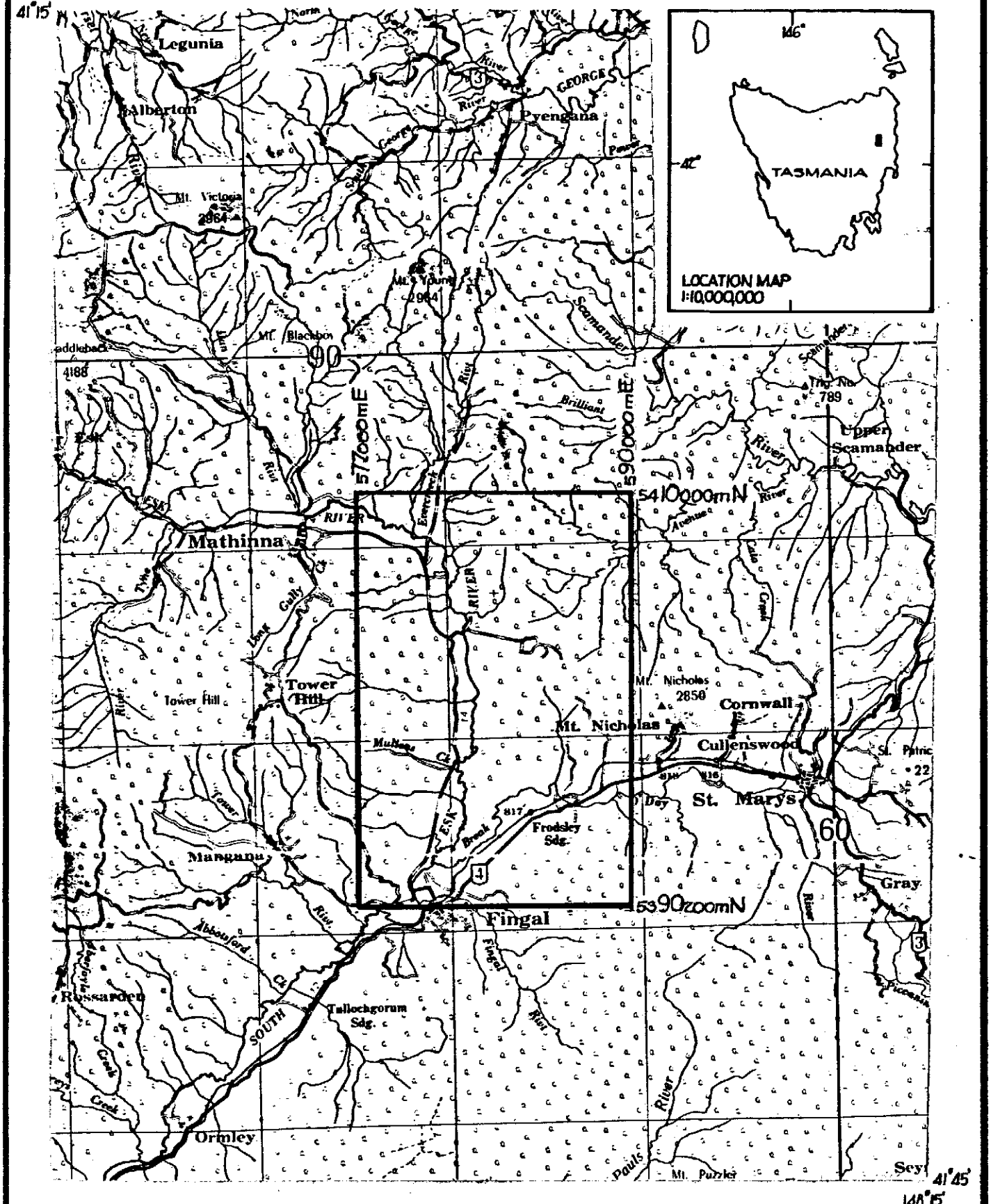


AUSTRALIAN ANGLO AMERICAN LIMITED

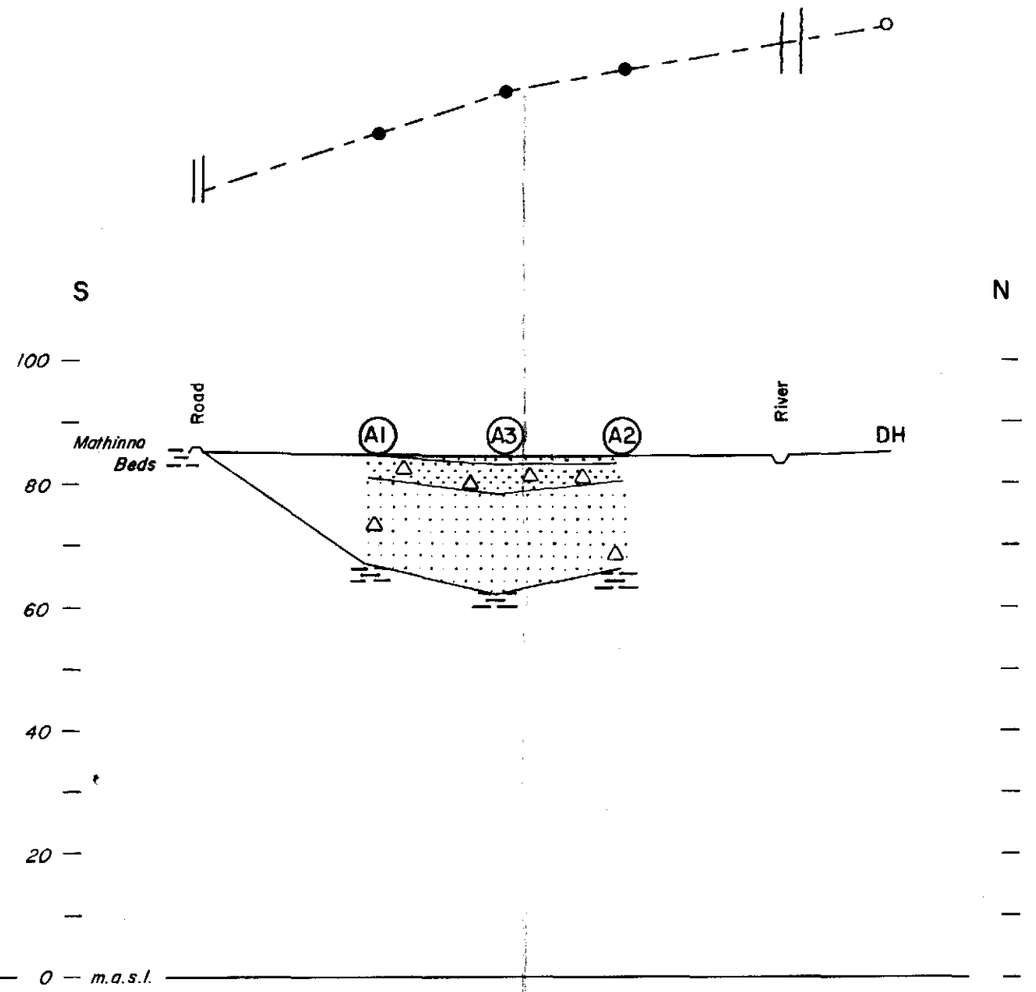
SOUTH ESK PROJECT
EL 22/80 - TASMANIA

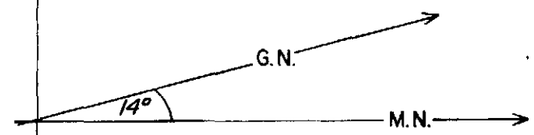
LOCATION MAP

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

008

977009





Clay.

Sandy clay.

Sand

Sand & gravels.

Gravels.

Conglomerate.

Coal fragments.

Shale.

Dolerite.

(A5) Completed drillhole to March 31, 1981.

5 cm

Scale, H. 1cm. = 100m. (1:10 000)
V. 1cm. = 10m. (1: 1 000)

Vertical exageration = 10

AUSTRALIAN ANGLO AMERICAN LIMITED

RESEARCH & TECHNICAL SERVICES DIVISION

SOUTH ESK, EL 22/80

TASMANIA

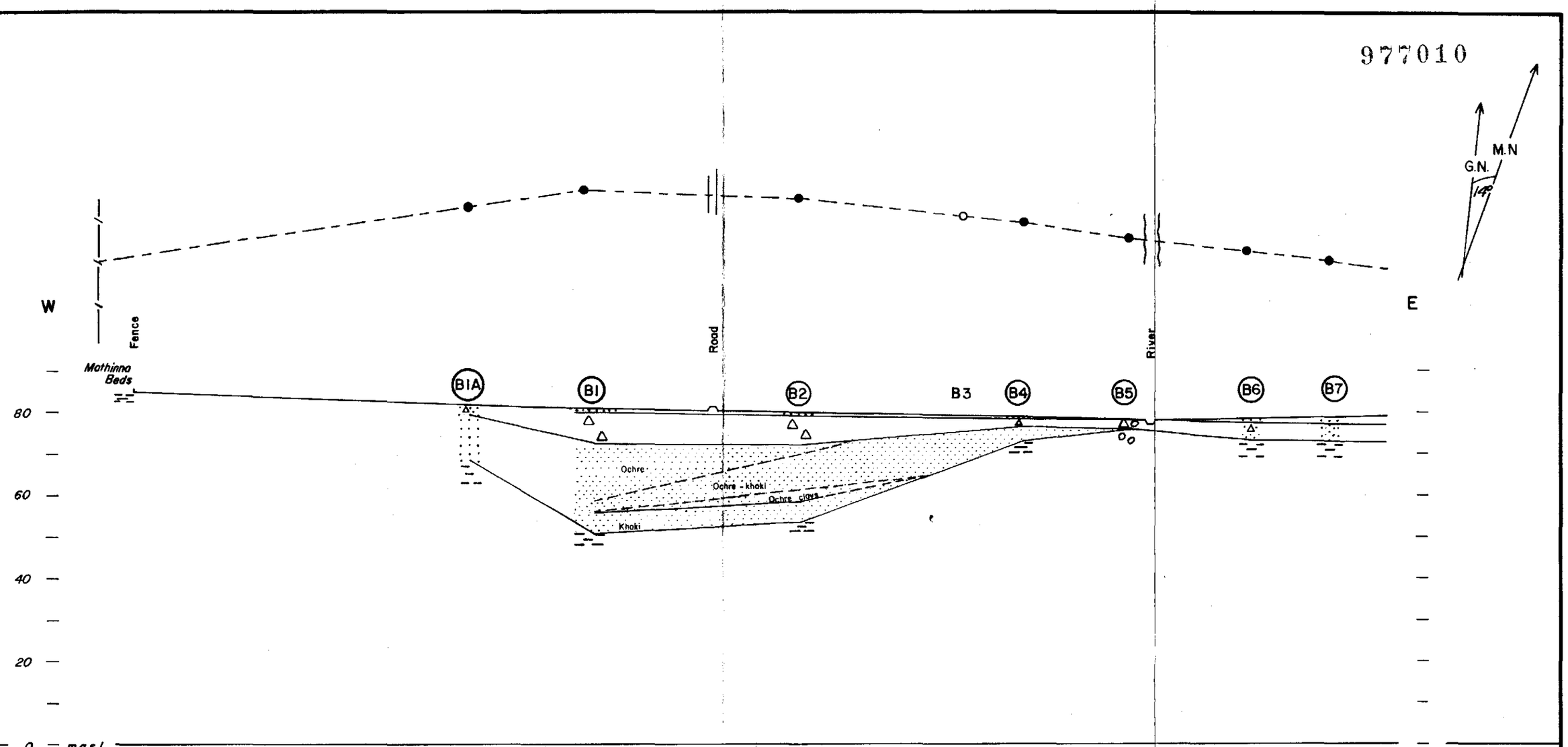
CROSS SECTION

DRILL LINE A

COMPILED	DRAWN	SCALE	
S M D.	L.L. April 1981	As shown	TAS – 9 – 10

009

977010



5 cm

Scale, H. 1cm. = 100m. (1:10 000)
V. 1cm. = 10m. (1: 1 000)

Vertical exageration = 10

Clay.

