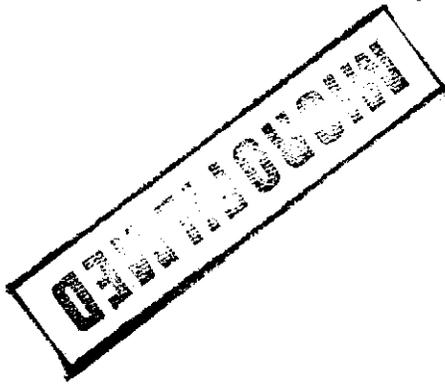


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D. DIR.				Regis. No.
MARCH 1985				E & IL
DEPT. OF MINES				
REF. No. 3336/85				

PROJECT NAME: AUSTRALIAN ANGLO AMERICAN PROSPECTING PTY. LTD.

TITLE: RINGAROOMA JOINT VENTURE
ANNUAL REPORT TO
THE DEPARTMENT OF MINES, TASMANIA
FOR THE PERIOD ENDING 7 MARCH 1985

EXPLORATION LICENCE 2/77

AREA NAME/S, STATE 1: 250,000 SHEET NO/S & COORDINATES:

COMMODITY/IES:

TEXT PAGES NO: 1

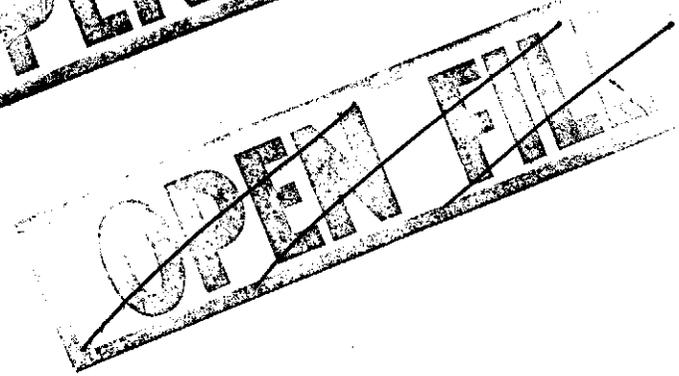
PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: R W L SHAW

DATE: MARCH 1985



AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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AUSTRALIAN ANGLO AMERICAN PROSPECTING PTY. LTD.

RINGAROOMA JOINT VENTURE

ANNUAL REPORT TO THE DEPARTMENT OF MINES, TASMANIA
FOR THE PERIOD ENDING 7 MARCH 1985

EXPLORATION LICENCE 2/77

The principal activity for the period has been compilation of the attached Pre-feasibility Study, which constitutes the bulk of the documentation submitted as our Annual Report. TCA 85-2358.

Field work during the year consisted of the completion of 10 drill holes for which the logs and results are attached. These record the results of the final phase of data gathering which preceded the desk studies through the remainder of the year. All holes are located near the Pioneer Mine and were drilled with the objective of testing the Poverty Point Lead (K252-259) and the north flank of the Pioneer Lead (K260 and 261). The results are incorporated into the Pre-feasibility Study and their location is shown on the accompanying plans.

During the period the licence area was reduced to approximately 125 km². An appropriate Final Report has been submitted for the areas shed.



for: R.W.L. SHAW
MARCH 1985

002

I, OSVALDO TIBURCIO FILOMENO FONSECA of 56 PARTRIDGE CRESCENT FRANKSTON in the State of Victoria, Chief Accountant, DO SOLEMNLY AND SINCERELY DECLARE as follows:

That in the twelve months ended 31 January 1985 we have expended \$99 331 on Exploration Licence 2/77, analysed as follows -

	\$
(a) Operational staff costs	26 194
(b) General operational expenses	3 170
(c) Transport and travel	3 280
(d) Tenement costs	31 436
(e) Contractors	-
(f) Specialist services	450
(g) Drilling and treatment	30 132
(h) Capital expenditure	-
(i) Administration costs	4 669
	99 331

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 Twelfth day of)
March 1985)

O. Fonseca

Before me:

B. N. Leckie

B N. LECKIE
COMMISSIONER FOR TAKING AFFIDAVITS

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA PIONEER COLLAR CO-ORDINATES 577000 mE 5451400 mN DRILLING METHOD Percussion HOLE No. K252
 SURFACE R.L. 101.0 m BASEMENT R.L. 58.7 m CUTTING SHOE/
 BIT DIAMETER 16.03 cm THEORETICAL VOLUME 40.7 litres PAGE 1 of 2
 DRILLER A. Groves SAMPLE WASHER S. Moore ASSAY METHOD XRF GEOLOGIST R. Munro DATE 31/1 to 13/2/85

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
0	2	31	105.8	0.08	0.12	3.9	3.7	0-2 Coarse and fine sand.
2	4	18	92.8	0.06	0.08	4.4	2.4	2-4 Coarse and fine sand, yellow and white clay.
4	6	23	101.3	0.22	0.32	13.8	9.8	4-6 Coarse and fine sand, white clay.
6	8	28	108.1	0.16	0.25	8.8	7.6	6-7 Coarse and fine sand, white silty clay.
8	10	23	98.0	0.07	0.10	4.3	3.0	7-10 Coarse and fine sand.
10	12	21	98.8	0.07	0.10	4.7	3.0	10-12 Coarse and fine sand, white silty clay.
12	14	18	90.9	0.05	0.06	3.6	2.0	12-14 Coarse and fine sand, brown silty clay.
14	16	27	153.4	0.04	-	B.L.D.	B.L.D.	14-20 Coarse and fine sand, brown silty clay, wood.
16	18	23	94.9	0.13	0.18	7.7	5.4	20-21 Coarse and fine sand.
18	20	30	89.5	0.19	0.24	8.1	7.4	21-22 Coarse and fine sand, white and brown silty clay.
20	22	24.5	107.0	0.09	0.14	5.6	4.2	22-23 Coarse and fine sand, white sandy clay.
22	24	23	108.0	0.13	0.20	8.7	6.2	23-24 Coarse and fine sand, white clay.
24	26	22.5	104.5	0.20	0.30	13.3	9.2	24-28 Coarse and fine sand, white clay.
26	28	31	124.9	0.14	0.25	8.1	7.7	28-29 Coarse and fine sand, heavy drift, white clay.
28	30	37	111.3	0.07	0.11	3.0	3.0	29-32 Coarse and fine sand, heavy drift.
30	32	21	109.2	0.14	0.22	10.4	6.7	32-34 Coarse and fine sand, heavy drift, white sandy clay.
32	34	32.5	107.4	0.27	0.41	12.7	12.7	34-36 Coarse and fine sand, yellow and white clay.
34	36	24	97.2	0.18	0.25	10.4	7.7	36-39 Coarse and fine sand, yellow and sandy clay, brown cement.
36	38	35	108.2	0.81	1.25	35.8	35.8	39-41 Coarse and fine sand, yellow silty clay.
38	40	39	114.7	2.38	3.90	100.0	100.0	41-42 Coarse and fine sand, small wash, yellow and white silty clay.
40	42	34	128.8	8.41	15.47	455.1	455.1	
42	44	30	102.6	8.31	12.18	406.0	373.9	
44	45	12	103.3	0.83	1.22	102.0	74.8	
45	46	9	97.7	0.29	0.40	44.9	24.8	

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at 42.3 m

Grade from surface to inferred basement

Total recovered volume, surface to basement 371.37 litresGrade 1 at 42.3 m 53 g SnO2/m³Total recovered tin 371.37 g SnO2Grade 2 at 42.3 m 53 g SnO2/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA.....PIONEER..... COLLAR CO-ORDINATES...577100.....mE...5451500.....mN DRILLING METHOD...CABLE TOOL..... HOLE No...K254
 SURFACE R.L. 98.4.....m BASEMENT R.L. 59.5.....m CUTTING SHOE/ BIT DIAMETER...16.03 cm..... THEORETICAL VOLUME...40.7.....litres PAGE...1.....of...2.....
 DRILLER...A GROVES..... SAMPLE WASHER...S MOORE..... ASSAY METHOD...XRF..... GEOLOGIST...R MUNRO..... DATE...13 to 29 FEB 84.....