Sandy clay.

Sand.

Sand & gravels.

Gravels.

Conglomerate.

Coal fragments.

Shale.

Dolerite.

(A5) Completed drillhole to March 31, 1981.

AUSTRALIAN ANGLO AMERICAN LIMITED

RESEARCH & TECHNICAL SERVICES DIVISION

SOUTH ESK, EL 22/80

TASMANIA

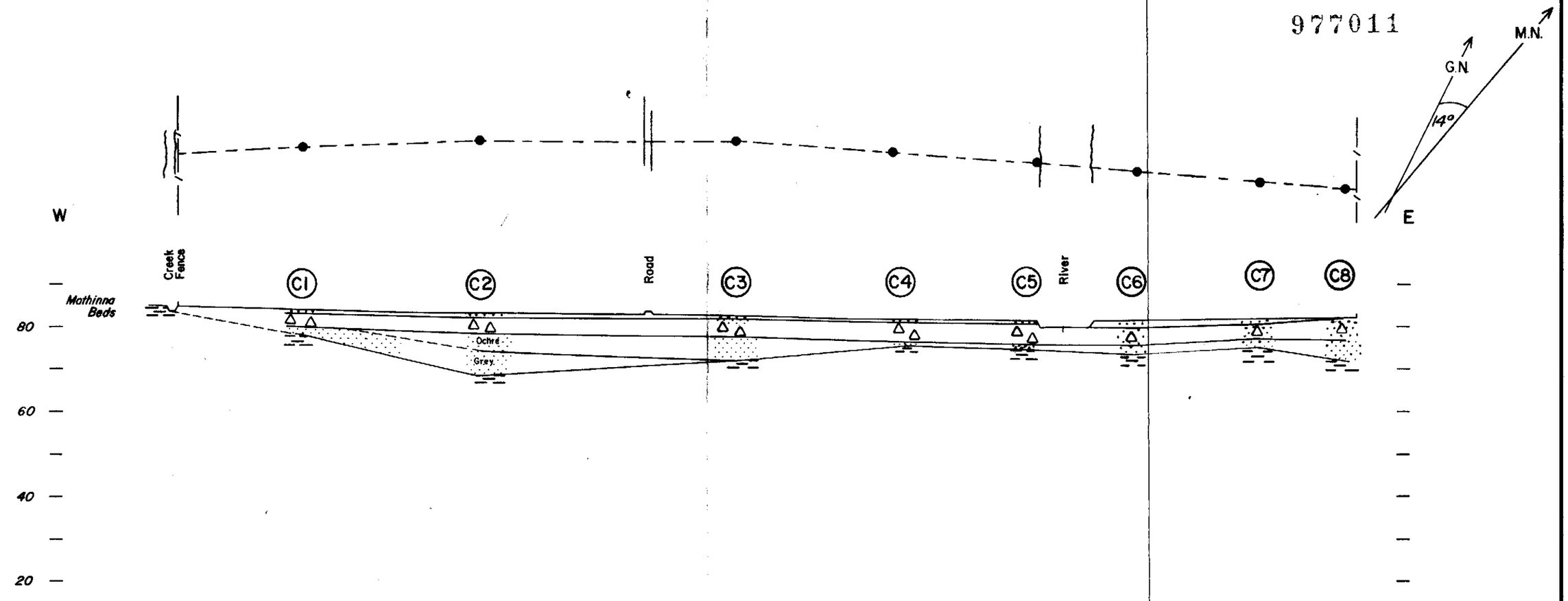
CROSS SECTION

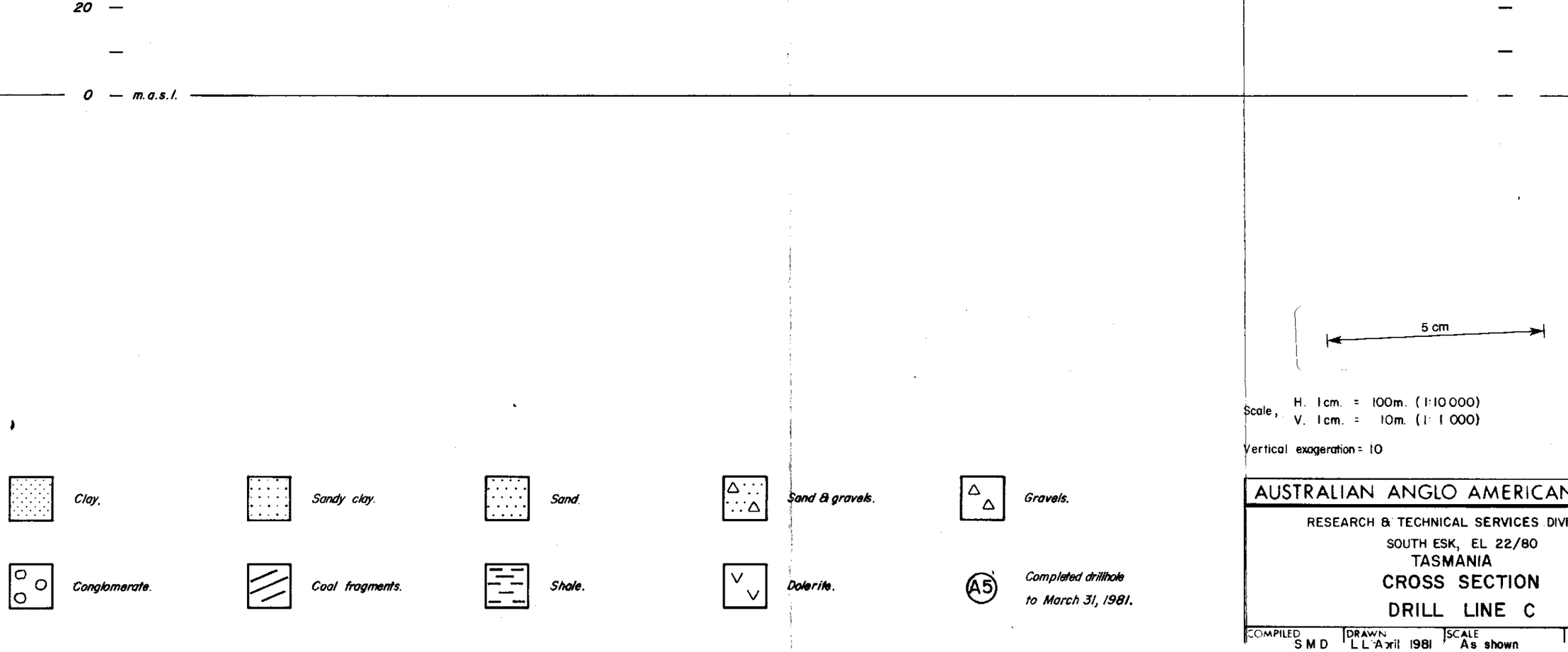
DRILL LINE B

COMPILED	DRAWN	SCALE	
S M D	L L April 1981	As shown	TAS – 9 – 11

010

977011





5 cm

Scale, H. 1cm. = 100m. (1:10 000)
V. 1cm. = 10m. (1: 1 000)

Vertical exageration = 10

AUSTRALIAN ANGLO AMERICAN LIMITED

RESEARCH & TECHNICAL SERVICES DIVISION

SOUTH ESK, EL 22/80

TASMANIA

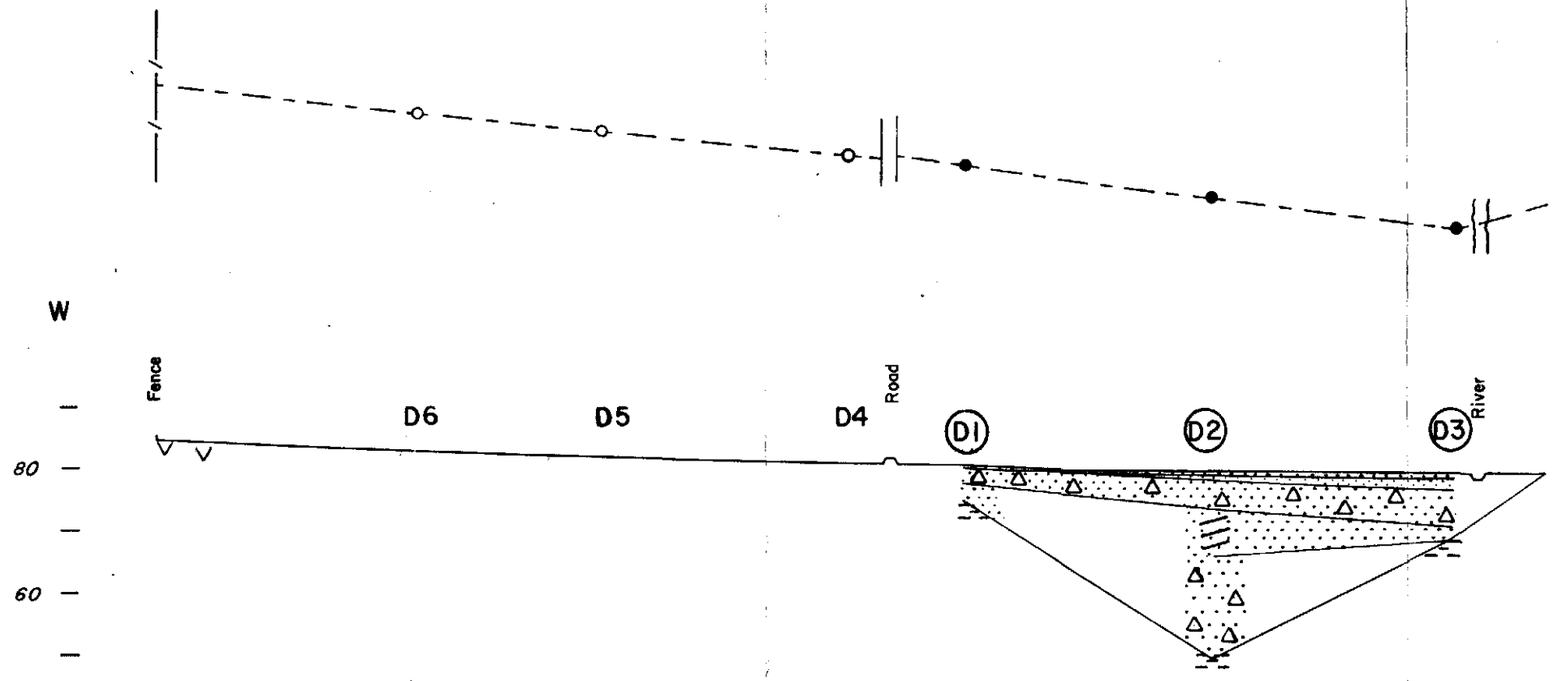
CROSS SECTION

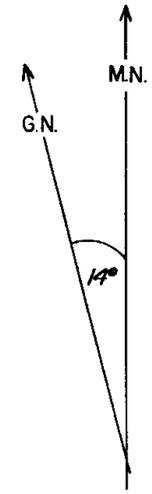
DRILL LINE C

COMPILED	DRAWN	SCALE	
S M D	L L April 1981	As shown	TAS – 9 – 12

011

977012





Clay.

Sandy clay.

Sand.

Sand & gravels.

Gravels.

Conglomerate.

Coal fragments.

Shale.

Dolerite.

(A5) Completed drillhole to March 31, 1981.

5 cm

Scale, H. 1cm. = 100m. (1:10 000)
V. 1cm. = 10m. (1: 1 000)

Vertical exageration = 10

AUSTRALIAN ANGLO AMERICAN LIMITED

RESEARCH & TECHNICAL SERVICES DIVISION

SOUTH ESK, EL 22/80

TASMANIA

CROSS SECTION

DRILL LINE D

COMPILED	DRAWN	SCALE	
S M D	L L April 1981	As shown	TAS – 9 – 13

012

977013

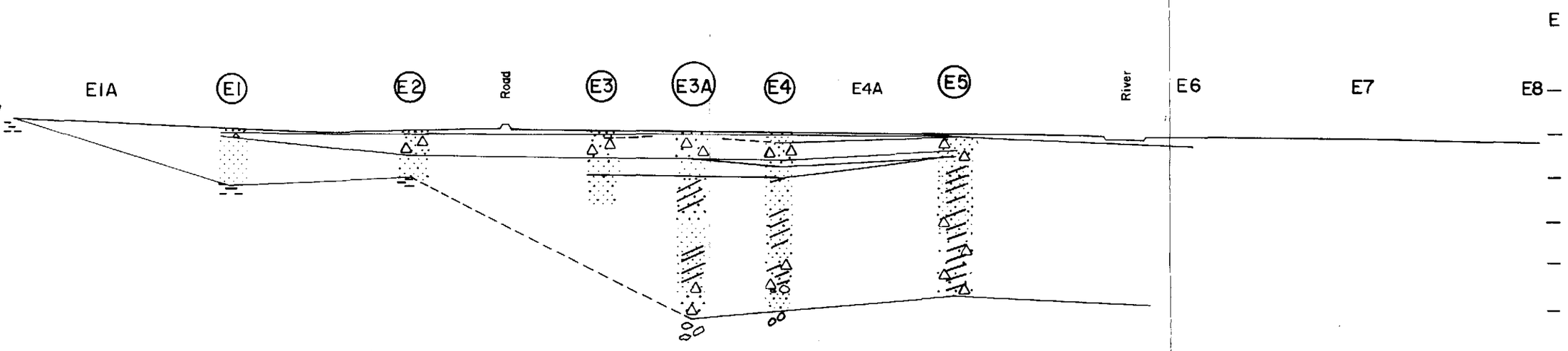
G.N. M.N. 14°

W E

80 60 40 20 0 m.a.s.l.

Mathinna Beds

E1A E1 E2 Road E3 E3A E4 E4A E5 River E6 E7 E8



5 cm

Scale, H. 1cm. = 100m. (1:10 000)
V. 1cm. = 10m. (1: 1 000)

Vertical exageration = 10

Clay. Sandy clay. Sand. Sand & gravels. Gravels.

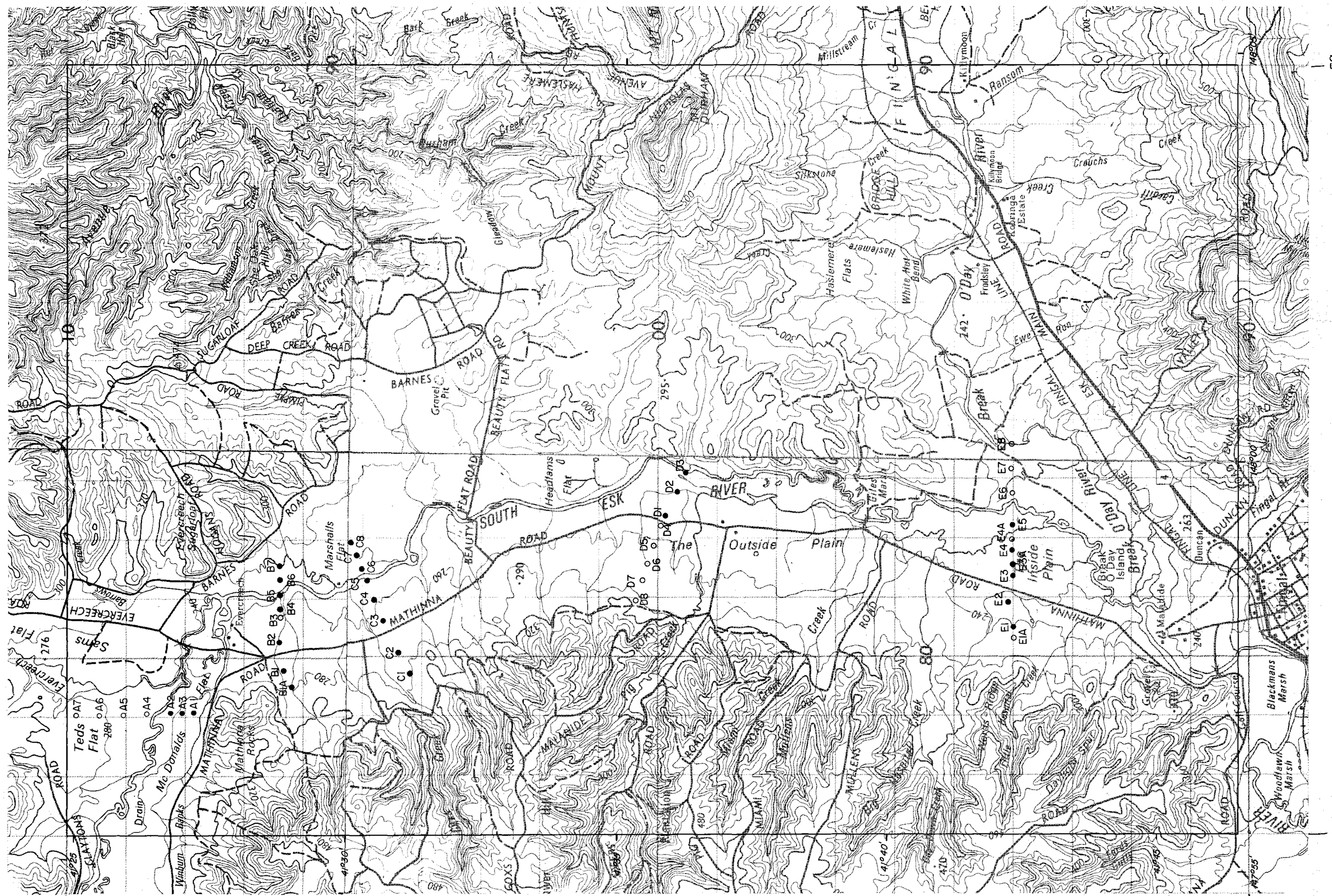
Conglomerate. Coal fragments. Shale. Dolerite. (A5) Completed drillhole to March 31, 1981.

AUSTRALIAN ANGLO AMERICAN LIMITED

RESEARCH & TECHNICAL SERVICES DIVISION
SOUTH ESK, EL 22/80
TASMANIA

CROSS SECTION
DRILL LINE E

COMPILED	DRAWN	SCALE	
S M D	L L April 1981	As shown	TAS – 9 – 14



○A1 Proposed drillhole location and number.

●B1 Completed drillhole location and number.

5 cm

82-1548

1:100 000 Sheet index.

977014

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

013

014

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977015

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SUVA FIJI — Phone SUVA 361712

ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2.01.17245

Client: Australian Anglo American Ltd
581 Little Collins Street
MELBOURNE VIC 3000

Order No. 6719 — Date Received 11.3.81
Reference — Results Required
Delivered by — Total No. of Samples

(2) SAMPLE NUMBERS	STATE OF SAMPLES: Refer to section (5) for terminology	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS: Refer to section (5) for terminology	Preparation	Method	Coefficient of variation (%)
			1			2				2	Au		RG50	

Determine Au content in total concentrate by "Fire Assay".

(3) Number of pages of results: 1

Date Reported: 1-7-81

Results to: (1) Mr Lee (2)

Per: as above

Number of Copies: 3

(4) Remarks: 2. Weigh

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer

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0151

977016

Code No. 6201.17245
Rack No.
Page No.
Order No.

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.					Au ppm		Wt. ASSAYED gm		Au mg
1	SE	C1	Sect.	0	1	x		16.02		nil
2				1	2	0.016		15.76		tr
3				2	3	x		[illegible].03		nil
4				3	4	x		[illegible]4		nil
5				4	5	x		17.34		nil
6				5	6	x		16.92		nil
7				0	6	x		6.55		nil
8	SE	C2	Sect.	0	1	0.008		30.00		tr
9				1	3	x		21.15	—	nil
10				2	3	x		14.84		nil
11				4				22.03		0.03
12				5	6	x		15.33		nil
13				6	7	0.067		13.03		tr
14				7	8	x		14.54		nil
15				8	9	x		17.53		nil
16				9	10	x		10.11		nil
17				10	11	0.050		11.82		tr
18				11	12	0.154		3.23		tr
19				12	13	x		4.30		nil
20										
21										
22										
23										
24										
25										
Detection										
Standard										
Digestion										
Method										

"Determine Au content of total concent 4 by Fire Assay"

RESPONSIBLE OFFICER
18.1.78

[redacted]s in [redacted]nles[redacted]rwis[redacted]ified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

016

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SUVA FIJI — Phone SUVA 361712

ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2 01 17246

Client: Australian Anglo American Ltd
581 Little Collins Street
MELBOURNE VIC 3000

Order No. 6720 Date Received 11.3.81
Reference Results Required
Delivered by Total No. of Samples

SAMPLE NUMBERS	STATE OF SAMPLES: Refer to section (5) for terminology	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS: Refer to section (5) for terminology	Preparation	Method	Coefficient of variation (%)
			1			3				2	Au		RG50	

(3) Number of pages of results: 2
Date Reported: 18-3-81
Results to: (1) Mr Lee (2)
Per: as above
Number of Copies: 3

Remarks: Sample SE/CA/581 3 marked as insufficient sample received for analysis on the first fire assay was unsuccessful. There was no material remaining to do the

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer

977018

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Phone (09) 458 7999
Phone (090) 21 1416
Phone (077) 43 6837
Phone SUVA 361512

Code No. 6.2.001.17246
Rack No.
Page No. 1
Order No.

ASSAY RESULT SHEET

17146

TUBE No.	SAMPLE No.					ppm Au	Wt (gms) SAMPLE	Wt. ASSAYED gm		Au mg / mg Au
1	S6/	C2	Sec1.	13	14	x	4	3.67		nil
2			"	14	15	0.012	20	19.59		tr
3				15	16	0.013	16	15.19		tr
4	S6/	C2	Sec1	0	1	x	17	17.18		nil
5				1	2	x	28	27.77		nil
6				2	3	0.019	27	27.18		tr
7				3	4	1.31	25	25.27		0.03
8				4	5	0.025	23	22.56		tr
9				5	6	0.017	28	26.34		tr
10				6	7	x	19	18.40		nil
11				7	8	x	21	20.42		nil
12				8	9	0.067	21	21.30		tr
13				9	10	0.032	15	14.73		tr
14				10	11	0.476	24	23.59		0.01
15				0	11	0.057	22	21.74		tr
16	S6/	C4	Sec1	0	1	0.040	25	25.09		tr
17				1	2	0.820	22	22.87		0.02
18				2	3	x	41	20.00		nil
19				3	4	Insufficient	29	Sample		
20										
21										
22										
23										
24										
25										
Detection										
Standard										
Digestion										
Method						AAS				

RESPONSIBLE OFFICER 12/3/86

T = element present; but concentration too low to measure
X = element concentration is below detection limit
I = element not determined

018

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977019

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2.01.17247

Client: Australian Anglo American Ltd

581 Little Collins Street — Order No. 6721 — Date Received 11.3.81

MELBOURNE VIC 3000 — Reference — Results Required

Delivered by — Total No. of Samples

SAMPLE NUMBERS	STATE OF SAMPLES (Refer to section (5) for terminology)	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS (Refer to section (5) for terminology)	Preparation	Method	Coefficient of variation (%)
			1			2				2	Au		RG50	

(3) Number of pages of results: 1

Date Reported: 6-7-81

Results to: (1) Mr Lee (2)

Per: as above

Number of Copies: 3

Remarks: 2. Weigh

(5)

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer

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977020

Code No. 6.2.01.17247
Rack No. _____
Page No. _____
Order No. _____

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.					ppm Au	Wt. Assayed gm	mg Au g. m.A
1	SE	C4	Sect.	4	5	27.31	22.52	0.62
2				5	6	x	29.22	nil
3				0	6	x	29.52	nil
4	SE	C5	Sect.	0	1	x	28.47	nil
5				1	2	7.75	14.83	0.11
6				2	3	x	19.58	nil
7				3	3.6	0.205	18.28	0.004
8				4.1	5	6.61	20.05	0.13
9				5	6	90.00	17.96	1.62
10				6	7	63.65	20.74	1.32
11	SE	D1	Sect.	0	1	0.025	30.00	Lo
12				1	2	0.400	25.68	0.01
13				2	3	1.07	19.66	0.02
14				3	4	x	15.71	nil
15				4	5	x	21.77	nil
16				0	5	x	6.78	nil
17	SE	C5	Sect.	0	7	0.994	17.60	0.02
18								
19								
20								
21								
22								
23								
24								
25								
Detection								
Standard								
Digestion								
Method						FA&D		

RESPONSIBLE OFFICER .....