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
0	2	36	101.3	0.15	0.22	6.0	6.0	0-1 Black top soil, coarse & fine sand, heavy drift 1-2 Coarse & fine sand, heavy drift, ilmenite, monazite
2	4	39½	91.5	0.08	0.10	2.6	2.6	2-3 Coarse & fine sand, heavy drift 3-4 Coarse and fine sand, ilmenite, monazite
4	6	29½	94.0	0.11	0.15	5.0	4.5	4-5 Coarse & fine sand, brown sandy clay, white silty clay 5-6 Coarse & fine sand, white silty clay, ilmenite, monazite
6	8	23½	66.7	0.93	0.89	37.7	27.2	6-7 Coarse & fine sand, white & brown silty clay 7-8 Coarse & fine sand, white & brown silty clay Tr tin, ilmenite, monazite
8	10	13	114.6	0.11	0.18	13.8	5.5	8-9 Coarse & fine sand, white silty clay, ilmenite, 9-10 Coarse & fine sand, white silty clay, monazite
10	12	22	87.6	0.28	0.35	15.9	10.8	10-11 Coarse & fine sand, white silty clay 11-12 Coarse & fine sand, white silty clay, ilmenite, monazite
12	14	31	100.0	1.55	2.21	71.4	68.0	12-13 Coarse & fine sand, heavy drift, small wash 13-14 Coarse & fine sand, heavy drift, small wash Tr tin, ilmenite, monazite
14	16	29	90.6	1.12	1.45	50.0	44.5	14-15 Coarse & fine sand, heavy drift 15-16 Coarse & fine sand, heavy drift, Tr tin, ilmenite, monazite
16	18	19	102.2	0.27	0.39	20.7	12.1	16-17 Coarse & fine sand, brown and white silty clay 17-18 Coarse & fine sand, brown silty clay, ilmenite, pyrite
18	20	18	91.6	0.19	0.25	13.8	7.6	18-19 White silty clay, ilmenite, monazite 19-20 Coarse & fine sand, heavy drift, white silty clay
20	22	36	100.0	1.63	2.33	64.7	64.7	20-21 Coarse & fine sand, heavy drift, white silty clay 21-22 Coarse & fine sand, heavy drift, white silty clay Tr tin, ilmenite, monazite

Grade 1 calculated by relating recovered volume to recovered tin. Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%
 Drillers reported basement at.....38.9.....m Grade from surface to inferred basement
 Total recovered volume, surface to basement.....litres Grade 1 atm g SnO2/m³
 Total recovered tin.....39.74.....g SnO2 Grade 2 at38.9.....m56.6.....g SnO2/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA..... PIONEER..... COLLAR CO-ORDINATES..... 577100..... mE..... 5451500..... mN DRILLING METHOD..... CABLE TOOL..... HOLE No... K254.....
 SURFACE R.L..... 98.4..... m BASEMENT R.L..... 59.5..... m CUTTING SHOE/ THEORETICAL BIT DIAMETER..... 16.03 cm..... VOLUME..... 40.7..... litres PAGE... 2..... of... 3.....
 DRILLER..... A GROVES..... SAMPLE WASHER..... S. MOORE..... ASSAY METHOD..... XRF..... GEOLOGIST..... R. MUNRO..... DATE 13. to 29. FEB. 84