T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2 01 17248

Client: Australian anglo American Ltd
581 Little Collins Street
MELBOURNE VIC 3000

Order No. 6722 Date Received 11.3.81
Reference Results Required
Delivered by Total No. of Samples

SAMPLE NUMBERS	STATE OF SAMPLES (Refer to section (5) for terminology)	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS (Refer to section (5) for terminology)	Preparation	Method	variation (%)
			1			3				2	Au		RG50	

(3) Number of pages of results: 1

Date Reported: 12.3.81

Results to: (1) Mr Lee (2)

Per: as above

Number of Copies: 3

Remarks:

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer

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Code No. 6.201.17248

Rack No.

Page No.

Order No.

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.					ppm Au		Wt. ASSAYED gm		mg Au / mg Au
1	SE	D2	Sect.	0	1	X		14.37		nil
2				1	2	X		22.36		nil
3				2	3	X		20.81		nil
4				3	4	0.033		26.45		tr
5				4	5	47.35		11.51		0.55
6				5	6	X		25.36		nil
7				6	7	X		30.00		nil
8				7	8	5.36		24.23		0.13
9				8	9	X		18.27		nil
10				9	10	0.133		16.22		tr
11				10	11	0.010		19.40		tr
12				11	12	0.033		13.41		tr
13				12	13	0.050		20.30		tr
14				13	14	0.147		28.86		tr
15				14	15	0.181		20.65		tr
16				15	16	X		16.97		nil
17				16	17	X		8.91		nil
18				17	18	1.51		19.76		0.03
19				18	19	0.131		22.86		tr
20				19	20	0.042		30.00		tr
21				20	21	X		15.46		nil
22										
23										
24										
25										
Detection										
Standard										
Digestion										
Method						MSO				

RESPONSIBLE OFFICER .... 18/1/[illegible]

[redacted]s in [redacted] unles[redacted]rwis[redacted]ified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

— = element not determined

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2 01 17249

Client: Australian Anglo American Ltd
581 Little Collins Street
MELBOURNE VIC 3000

Order No. 6723 Date Received 11.3.81
Reference Results Required
Delivered by Total No. of Samples

SAMPLE NUMBERS	STATE OF SAMPLES (Refer to section (5) for terminology)	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS (Refer to section (5) for terminology)	Preparation	Method	Coefficient of variation (%)
			1				3			2	Au		RG50	

(3) Number of pages of results: 1

Date Reported: 18-3-81

Results to: (1) as above (2)

Per: Mr Lee

Number of Copies: 3

(4) Remarks:

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer

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Code No. 62.01.17249
Rack No.
Page No.
Order No.

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.					ppm [illegible]	Wt (gms) SAMPLE	Wt ASSAYED gm		mg Au / mg A
17249 1	SC	D2	Sect	21	22	0.222	30	26.95		0.01
2				22	23	0.032	32	19.49		tr
3				23	24	0.024	32	29.12		tr
4				24	25	0.035	24	21.79		tr
5				25	26	0.017	34	30.00		tr
6				26	27	0.022	29	22.04		tr
7				27	28	0.050	33	27.77		tr
8				28	29	0.0[illegible]	40	30.00		tr
9				29	30	0.933	58	30.00		0.03
10				0	30	0.008	53	30.00		tr
11	SC	D3	Sect.	0	1	0.050	28	26.41		tr
12				1	2	0.010	23	21.25		tr
13				2	3	0.030	21	19.90		tr
14				3	4	x	27	25.04		nil
15				4	5	1.21	25	22.66		0.03
16				5	6	0.017	28	22.00		tr
17				6	7	0.132	27	22.74		tr
18				7	8	0.025	32	26.62		tr
19				8	9	0.020	20	18.00		tr
20										
21										
22										
23										
24										
25										
Detection										
Standard										
Digestion										
Method						AA50				

RESPONSIBLE OFFICER [signature] 12.2.8[illegible]

[redacted]s in [redacted] unless [redacted]wise [redacted]fied
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2 01 17250

Client: Australian Anglo American Ltd
581 Little Collins Street
MELBOURNE VIC 3000

Order No. 6724 Date Received 11.3.81
Reference Results Required
Delivered by Total No. of Samples

SAMPLE NUMBERS	STATE OF SAMPLES (Refer to section (5) for terminology)	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS (Refer to section (5) for terminology)	Preparation	Method	Coefficient of variation (%)
			1			3				2	Au		RG50	

(3) Number of pages of results: 1

Date Reported: 18-3-81

Results to: (1) as above (2)

Per:

Number of Copies: 3

Remarks:

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer

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977026

Code No. 6.20.17250

Rack No. _____

Page No. _____

Order No. _____

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.					Au ppm	Wt. gm	mg Au / mg Ag
1	SL	D3	Sec1	9	10	x	23.72	nil
2				10	11	x	15.12	nil
3				0	11	x	14.45T	nil
4	SL	E1	Sec1	0	1	x	18.55T	nil
5				1	2	0.018	22.17	tr
6				2	3	0.008	28.19	tr
7				3	4	x	27.05T	nil
8				4	5	0.017	22.45T	tr
9				5	6	0.032	27.06	tr
10				6	7	x	18.10	nil
11				7	8	0.358	14.71	0.01
12				8	9	x	9.50	nil
13				9	10	x	17.45T	nil
14				10	11	x	12.85T	nil
15				11	12	0.025T	18.56	tr
16				12	13	x	20.70	nil
17				0	13	x	30.00	nil
18								
19								
20								
21								
22								
23								
24								
25								
Detection								
Standard								
Digestion								
Method							FA&AA	

RESPONSIBLE OFFICER .....

T = element present; but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2.01.17411

Client: Australian Anglo American Ltd

581 Little Collins Street — Order No. 6725 — Date Received 19.3.81

MELBOURNE VIC 3000 — Reference — Results Required

Delivered by — Total No. of Samples

SAMPLE NUMBERS	STATE OF SAMPLES (Refer to section (5) for terminology)	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS (Refer to section (5) for terminology)	Preparation	Method	% of variation (%)
SE/E2/SECT 0-1											Au		RG50	
3/SECT 8-9														

(3) Number of pages of results: 1

Date Reported: 26-3-81

Results to: (1) as above (2)

Per:

Number of Copies: 3

Remarks:

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer.....

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Code No. 6201.17411
Rack No.
Page No.
Order No.

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.				ppm F in			Ln ppm ASSAYED Cu		
1	E2	CON	0	10	x			22.48		
2	E3	CON	0	1	x			22.05		
3			1	2	x			30.74		
4			2	3	x			23.00		
5			3	4	2.75			19.07		
6			4	5	x			20.73		
7			5	6	x			25.84		
8			6	7	x			24.45		
9			7	8	0.070			17.83		
10			8	9	x			16.58		
11			9	10	x			23.61		
12			10	11	x			27.22		
13			11	12	10.38			19.50		
14			12	13	x			15.91		
15			13	14	x			15.86		
16			14	15	x			13.12		
17			15	16	x			25.48		
18			0	16	x			23.16		
19										
20										
21										
22										
23										
24										
25										
Detection										
Standard										
Digestion										
Method						AL 02				

RESPONSIBLE OFFICER 7.6.17

T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2.01 17412

Client: Australian Anglo American Ltd

581 Little Collins Street — Order No. 6726 — Date Received 19.3.81

MELBOURNE VIC 3000 — Reference — Results Required

Delivered by — Total No. of Samples

SAMPLE NUMBERS	STATE OF SAMPLES: Refer to section (5) for terminology	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS: Refer to section (5) for terminology	Preparation	Method	Coefficient of variation (%)
SE/E5 1-10											Au		RG50	
3A 11-12														

(3) Number of pages of results: 1

Date Reported: 26-3-81

Results to: (1) as above (2)

Per: W. Lee

Number of Copies: 3

Remarks:

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer

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977030

Code No. 6.2.01.17412
Rack No.
Page No.
Order No.

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.				ppm Au			Wt. gm Assayed		
1	EJA	COH.	0	1	x			26.10		
2			1	2	x			19.10		
3			2	3	x			8.50		
4			3	4	x			10.92		
5			4	5	x			10.00		
6			5	6	6.33			12.94		
7			6	7	x			13.76		
8			7	8	x			9.71		
9			8	9	x			16.22		
10			9	10	x			22.42		
11			10	11	1.97			16.53		
12			11	12	0.010			28.07		
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
Detection										
Standard										
Digestion										
Method										

RESPONSIBLE OFFICER ....

[redacted]s in [redacted]nles[redacted]rwis[redacted]ified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

ANALABS (AUST.) PTY. LTD.

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2 01 17413

Client: Australian Anglo American Ltd

581 Little Collins Street

MELBOURNE VIC 3000

Order No. 6727 Date Received 19.3.81

Reference: Results Required:

Delivered by: Total No. of Samples:

SAMPLE NUMBERS	STATE OF SAMPLES: Refer to section (5) for terminology	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS: Refer to section (5) for terminology	Preparation	Method	Coefficient of variation (%)
SE/E3A/12 - 12											Au		RG50	
32 - 33														

(3) Number of pages of results: 1

Date Reported: 20.3.81

Results to: (1) as above (2)

Per: W Lee

Number of Copies: 3

(4) Remarks:

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer

ANALABS
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44 Lane Street, Kalgoorlie, W.A. 6430
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30 Toti Street, Wailada, Suva, Fiji

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Phone (090) 21 1416
Phone (077) 43 6837
Phone SUVA 361512

9 7032

Code No. 6.2.01.1743
Rack No.
Page No.
Order No.

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.				ppm Au			gm Assay/40 gm
1	EJA	COH	12	13	X			15.04
2			13	14	X			30.00
3			14	15	0.022			14.99
4			15	16	0.017			17.62
5			16	17	14.71			16.31
6			17	18	0.024			10.23
7			18	19	0.025			17.28
8			19	20	2.20			11.14
9			20	21	0.016			15.27
10			21	22	0.740			15.20
11			22	23	0.280			12.40
12			23	24	1.47			22.89
13			24	25	X			12.25
14			25	26	X			18.37
15			26	27	0.010			12.03
16			27	28	X			12.64
17			28	29	X			17.28
18			29	30	X			15.01
19			30	31	X			12.96
20			31	32	0.015			16.71
21			32	33	X			15.82
22								
23								
24								
25								
Detection								
Standard								
Digestion								
Method								

RESPONSIBLE OFFICER

T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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977033

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2 01 17414

Client: Australian Anglo American Ltd

581 Little collins Street

MELBOURNE VIC 3000

Order No. 6728 Date Received 19.3.81

Reference: Results Required:

Delivered by: Total No. of Samples:

SAMPLE NUMBERS	STATE OF SAMPLES (Refer to section (5) for terminology)	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS (Refer to section (5) for terminology)	Preparation	Method	Coefficient of variation (%)
SE/E5A/33 - 34											Au		RG50	
0 - 42														

(3) Number of pages of results: 1

Date Reported: 26.3.81

Results to: (1) as above (2)

Per: W Lee

Number of Copies: 3

Remarks:

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized

Offi

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977034

Code No. 6-2-01.17414
Rack No.
Page No.
Order No.

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.				Au ppm			Wt. gm		
1	L23A	COM	23	24m	x			11.98		
2			24	25	24.31			8.89		
3			25	26	0.707			5.55		
4			26	27	x			13.06		
5			27	28	x			4.41		
6			28	29	x			16.58		
7			29	40	0.406			16.62		
8			40	41	x			23.17		
9			41	42	x			6.33		
10			0	42	1.11			17.30		
11	L4	COM	0	1	0.058			17.10		
12			1	2	x			15.93		
13			2	3	x			16.77		
14			3	4	0.658			20.11		
15			4	5	74.00			18.55		
16			5	6	8.82			18.1		
17			6	7	x			15.71		
18			7	8	x			8.40		
19			8	9	x			9.00		
20			9	10	11.47			45.07		
21										
22										
23										
24										
25										
Detection										
Standard										
Digestion										
Method					FA/AA					

RESPONSIBLE OFFICER

T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

ANALABS (AUST.) PTY. LTD.

977035

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2 01 17415

Client: Australian Anglo American Ltd

581 Little Collins Street

MELBOURNE VIC 3000

Order No. 6729 Date Received 19.3.81

Reference Results Required

Delivered by Total No. of Samples

SAMPLE NUMBERS	STATE OF SAMPLES: Refer to section (5) for terminology	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS: Refer to section (5) for terminology	Preparation	Method	Coefficient of variation (%)
SE/E4/ 10 - 11											Au		RG50	
30 - 31														

(3) Number of pages of results: 1

Date Reported: 26-3-81

Results to: (1) as above (2)

Per: W Lee

Number of Copies: 3

Remarks:

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	jgnition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized Officer

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977036

Code No. 6.2.01.1741S

Rack No. _____

Page No. 1

Order No. _____

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.				Au ppm			Ag ppm		
1	L2	CON	0	1	X			15.92		
2			1	2	2.46			24.26		
3			2	3	0.964			29.29		
4			3	4	X			24.62		
5			4	5	X			30.10		
6			5	6	1798			24.19		
7			6	7	3.65			24.00		
8			7	8	X			21.30		
9			8	9	X			19.72		
10			9	10	X			16.02		
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
Detection										
Standard										
Digestion										
Method										

RESPONSIBLE OFFICER _____ 7/2/91

T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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977037

Code No. 62.01.17415
Rack No.
Page No. 2
Order No.

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.				Au (ppm)	Au (mg)	Lx.	ASSAY (C) gm		
1	E4	CON	10	11	X	—		27.32		
2			11	12	X	—		17.94		
3			12	13	0.011	0.0002		19.59		
4			13	14	X	—		20.05		
5			14	15	X	—		25.36		
6			15	16	X	—		17.50		
7			16	17	19.70	0.4200		21.32		
8			17	18	X	—		20.75		
9			18	19	X	—		19.87		
10			19	20	X	—		39.12		
11			20	21	X	—		37.65		
12			21	22	X	—		33.41		
13			22	23	X	—		35.96		
14			23	24	X	—		35.65		
15			24	25	X	—		14.28		
16			25	26	1.61	0.0291		18.06		
17			26	27	0.008	0.0002		25.62		
18			27	28	X	—		18.82		
19			28	29	0.017	0.0002		13.35		
20			29	30	7.20	0.1750		24.31		
21			30	31	0.017	0.0004		25.40		
22										
23										
24										
25										
Detection										
Standard										
Digestion										
Method										

RESPONSIBLE OFFICER [signature]
26-1-86

[redacted]s in [redacted] unles[redacted]rwis[redacted]ified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL REPORT

This report must be read in conjunction with the results given for JOB No. 6.2.01 17416

Client: Australian Anglo American Ltd
581 Little Collins Street — Order No. 6730 — Date Received 19.3.81
MELBOURNE VIC 3000 — Reference — Results Required
Delivered by — Total No. of Samples

SAMPLE NUMBERS	STATE OF SAMPLES: Refer to section (5) for terminology	Average Weight	PRETREATMENT: Dry	Crush	Split	Pulverize	Sieve	Evaporate	Other (see remarks)	None	ANALYSIS: Refer to section (5) for terminology	Preparation	Method	Coefficient of variation (%)
SE/E4 31 - 32											Au		RG50	
0 - 41														

(3) Number of pages of results: 1

Date Reported: 26-3-81

Results to: (1) as above (2)

Per: W Lee

Number of Copies: 3

Remarks:

STATE OF SAMPLES		ANALYSIS – PREPARATION				ANALYSIS – METHOD	
whole core	WC	*perchloric acid*	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	*nitric acid*	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	*titration*	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM						

Authorized

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977039

Code No. 6201.17416
Rack No.
Page No.
Order No.

ASSAY RESULT SHEET

TUBE No.	SAMPLE No.				Au ppm		Lot.	1735A / CD gm		
1	E4	CON.	31	32	X			32.40		
2			32	33	0.076			16.76		
3			33	34	0.125			28.65		
4			34	35.5	1.74			17.38		
5			35.5	36	X			21.05		
6			36	37	0.577			11.70		
7			37	38	X			11.87		
8			38	39	0.302			14.05		
9			39	40	X			12.35		
10			40	41	0.877			21.09		
11			0	41	0.498			28.63		
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
Detection										
Standard										
Digestion										

RESPONSIBLE OFFICER 7/6/87

[redacted]s in [redacted] unles[redacted]rwis[redacted]ified
= element present; but concentration too low to measure
= element concentration is below detection limit
= element not determined

[redacted]it. 039

ANALABS

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977040

Code No. 62 01 1411-6
Rack No.
Page No.
Order No. [illegible]-30

GEOCHEMICAL RESULT SHEET

TUBE No.	SAMPLE No.		Au (mg)				Au (mg)			
1	E2 CON	0-0	X		E3A CON	7-8	X			
2	E3 CON	0-	X			8-9	X			
3		1-2	X			9-10	X			
4		2-3	X			10-11	0.0327			
5		3-4	0.0024			11-12	0.0003			
6		4-5	X			12-13	X			
7		5-6	X			13-14	X			
8		6-7	X			14-15	0.0005			
9		7-8	0.0012			15-16	0.0003			
10		8-9	X			16-17	0.2399			
11		9-10	X			17-18	0.0002			
12		10-11	X			18-19	0.0004			
13		11-12	0.7024			19-20	0.0245			
14		12-13	X			20-21	0.0002			
15		13-14	X			21-22	0.0112			
16		14-15	X			22-23	0.0038			
17		15-16	X			23-24	0.0336			
18		0 6	X			24-25	X			
19	E3A CON	0-1	X			25-26	X			
20		1-2	X			26-27	0.0001			
21		2-3	X			27-28	X			
22		3-4	X			28-29	X			
23		4-5	X			29-30	X			
24		5-6	0.1199			30-31	X			
25		6-7	X			31-32	0.0003			
Detection										
Standard										
Digestion										
Method										

RESPONSIBLE OFFICER [signature] 27/3/81

[redacted] in ppm unless [redacted] specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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977041

Code No. 62 01 170116
Rack No.
Page No.
Order No. 1725 · 30

GEOCHEMICAL RESULT SHEET

TUBE No.	SAMPLE No.		Au (mg)				Au (mg)			
1	E3A CON	32-33	X		E4 CON	35.5-36	X			
2		33-34	X			36 37	0 0068			
3		34-35	0.3050			37-38	X			
4		35-36	0.0068			38 39	0.0042			
5		36 37	X			39-40	X			
6		37-38	X			40-41	0.0135			
7		38 39	X			0 41	0.0143			
8		39-40	0.0067		E2 CON	0-1	X			
9		40-41	X			1-2	0 0599			
10		41-42	X			2-3	0 0232			
11		0 42	0.0192			3-4	X			
12	E4 CON	0-1	0.0010			4-5	X			
13		1-2	X			5-6	0 4349			
14		2-3	X			6 7	0 0376			
15		3-4	0.0132			7-8	X			
16		4-5	1.3757			8-9	X			
17		5-6	0.1599			9-10	X			
18		6 7	X							
19		7-8	X							
20		8-9	X							
21		9-10	0.5170							
22		31-32	X							
23		32-33	0.0012							
24		33-34	0 0036							
25		34-35.5	0 0302							
Detection										
Standard										
Digestion										
Method										

RESPONSIBLE OFFICER [signature]
27.3.81

ts in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUSTRALIAN ANGLO AMERICAN LIMITED

041

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

Bore no.: B1-9 Commenced time: 3.45PM Date: 18.3.81 Machine: GEMCO 210B Casing shoe diameter: External 9.0cm Internal 7.5cm SHEET 1/2

Off-set: — Completed time: 6.00PM Date: 19.3.81 Foreman panner: A.JACKSON Supervisor: S.DOUGLAS

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 +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	Ochre sands & gravels	F			7.0	7.0		13.3										Cased only
1-2	1	" " "	F			7.0	14.0		17.5										Drilled then cased.
2-3	1	Ochre clays	M			6.0	20.0		9.3										" " "
3-4	1	Ochre sandy clays	M			7.0	27.0		11.2										
4-5		" " "	M			7.0	34.0		12.9										
5-6		" " "	M			8.0	42.0		15.7										
6-7		" " "	M			9.0	51.0		17.7										
7-8		" " "	M			7.0	58.0		10.2										
8-9		" " "	M			6.0	64.0		9.4										
9-10		" " "	M			6.0	70.0		10.9										

Bottomed / ~~Abandoned~~ at 14.0 metres on Mathinna Beds bedrock

Average field grade _____ g. per cu. m.

9770142

977042A

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV. GRADE TO BEDROCK	ass. conc. at 72% Sn (g/cu m)	gold (mg/cu m)	silver (mg/cu m)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt(%)	ASSAY RESULTS (ppm)			
		Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

042

PROSPECT: EL 22/80 AREA: SOUTH EAST STATE: TASMANIA SHEET 2/2

Bore no.: B1-A 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 g	-20 g							
10-11		Ochre sandy clays	M			7.0	77.0		13.0										
11-12		" " "				10.0	87.0		17.7										
12-13		" " "				5.0	92.0		9.9										
13-14		Weathered, grey																	CORED Recovered 1.0m.
		laminated shales																	
		EOH SILTS				4.0	96.0		6.7										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

9770A3

9770431A

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g.per cu.m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu.m.)	gold (mg/cu.m.)	silver (mg/cu.m.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt(%)	ASSAY RESULTS (ppm)		
		Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tornaline	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

977044

043

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

BORE NUMBER ... B1-A ... RECORDED BY .. A. JACKSON .....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		—	-10mm to -20# (Kg)	—	
0-1	13.3		6.8		6.8
1-2	17.8		5.3		12.2
2-3	9.3		1.7		7.6
3-4	11.2		0.5		10.7
4-5	12.9		1.2		11.7
5-6	15.7		1.5		14.2
6-7	17.7		1.2		16.5
7-8	10.2		0.5		9.7
8-9	9.4		0.7		8.7
9-10	10.9		1.7		9.2
10-11	13.0		0.8		12.2
11-12	17.7		0.7		17.0
12-13	9.9		0.5		9.4
EOH SILTS.	6.7		0.7		6.0

044

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: EL22/80 AREA: SOUTH ESK STATE: TASMANIA

Bore no.: B6 Commenced time: 2.00 PM Date: 15·3·81 Machine: GEMCO 810B Casing shoe diameter: External 9.0cm Internal 7.5cm

Off-set: — Completed time: 6.00 PM Date: 15·3·81 Foreman panner: A. JACKSON Supervisor: S. DOUGLAS

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 (1000 tns. cu.m.)	ACTUAL VOLUME cum (1000 tns. cum.)	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 & silt	F			7.0	7.0		10.3										Cased only
1-2	1	Brown Sandy gravels	F			8.5	15.5		14.7										Drilled, then cased. (1 colour)
2-3	1	Course gravels & chips of quarts, sandstone shale & dolerite	F			10.0	25.5		19.0										
3-4	1	Grey clayey sands	M			10.0	35.5		18.4										
4-4.5	0.5	Grey sandy clay	M			3.0	38.5		5.7										
4.5-5.5	1	Black laminated shales																	Cored. Recovered 1.0m.
		EOH BILLS				3.0	41.5		4.9										

Bottomed / [redacted] at 4.0 metres on Mathinna Beds bedrock

Average field grade _____ g. per cu. m.