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
22	24	23½	68.4	0.81	0.79	33.7	24.3	22-23 Coarse & fine sand, heavy drift, white silty clay 23-24 Coarse & fine sand, heavy drift, Fine Tr tin, ilmenite, monazite
24	26	36½	109.3	0.67	1.05	28.7	28.7	24-25 Coarse & fine sand, heavy drift 25-26 Coarse & fine sand, heavy drift, ilmenite, monazite
26	28	31	95.5	0.33	0.45	14.5	13.8	26-27 Coarse & fine sand, heavy drift 27-28 Coarse & fine sand, heavy drift, ilmenite, monazite
28	30	33	83.4	0.97	1.16	35.0	35.0	28-29 Coarse & fine sand, heavy drift, white clay 29-30 Coarse & fine sand, heavy drift, white clay Tr tin, ilmenite, monazite
30	32	28	186.7	0.75	2.00	71.4	61.4	30-31 Coarse & fine sand, heavy drift, white clay 31-32 Coarse & fine sand, heavy drift, small wash ilmenite, monazite
32	34	31	104.2	1.24	1.84	59.5	56.7	32-33 Coarse & fine sand, white clay, Tr tin, ilmenite, 33-34 Coarse & fine sand, white clay, monazite
34	36	21	92.2	1.49	1.96	93.4	60.2	34-35 Coarse & fine sand, white clay, Tr tin, ilmenite, 34-36 Coarse & fine sand, white clay, monazite
36	38	32	130.0	5.09	9.45	295.4	290.2	36-37 Coarse & fine sand, white clay 37-38 Coarse & fine sand, heavy drift, birds eye wash
38	39	19	132.5	4.81	9.10	479.2	479.2	38-39 Coarse & fine sand, heavy drift, birds eye wash, decomposed granite, Small amount tin, ilmenite, monazite
39	40	9	96.0	1.63	2.23	248.4	138.3	39-40 Decomposed granite, Tr. tin, ilmenite, monazite

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at..... 38.9..... m

Grade from surface to inferred basement

Total recovered volume, surface to basement..... litres

Grade 1 at m g SnO2/m³

Total recovered tin..... 39.74..... g SnO2

Grade 2 at 38.9..... m 56.6..... g SnO2/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA PIONEER COLLAR CO-ORDINATES 577200 mE 5451200 mN DRILLING METHOD CABLE TOOL HOLE No. K255
 SURFACE R.L. 104.9 m BASEMENT R.L. 77.7 m CUTTING SHOE/
 BIT DIAMETER 16.03 cm THEORETICAL VOLUME 40.7 litres PAGE 1 of 2
 DRILLER G SELBY SAMPLE WASHER S. MOORE ASSAY METHOD XRF GEOLOGIST R. MINRO DATE 14 to 24 Feb. 84

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
0	2	21½	98.0	0.06	0.08	3.9	2.6	0-1 Coarse & fine sand, heavy drift 1-2 Coarse & fine sand, heavy drift, ilmenite, monazite
2	4	26	109.6	0.07	0.11	4.2	3.4	2-3 Coarse & fine sand, white clay 3-4 Coarse & fine sand, white clay, ilmenite, monazite
4	6	20	86.8	0.05	0.06	3.1	1.9	4-5 Coarse & fine sand, white clay 5-6 Coarse & fine sand, white clay, ilmenite, monazite
6	8	25	114.7	0.10	0.16	6.6	5.0	6-7 Coarse & fine sand, white silty clay, ilmenite, 7-8 Coarse & fine sand, white silty clay, monazite
8	10	22	87.8	0.11	0.14	6.3	4.2	8-9 Coarse & fine sand, white silty clay, ilmenite, 9-10 Coarse & fine sand, white silty clay, monazite
10	12	36	113.0	0.12	0.19	5.4	5.4	10-11 Coarse & fine sand, white silty clay 11-12 Coarse & fine sand, heavy drift, white silty clay ilmenite, monazite
12	14	36	109.5	0.18	0.28	7.8	7.8	12-13 Coarse & fine sand, heavy drift, white silty clay 13-14 Coarse & fine sand, heavy drift, white silty clay, ilmenite, monazite
14	16	24½	101.6	0.27	0.39	16.0	12.0	14-15 Coarse & fine sand, heavy drift, white silty clay 15-16 Coarse & fine sand, heavy drift, white silty clay ilmenite, monazite
16	18	26½	103.3	0.84	1.24	46.8	38.0	16-17 Coarse & fine sand, heavy drift, white silty clay 17-18 Coarse & fine sand, heavy drift, white silty clay Tr tin, ilmenite, monazite
18	20	19	77.0	0.32	0.35	18.5	10.8	18-19 Coarse & fine sand, heavy drift, white silty clay 19-20 Coarse & fine sand, heavy drift, white silty clay Tr tin, ilmenite, monazite