97703

9770451

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc at 72% Sn (g/cu m.)	gold (mg/cum.)	silver (mg/cum)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt(%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

977046

045

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER....B6..... RECORDED BY....A.JACKSON.....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
			-10mm + -20# (Kg)		
0-1	10·3		3·8		6·5
1-2	14·7	1 COLOUR	8·3		6·4
2-3	19·0		14·1		4·9
3-4	18·4		9·3		9·1
4-4·5	5·7		1·9		3·8
EOH. SILTS	4·9		0·5		4·4

AUSTRALIAN ANGLO AMERICAN LIMITED

046

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

Bore no.: B7 Commenced time: 8.15AM Date: 16.3.81 Machine: GEMCO 2108 Casing shoe diameter: External 9.0cm Internal 7.5cm

Off-set: — Completed time: 2.00PM Date: 16.3.81 Foreman panner: A. JACKSON Supervisor: B. 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			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 #							
0-1	1	Brown sand & silt	F			5.0	5.0		10.0										Cased only.
1-2	1	Ochre clays	S			7.0	12.0		10.7										Drilled then cased.
2-3	1	Ochre sandy clays	M			9.0	21.0		12.1										
3-4	1	" " "	M			7.0	28.0		12.8										
4-5	1	Grey-ochre clay	S			1.0	29.0		1.9										
5-6	1	Grey laminated shales																	CORED. Recovered 0.4m.
		EOH silts				2.0	31.0		1.3										

Bottomed / [redacted] at 5.0 metres on Mathinna Shales bedrock.

Average field grade _____ g. per cu. m.

9270047

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			

AV GRADE TO BEDROCK	cass conc at 72% Sn (g/cu m)	gold (mg/cu.m.)	silver (mg/cu.m.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt (%)	ASSAY RESULTS (ppm)			
		Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE		
	MINERAL	wt (%)
	Cassiterite	
	Ilmenite	
	Zircon	
	Monazite	
	Pyrite	
	Gold	
	Tantalite	
	Others	
	TOTAL	

Remarks:

047

977049

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER. B7 RECORDED BY. A. JACKSON

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
			-10mm to -20# (Kg)		
0-1	10.0		2.0		8.0
1-2	10.7		1.0		9.7
2-3	12.1		1.4		10.7
3-4	12.8		2.6		10.2
4-5	1.9		0.2		1.7
EOH SILTS	1.3		0.1		1.2

AUSTRALIAN ANGLO AMERICAN LIMITED

048

PROSPECT: EL 2280 AREA: SOUTH ESK STATE: TASMANIA

Bore no.: C6 Commenced time: 9.30 AM Date: 18.3.81 Machine: GEMCO 2108 Casing shoe diameter: External 9.0 cm, Internal 7.5 cm

Off-set: — Completed time: 2.15 PM Date: 18.3.81 Foreman penner: A. JACKSON Supervisor: S. DOUGLAS

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 (1000 tns. cu.m.)	ACTUAL VOLUME cum. (1000 tns. 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 sand & silt	F			6.0	6.0		6.3										Cased only.
1-2	1	" " "	F			7.0	13.0		9.8										Dolled then cased.
2-3	1	Coarse gravels of dolerite & sandstone	F			0.5	13.5		2.4										
3-4	1	Sandy gravels	F			4.0	17.5		5.7										
4-5	1	" "	F			5.0	22.5		8.8										
5-6	1	" "	F			10.0	32.5		17.6										
6-7	1	Grey sandy clays	M			5.0	37.0		9.1										
7-8	1	Grey clay	S			2.0	39.0		3.5										
8-9	1	Weathered grey shales																	Cored. Recovered 1.0m.
		EOH Bits				5.0	44.0		8.2										

Bottomed / [redacted] at 8.0 metres on Mahanna bedrock Shales

Average field grade _____ g. per cu. m.

92050

977051

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV. GRADE TO BEDROCK	cass. conc at 72% Sn (g/cu m.)	gold (mg/cum.)	silver (mg/cum)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt(%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

049

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

977052

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

BORE NUMBER .... C6 .... RECORDED BY ... A. JACKSON .....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels	-10mm to +20# (Kg)		Clay (Kg)
0-1	6·3		1·5		4·8
1-2	9·8		3·0		6·8
2-3	2·4		0·4		2·0
3-4	5·7		3·8		1·9
4-5	8·8		6·2		2·6
5-6	17·6		9·8		7·8
6-7	9·1		2·8		6·3
7-8	3·5		0·6		2·9
EOH SILTS	8·2		0·9		7·3

AUSTRALIAN ANGLO AMERICAN LIMITED

050

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

Bore no.: C 7 | Commenced time: 2:00PM | Date: 17·3·81 | Machine: GEMCO 210B | Casing shoe diameter: External 9·0cm, Internal 7·5cm | SHEET 1/1

Off-set: — | Completed time: 9·30AM | Date: 18·3·81 | Foreman panner: A. JACKSON | Supervisor: S. DOUGLAS

Collar level:

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000ths cu.m) section	cum.	ACTUAL VOLUME section (1000ths cu.m)	cum. (1000ths cu.m)	section vol. rec.(%)	WT OF MATERIALS (Kg)	WT(%) SANDS/GRAVELS +10 mm	-10 m +20 #	-20 #	CLAY	FIELD CONCENTRATE actual wt (g) recovd.	wt (g) per cu.m.	metre-gram	cum. metre-gram	prog. wt.(g) per cu. m.	REMARKS
0-1	1	Brown sands & silt	F			3·0	3·0		4·3										Cased only
1-2	1	Ochre-brown gravelly sands	F			4·0	7·0		7·7										Drilled then cased " " "
2-3	1	" " " "	F			14·0	21·0		25·3										" " "
3-4	1	Grey sands with quartz chips	F			5·0	26·0		10·3										" " "
4-5	1	Grey clay	S			3·0	29·0		5·7										" " "
5-6	1	" "	S			5·0	34·0		10·8										" " "
6-7	1	Weathered grey laminated shales with quartz veins & pyrite.																	Cored. Recovered 0·6m.
		EOH Silts				3·0	37·0		9·5										

Bottomed / Unbottomed at 4·0 metres on Mathinna Shale bedrock

Average field grade ____ g. per cu. m.

030746

977054

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass conc at 72% Sn (g/cu m)	gold (mg/cu m)	silver (mg/cum)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt (%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt (%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

051

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD. 977055

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

BORE NUMBER... G7..... RECORDED BY... A. JACKSON.....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
			-10mm to -20# (Kg)		
0-1	4·3		0·5		3·8
1-2	7·7		1·7		6·0
2-3	25·3		12·7		12·6
3-4	10·3		5·1		5·2
4-5	5·7		1·3		4·4
5-6	10·8		0·8		10·0
EOH SILTS	9·5		0·8		8·7

052

AUSTRALIAN ANGLO AMERICAN LIMITED

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

SHEET 1/2

Bore no.: C8 *Commenced time:* 4·15PM *Date:* 16·3·81 *Machine:* GEMCO 210B *Casing shoe diameter:* External 9·0 Internal 7·5

Off-set: — *Completed time:* 1·30PM *Date:* 17·3·81 *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.	wt (g) per cu.m.	metre-gram	cum. metre-gram	prog. wt.(g) per cu. m.	REMARKS
0-1	1	Ochre sandy gravels	F			9·0	9·0		15·9										Cased only
1-2	1	Coarse sandy gravels and chips.	F			12·0	21·0		21·7										Drilled then cased (1 colour)
2-3	1	" " " "	F			13·0	34·0		21·9										(1 colour)
3-4	1	" " " "	F			11·0	45·0		23·7										(5 colours)
4-5	1	" " " "	F			10·0	55·0		15·1										(4 colours)
5-6	1	Ochre clays	S			5·0	60·0		7·5										
6-7	1	Ochre sandy clay	M			4·0	64·0		5·8										
7-8	1	Ochre clayey sands	M			13·0	77·0		20·3										(2 colours)
8-9	1	" " "	M			12·0	89·0		17·4										
9-10	1	Grey sandy clay	M			5·0	94·0		7·3										

Bottomed / [redacted] *at* 10·0 *metres on* Mathinna Shale *bedrock.*

Average field grade ____ *g. per cu. m.*

011056

977057

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	$ per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	case conc at 72% Sn (g/cu m)	gold (mg/cum.)	silver (mg/cum.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt(%)	ASSAY RESULTS (ppm)			
		Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt.(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tourmaline	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

053

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

Bore no.: C 8 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 g	-20 g							
10-11	1	Weathered greyshale				5·0	99·0												Cored. Recovered 1·0m.
		Eqn. silts				14·0	113·0		20·7										

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

977059

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV. GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu.m.)	gold (mg/cu.m.)	silver (mg/cu.m.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
		ASSAY RESULTS (ppm)			
size (BSS #)	wt(%)	Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

054

977060

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER ... S8 ..... RECORDED BY ... A. JACKSON ....

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels	-10mm + -20# (Kg)		Clay (Kg)
0-1	15·9		8·0		7·9
1-2	21·7	(1 colour)	15·3		6·4
2-3	21·9	(1 colour)	10·0		11·9
3-4	23·7	(5 colours)	10·1		13·6
4-5	15·1	(4 colours)	8·7		6·4
5-6	7·5		0·7		6·8
6-7	5·8		0·6		5·2
7-8	20·3	(2 colours)	7·5		12·8
8-9	17·4		7·6		9·8
9-10	7·3		0·7		6·6
EOH SILTS	20·7		1·2		19·5

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E 3-A Commenced time: 4.45PM Date: 27.2.81 Machine: GEMCO 2103 Casing shoe diameter: External 9.0 cm Internal 7.5cm

Off-set: – Completed time: 4.00PM Date: 4.3.81 Foreman panner: B. JACKSON Supervisor: S. DOUGLAS SHEET 1/6

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 (1000 tns cu.m.)	ACTUAL VOLUME cum. (1000 tns 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 sand, ochre sands & gravels.	F			5.0	5.0		8.3										Cased only.
1-2	1	Coarse sands & gravels of quartz & sandstone	F			12.0	17.0		24.9										Drilled then cased.
2-3	1	" " "	F			14.0	31.0		25.0										
3-4	1	" " "	F			26.0	57.0		46.7										
4-5	1	" " "	F			15.0	72.0		24.7										
5-6	1	" " "	F			13.0	85.0		22.1										(2 colours)
6-7	1	Sands & gravels with ochre clays	F			2.0	87.0		2.0										
7-8	1	Grey clays with some coal fragments.	S			3.0	90.0		5.1										

[redacted] / Unbottomed at 42.0 metres on Conglomerate [redacted]

Average field grade _____ g. per cu. m.

977062

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass conc or 72% Sn (g/cu m.)	gold (mg/cum.)	silver (mg/cum.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt(%)	ASSAY RESULTS (ppm)		
		Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

056

PROSPECT: EL22/80 AREA: South East STATE: Tasmania

Bore no.: E3-A Commenced time: 4.45 PM Date: 27.2.81 Machine: Gemco 2108 Casing shoe diameter: External

SHEET 2/6

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			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 #							
8-9	1	Grey clays with some coal fragments	S			1.0	91.0		3.3										
9-10	1	Grey clays	S			4.0	95.0		6.0										
10-11	1	Grey sandy clay	M			18.0	113.0		12.7										
11-12	1	Grey sandy clay with some coal fragments	F			3.0	116.0		4.6										(1 colour)
12-13	1	Grey clayey sands with some coal fragments	F			10.0	126.0		17.2										
13-14	1	" " "	F			14.0	140.0		20.6										(2 colours)
14-15	1	" " "	F			8.0	148.0		13.1										
15-16	1	" " "	F			7.0	155.0		12.8										

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

9710693

977064

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass conc. at 72% Sn (g/cu m)	gold (mg/cum)	silver (mg/cum)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt (%)	ASSAY RESULTS (ppm)		
		Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt (%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

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

057

SHEET 5/6

Bore no.: E3-A 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.	metro-gram	cum. metro-gram	prog. wt.(g) per cu. m.	
										+10 mm.	-10 m +20 #	-20 #							
16-17	1	Grey-brown clayey sands with small coal fragments	F			15·0	170·		25·7										(3 colours)
17-18	1	" " " "	F			9·0	179·0		17·7										
18-19	1	Grey-brown sandy clay	F			8·0	187·0		17·3										(1 colour)
19-20	1	" " "	F			4·0	191·0		6·2										(1 colour)
20-21	1	" " "	F			9·0	200·0		16·1										(1 colour)
21-22	1	" " "	F			8·0	208·0		14·9										(1 colour)
22-23	1	" " "	F			7·0	215·0		14·2										
23-24	1	" " "	F			9·0	224·0		18·4										(1 colour)
24-25	1	" " "	F			4·0	228·0		12·5										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

9770693

977066

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu m.)	gold (mg/cum.)	silver (mg/cum.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt(%)	ASSAY RESULTS (ppm)			
		Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

058

AUSTRALIAN ANGLO AMERICAN LIMITED

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

SHEET 4/6

Bore no.: E3-A   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 lts. cu.m.) section	cum.	ACTUAL VOLUME section (1000 lts. cu.m.)	cum. (1000 lts. cu.m.)	section vol. rec. (%)	WT OF MATERIALS (Kg.)	WT (%) SANDS/GRAVELS +10 mm.	−10 m +20 #	−20 #	CLAY	FIELD CONCENTRATE actual wt. (g) record	wt (g) per cu.m.	metre-gram	cum. metre-gram	prop. wt. (g) per cu. m.	REMARKS
25-26	1	Grey-brown sandy clay with some coal fragments	F			5.0	233.0		9.3										(1 colour)
26-27	1	" " " "	F			3.0	236.0		5.7										
27-28	1	Grey sandy clay	F			9.0	245.0		16.3										
28-29	1	Grey sandy clay with small coal fragments	F			4.0	249.0		6.2										
29-30	1	" " "	F			8.0	257.0		11.9										
30-31	1	" " "	F			7.0	264.0		11.9										
31-32	1	" " "	F			7.0	271.0		13.1										
32-33	1	Grey sandy clay with some quartz & sandstone gravels.	F			9.0	280.0		10.1										

977067

Bottomed / Unbottomed at ______ metres on ______ bedrock

Average field grade ______ g. per cu. m.

977068

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu m.)	gold (mg/cu m.)	silver (mg/cum.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt (%)	ASSAY RESULTS (ppm)		
		Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE		
MINERAL	wt (%)	
Cassiterite		
Ilmenite		
Zircon		
Monazite		
Pyrite		
Gold		
Tantalite		
Others		
TOTAL		

Remarks:

059

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E3-A 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) record	wt (g) per cu.m.	metre-gram	cum. metre-gram	prog. wt (g) per cu. m.	
33-34	1	Grey clayey sand with quartz gravels	F			23.0	303.0		39.7										
34-35	1	" " "	F			45.0	348.0		60.1										(3 colours)
35-36	1	Grey sandy clay with some coal fragments.	F			23.0	371.0		36.9										Not cased - Dolled dry
36-37	1	" " " "	F			8.0	379.0		10.3										
37-38	1	" " " "	F			6.0	385.0		5.2										
38-39	1	Grey sandy clay with gravels	F			15.0	400.0		19.0										
39-40	1	" " " "				11.0	411.0		14.0										
40-41	1	" " " "				9.0	420.0		13.0										

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

9270669

977070

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV. GRADE TO BEDROCK	cass. conc at 72% Sn (g/cu.m.)	gold (mg/cu.m.)	silver (mg/cu.m.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt(%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E3-9 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 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.	
41-42	1	Coarse conglomerate of pebbles, cobbles & boulders of quartz sandstone & chlorite in matrix of gravel & silica.				6.0	426.0		5.9										COSED
		EOH SILTS				5.0	431.0		7.7										

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

9770174

977072

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	$ per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			

AV GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu m.)	gold (mg/cu.m.)	silver (mg/cu.m.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt(%)	ASSAY RESULTS (ppm)		
		Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
− 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

977073

061

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

PROJECT NUMBER. E.L. 22/80. AREA South Esk.. STATE. Tasmania..

BORE NUMBER.. E3A..... RECORDED BY. A. Jackson..... SHEET 1/2

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg)	-10mm +20# (Kg)	-20# (Kg)	
0-1	8·3		5·8		2·5
1-2	24·9		21·7		3·2
2-3	25·0		21·7		3·3
3-4	46·7		38·9		8·8
4-5	24·7		21·3		3·4
5-6	22·1	2 colours	18·3		3·8
6-7	2·0		1·4		0·6
7-8	5·1		0·4		4·7
8-9	3·3		0·1		3·2
9-10	6·0		1·5		4·5
10-11	12·7		2·7		10·0
11-12	4·6	1 colour	1·9		2·7
12-13	17·2		1·8		15·4
13-14	20·6	2 colours	3·5		17·1
14-15	13·1		2·4		10·7
15-16	12·8		1·9		109
16-17	25·7	3 colours	12·0		13·7
17-18	17·7		3·9		13·8
18-19	17·3	1 colour	2·6		14·7
19-20	6·2	1 colour	0·9		5·3
20-21	16·1	1 colour	2·9		13·2
21-22	14·9	1 colour	1·9		13·0
22-23	14·2		3·0		11·2
23-24	18·4	1 colour	2·3		16·1
24-25	12·5		1·1		11·4
25-26	9·3	1 colour	0·9		8·4
26-27	5·7		1·5		4·2

977074

062

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER.. ESA.... RECORDED BY..... SHEET 2/2

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
		+10mm (Kg)	-10mm +20# (Kg)	-20# (Kg)	
27-28	16·3		1·3		15·0
28-29	6·2		0·5		5·7
29-30	11·9		1·2		10·7
30-31	11·9		3·1		8·8
31-32	13·1		3·1		10·0
32-33	10·1		5·1		5·0
33-34	39·7		29·8		9·9
34-35	60·1	3 cobbles	13·9		46·2
35-36	36·9		5·1		31·8
36-37	10·3		1·3		9·0
37-38	5·2		1·0		4·2
38-39	19·0		6·3		12·7
39-40	14·0		7·3		6·7
40-41	13·0		5·2		7·8
41-42	5·9		0·3		5·6
EOH SILTS	7·7		0·5		7·2

AUSTRALIAN ANGLO AMERICAN LIMITED

063

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

Bore no.: E4 Commenced time: 8:00 AM Date: 20·2·81 Machine: GEMCO 2108 Casing shoe diameter: External 9·0cm Internal 7·5cm SHEET 1/7

Off-set: — Completed time: 4·00 PM Date: 27·2·81 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) record	wt (g) per cu.m	metre-gram	cum. metre-gram	prog wt.(g) per cu.m	REMARKS
0-1	1	Brown sands & silt; ochre clays.	F			10·0	10·0		13·4										Cased only.
1-2	1	Ochre-khaki clays	S			9·0	19·0		14·3										Drilled then cased.
2-3	1	Ochre clays with gravels	F			11·0	30·0		21·3										
3-4	1	Sandy gravels of quartz, sandstone dolerite & shale	F			18·0	48·0		32·9										1 colour
4-5	1	" " "	F			16·0	64·0		31·9										8 colours
5-6	1	" " "	F			9·0	73·0		14·3										1 colour
6-7	1	Grey sandy clay with ?coal & wood fragments	M			2·0	75·0		2·5										
7-8	1	Grey clay	S			2·5	77·5		3·0										

510116

Bottomed / Unbottomed at 42 metres on Conglomerate ~~bedrock~~

Average field grade ______ g per cu. m.

977076

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-grom	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			

AV GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu m.)	gold (mg/cu m.)	silver (mg/cu m.)
Grade calculated from assay results			
[1] Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt(%)	ASSAY RESULTS (ppm)			
		Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

064

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

Bore no.: E4 Commenced time: ______ Date: ______ Machine: ______ Casing shoe diameter: ______ SHEET 2/7

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

Collar level: ______

DEPTH (m)	THICKNESS (m)	DESCRIPTION OF GROUND	TENACITY	THEORETICAL VOL. (1000 lts. cu.m.)		ACTUAL VOLUME			WT OF MATERIALS (kg)	WT (%)				FIELD CONCENTRATE					REMARKS
				section	cum	section (1000 lts. cu.m.)	cum (1000 lts. 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.	milligram	cum. milligram	prosp. wt. (g) per cu. m.	
8-9	1	Grey clay	S			2·0	79·5		3·1										
9-10	1	" "	S			60·0	139·5		74·9										Casing pulled. Trecored with large bit. Recased with new casing shoe. Sample taken after casing 2 colours.
10-11	1	Grey-black sandy clay with coal particles	M			5·0	144·5		9·1										
11-12	1	" " "	M			10·0	154·5		16·1										
12-13	1	Grey-black sandy clay, light grey clay with some rock chips.	M			13·0	167·5		22·8										
13-14	1	Grey-black sandy clays	M			6·0	173·5		10·5										
14-15	1	" " "	M			9·0	182·5		14·2										

Bottomed / Unbottomed at ______ metres on ______ bedrock. Average field grade ______ g. per cu. m.

977078

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc at 72% Sn (g/cu m)	gold (mg/cum)	silver (mg/cum)
Grade calculated from assay results			
Grade calcuated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt(%)	ASSAY RESULTS (ppm)			
		Sn	Au	Ag	
+ 20					
+ 32					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E4 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ SHEET 3/7

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 #							
15-16	1	Grey-black sandy clay	M			9.0	191.5		15.7										
16-17	1	" " "	M			12.0	203.5		19.5										3 colours
17-18	1	Grey sandy clay with coal fragments	M			6.0	209.5		7.3										
18-19	1	" " "	M			4.0	213.5		6.1										
19-20	1	" " "	M			7.0	220.5		5.6										
20-21	1	" " "	M			6.0	226.5		7.2										
21-22	1	" " "	M			11.0	237.5		16.6										
22-23	1	" " "	M			4.0	241.5		5.8										No casing. Drilled only
23-24	1	" " "	M			4.0	245.5		6.4										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

977080

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	$ per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu m)	gold (mg/cu m)	silver (mg/cu m)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt (%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt (%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

066

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

Bore no.: E4 Commenced time: Date: Machine: Casing shoe diameter: SHEET 4/7

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 #							
24-25	1	Grey-black clayey sands with coal fragments	M			4·0	249·5		5·4										
25-26	1	" " "	M			6·0	255·5		9·1										
26-27	1	" " "	M			5·0	260·5		7·3										
27-28	1	" " "	M			4·0	264·5		5·0										
28-29	1	Grey-black sands with quartz chips & gravels Some coal fragments	M			5·0	269·5		8·3										
29-30	1	Pyritic grey-black sands & gravels with coal fragments.	M			11·0	280·5		16·2										2 colours
30-31	1	" " "	M			8·0	288·5		10·0										

Bottomed / Unbottomed at metres on bedrock

Average field grade g. per cu. m.

977082

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			

AV GRADE TO BEDROCK	cass. conc. or 72% Sn (g/cu m.)	gold (mg/cum.)	silver (mg/cum.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt (%)	ASSAY RESULTS (ppm) Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE		
MINERAL	wt (%)	
Cassiterite		
Ilmenite		
Zircon		
Monazite		
Pyrite		
Gold		
Tantalite		
Others		
TOTAL		

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

PROSPECT: EL22/80 AREA: SOUTH ESK STATE: TASMANIA

Bore no.: E4 Commenced time: Date: Machine: Casing shoe diameter: SHEET 5/7

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.	
31-32	1	Coarse sands & gravels with pyrite.	M			8.0	296.5		11.1										
32-33	1	" " "	M			11.0	307.5		16.4										
33-34	1	Coarse sands & gravels with pyrite & coal fragments	M			9.0	316.5		12.2										
34.0 - 34.5	0.5	Gravelly sands with some chips; pyrite	M																Sample taken after reaming and coring.
34.5 - 35.5	1	15 cm of conglomerate of dolerite quartz and sandstone pebbles in quartz & pyrite matrix; 85 cm of peat layers with sand				31.0	347.5		45.9										Cored.

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

9710803

977084

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc at 72% Sn (g/cu m)	gold (mg/cu m)	silver (mg/cu m)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
		ASSAY RESULTS (ppm)			
size (BSS #)	wt(%)	Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE		
	MINERAL	wt (%)
	Cassiterite	
	Ilmenite	
	Zircon	
	Monazite	
	Pyrite	
	Gold	
	Tantalite	
	Others	
	TOTAL	

Remarks:

068

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E4 Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ SHEET 6/7

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 +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.	
35·5-36·0	0·5	Grey-black sands with peat fragments	F			15·0	362·5		24·2										
36-37	1	Grey-black clayey sands	F			5·0	367·5		5·6										
37-38	1	" " " "	F			8·0	375·5		9·4										
38-39	1	" " " "	F			6·0	381·5		7·1										
39-40	1	" " " " with gravels.	F			11·0	392·5		13·3										
40-41	1	Grey-black sand & rock chips.	F			15·0	407·5		20·0										
41-42	1	Quartz & sandstone pebbles; gravel and pebble conglomerate in muddy matrix; sandstone & quartz																	CORED

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

C80226

977086

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu m.)	gold (mg/cum.)	silver (mg/cum.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt(%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

069

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

SHEET 7/7

Bore no.: E4 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 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) record	wt. (g) per cu.m.	metre-gram	cum. metre-gram	prog. wt. (g) per cu. m.	
										+ 10 mm	-10 m + 20 #	-20 #							
41-42 (cont.)		pebbles & cobbles in green siliceous matrix with some pyrite.																	
		EOH sills.							111·6										

Bottomed / Unbottomed at 42 metres on Conglomerate bedrock

Average field grade _____ g. per cu. m.

9/7/80

977088

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu m)	gold (mg/cum)	silver (mg/cum)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt(%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

070

977089

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER... E.4..... RECORDED BY.. A. JACKSON..... 1/2

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels	-10mm 20# (Kg)		Clay (Kg)
0-1	13·4		1·3		12·1
1-2	14·3		2·5		11·8
2-3	21·3		11·6		9·7
3-4	32·9	COLOUR	26·6		6·3
4-5	31·9	8 COLOURS	16·0		15·9
5·6	14·3	COLOUR	5·5		8·8
6-7	2·5		0·1		2·4
7-8	3·0		0·2		2·8
8-9	3·1		0·4		2·7
9-10	74·9	2 COLOURS	8·9		66·0
10-11	9·1		0·2		8·9
11-12	16·1		0·3		15·8
12-13	22·8		3·8		19·0
13-14	10·5		0·8		9·7
14-15	14·2		3·9		10·3
15-16	15·7		2·2		13·5
16-17	19·5	3 COLOURS	2·7		16·8
17-18	7·3		2·3		5·0
18-19	6·1		1·9		4·2
19-20	5·6		1·7		3·9
20-21	7·2		1·8		5·4
21-22	16·6		5·7		10·9
22-23	5·8		1·2		4·6
23-24	6·4		3·3		3·1
24-25	5·4		3·5		1·9
25-26	9·1		4·5		4·6
26-27	7·3		4·9		2·4

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER.. E4 RECORDED BY... A. JACKSON

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels			Clay (Kg)
			-10mm to -20# (Kg)		
27-28	5·0		3·7		1·3
28-29	8·3		4·8		3·5
29-30	16·2	2 COLOURS	12·0		4·2
30-31	10·0		7·0		3·0
31-32	11·1		8·4		2·7
32·33	16·4		9·0		7·4
33·34	12·2		7·5		4·7
34-35·5	45·9		25·5		20·7
35·5-36·0	24·2		16·9		7·3
36-37	5·6		1·7		3·9
37-38	9·4		3·2		6·2
38·39	7·1		2·4		4·7
39-40	13·3		6·3		7·0
40-41	20·0		5·9		14·1
EOH SILTS	111·6		67·0		44·6

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E5 Commenced time: 10.00 AM Date: 5.3.81 Machine: GEMCO 210B Casing shoe diameter: External 9.0 cm, Internal 7.5 cm. SHEET 1/5

Off-set: 55.8m → 232° Completed time: 5.45 PM Date: 11.3.81 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 & silt; ochre clays & gravels	F			5.0	5.0		9.5										Cased only
1-2	1	Ochre clayey sands	F			9.0	14.0		13.9										Drilled then cased
2-3	1	Coarse sands & gravels	F			12.0	26.0		22.5										
3-4	1	" " "	F			15.0	41.0		27.9										
4-5	1	Ochre clayey sand	F			6.0	47.0		10.4										
5-6	1	Grey clay; gravels & sands	M			5.0	52.0		6.7										
6-7	1	Grey sandy clay with coal fragments	M			3.0	55.0		4.2										
7-8	1	" " " "	M			2.0	57.0		2.8										
8-9	1	Stiff grey clay with coal fragments	S			2.0	59.0		4.9										

Bottomed / [redacted] at 35.0 metres on CONGLOMERATE bedrock

Average field grade ______ g. per cu. m.

60760

977092

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc at 72% Sn (g/cu m)	gold (mg/cum)	silver (mg/cum)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt (%)	ASSAY RESULTS (p.p.m)			
		Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt (%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

AUSTRALIAN ANGLO AMERICAN LIMITED

073

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

Bore no.: E5 Commenced time: Date: Machine: Casing shoe diameter: SHEET 2/6

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			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 g	-20 g							
9-10	1	Stiff grey clay with coal fragments	S			2·0	61·0		5·7										
10-11	1	Grey Sandy clay with coal fragments	M			5·0	66·0		7·2										
11-12	1	" " " " "	M			3·0	69·0		7·6										
12-13	1	" " " " "	M			9·0	78·0		15·0										
13-14	1	" " " " "	M			5·0	83·0		7·3										
14-15	1	" " " " "	M			5·0	88·0		8·7										
15-17	2	Grey-black clayey sand with coal fragments	M			16·0	104·0		25·9										
17-18	1	" " " "	M			6·0	110·0		9·2										

Bottomed / Unbottomed at _____ metres on _____ bedrock

Average field grade _____ g. per cu. m.

977094

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN

TYPE OF SEDIMENT	metres	metre-gram	g per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc at 72% Sn (g/cu m)	gold (mg/cum)	silver (mg/cum)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE					
size (BSS #)	wt (%)	ASSAY RESULTS (ppm)			
		Sn	Au	Ag	
+ 20					
+ 52					
+ 72					
+ 100					
+ 120					
+ 150					
+ 200					
- 200					
TOTAL					

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt (%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

074

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E5 *Commenced time:* ____ *Date:* ____ *Machine:* ____ *Casing shoe diameter:* ____ SHEET 3/5

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

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
18-19	1	Grey-black sand with coal fragments; quartz gravel	F			7.0	117.0		9.9										
19-20	1	Coarse sands and quartz gravels	F			9.0	126.0		14.2										
20-21	1	Coarse sands and quartz gravels with coal fragments.	F			11.0	137.0		19.3										
21-22	1	" " " "	F			11.0	148.0		15.9										
22-23	1	" " " "	F			12.0	160.0		19.1										
23-24	1	" " " "	F			9.0	169.0		17.3										
24-25	1	" " " "	F			13.0	182.0		17.2										(1 colour)
25-26	1	" " " "	F			15.0	197.0		21.1										

677095

Bottomed / Unbottomed at ____ *metres on* ____ *bedrock*

Average field grade ____ *g. per cu. m.*

977096

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV. GRADE TO BEDROCK	cass. conc. at 72% Sn (g/cu.m.)	gold (mg/cum.)	silver (mg/cum.)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt(%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
− 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

075

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: ES Commenced time: _____ Date: _____ Machine: _____ Casing shoe diameter: _____ SHEET 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.)		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) recond.	wt. (g) per cu. m.	metre-gram	cum. metre-gram	prog. wt. (g) per cu. m.	
26-27	1	Grey sandy clay with coal fragments & pyrite	F			5·0	202·0		6·3										
27-28	1	Grey sandy gravels with coal fragments & pyrite.	F			3·0	205·0		5·4										
28-29	1	" " " "	F			15·0	220·0		21·6										
29-30	1	" " " "	F			13·0	233·0		13·9										
30-31	1	" " " "	F			30·0	263·0		44·7										
31-32	1	" " " "	F			21·0	284·0		30·7										
32-33	1	" " " "	F			16·0	300·0		19·4										
33-34	1	" " " "	F			25·0	325·0		35·6										

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

9770971

977098

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass. conc at 72% Sn (g/cu m)	gold (mg/cum.)	silver (mg/cum)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt(%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

076

AUSTRALIAN ANGLO AMERICAN LIMITED

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

Bore no.: E5 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			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 #							
34-35	1	Grey sandy quartz gravels with coal fragments & pyrite	F			36·0	361·0		61·6										
35-36	1	Conglomerate of large quartz and sandstone pebbles in quartz gravel matrix.				13·0	374·0		12·6										CORED Recovered 1·0 m.
		EOH BILTS				7·0	381·0		14·3										

Bottomed / Unbottomed at _____ metres on _____ bedrock.

Average field grade _____ g. per cu. m.

977099

977100

DELAYS

DATE	CAUSE OF DELAYS	HOURS	MIN.

TYPE OF SEDIMENT	metres	metre-gram	g.per cu m.
Tailings — free, sandy/clayey			
Tailings — stiff clay			
Virgin alluvium — free, sandy/clayey			
Virgin alluvium — stiff clay			
AV GRADE TO BEDROCK	cass conc. at 72% Sn (g/cu m)	gold (mg/cu m.)	silver (mg/cum)
Grade calculated from assay results			
Grade calculated from physically free minerals			

FIELD CONCENTRATE				
size (BSS #)	wt(%)	ASSAY RESULTS (ppm) Sn	Au	Ag
+ 20				
+ 52				
+ 72				
+ 100				
+ 120				
+ 150				
+ 200				
- 200				
TOTAL				

MINERALOGICAL ANALYSIS OF FIELD CONCENTRATE	
MINERAL	wt(%)
Cassiterite	
Ilmenite	
Zircon	
Monazite	
Pyrite	
Gold	
Tantalite	
Others	
TOTAL	

Remarks:

977101

077

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

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

BORE NUMBER.. ES..... RECORDED BY A... JACKSON...

SHEET 1/2

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels - 10mm (Kg) to -20#			Clay (Kg)
0-1	9.5	3.9			5.6
1-2	13.9	5.2			8.7
2-3	22.5	16.4			6.1
3-4	27.9	14.7			13.2
4-5	10.4	0.9			9.5
5-6	6.7	3.3			3.4
6-7	4.2	0.5			3.7
7-8	2.8	0.2			2.6
8-9	4.9	0.05			4.85
9-10	5.7	0.7			5.0
10-11	7.2	1.7			5.5
11-12	7.6	1.9			5.7
12-13	15.0	1.6			13.4
13-14	7.3	1.1			6.2
14-15	8.7	3.0			5.7
15-17	25.9	3.2			22.7
17-18	9.2	6.0			3.2
18-19	9.9	5.5			4.4
19-20	14.2	8.7			5.5
20-21	19.3	10.7			8.6
21-22	15.9	10.1			5.8
22-23	19.1	13.9			5.2
23-24	17.3	15.7			1.6
24-25	17.2 (1 COLOUR)	10.9			6.3
25-26	21.1	16.3			4.8
26-27	6.3	3.6			2.7
27-28	5.4	3.8			1.6

977102

AUSTRALIAN ANGLO AMERICAN SERVICES PTY. LTD.

078

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

BORE NUMBER. ES. RECORDED BY. A. JACKSON.

SHEET 2/2

Depth (m)	Wt. of Materials (Kg)	Sands/Gravels - 10mm (Kg) to -20#			Clay (Kg)
28 - 29	21.6	17.5			4.1
29 - 30	13.9	9.3			4.6
30 - 31	44.7	21.9			22.8
31 - 32	30.7	19.7			11.0
32 - 33	19.4	13.4			6.0
33 - 34	35.6	12.7			22.9
34 - 35	61.6	15.0			46.6
35 - 36	12.6	0.7			11.9
EOH SILTS	14.3	1.0			13.3