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at 27.2 m

Grade from surface to inferred basement

Total recovered volume, surface to basement litres

Grade 1 at m g SnO2/m³

Total recovered tin 9.62 g SnO2

Grade 2 at 27.2 m 18.4 g SnO2/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA PIONEER COLLAR CO-ORDINATES 577200 mE 5451200 mN DRILLING METHOD CABLE TOOL HOLE No. K255
 SURFACE R.L. 104.9 m BASEMENT R.L. 77.7 m CUTTING SHOE/ BIT DIAMETER 16.03 cm THEORETICAL VOLUME 40.7 litres PAGE 2 of 2
 DRILLER G SELBY SAMPLE WASHER S. MOORE ASSAY METHOD XRF GEOLOGIST R. MUNRO DATE 14 to 24 Feb 84

Section		Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
From m	To m							
20	22	43	115.7	3.44	5.68	132.2	132.2	20-21 Coarse & fine sand, heavy drift, white silty clay 21-22 Coarse & fine sand, heavy drift, small wash, white silty clay, small amount tin, ilmenite, monazite
22	24	35	142.4	0.34	0.69	19.8	19.8	22-23 Coarse & fine sand, heavy drift, brown cement 23-24 Coarse & fine sand, heavy drift, brown cement, yellow & white clay, pyrite
24	26	21	100.0	0.09	0.13	6.1	3.9	24-25 Coarse & fine sand, brown & white silty clay 25-26 Coarse & fine sand, brown & white silty clay, pyrite
26	28	20½	105.0	0.08	0.12	5.8	3.7	26-27 Coarse & fine sand, brown silty clay, decomposed granite 27-28 Decomposed granite, pyrite
28	29	7½	117.5	0.03	BLD	-	-	28-29 Decomposed granite, pyrite
29	30	9	124.5	0.04	BLD	-	-	29-30 Decomposed granite, pyrite
30	31	6	114.9	0.04	BLD	-	-	30-31 Decomposed granite, pyrite

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at 27.2 m

Grade from surface to inferred basement

Total recovered volume, surface to basement litres

Grade 1 at m g SnO2/m³

Total recovered tin 9.62 g SnO2

Grade 2 at 27.2 m 18.4 g SnO2/m³

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AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA PIONEER COLLAR CO-ORDINATES 577200 mE 5451100 mN DRILLING METHOD CABLE TOOL HOLE No. K256
 SURFACE R.L. 102.7 m BASEMENT R.L. 88.7 m CUTTING SHOE/
 BIT DIAMETER 16.03 cm THEORETICAL VOLUME 40.7 litres PAGE 1 of 2
 DRILLER G SELBY SAMPLE WASHER S MOORE ASSAY METHOD XRF GEOLOGIST R MUNRO DATE 27 Feb to 6 Mar 84

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO ₂	Grade 1 gSnO ₂ /m ³	Grade 2 g SnO ₂ /m ³	Description of Sample
0	2	13	91.4	0.05	0.06	5.0	2.0	0-1 Coarse & fine sand, yellow sandy clay. 1-2 Coarse & fine sand, yellow sandy clay,
2	4	21	113.7	1.33	2.16	102.9	66.3	ilmenite, monazite. 2-3 Coarse & fine sand, heavy drift. 3-4 Coarse & fine sand, heavy drift, yellow & white clay Tr tin, ilmenite, monazite.
4	6	23	99.6	0.29	0.41	17.9	12.7	4-5 Coarse & fine sand, heavy drift, white clay. 5-6 Coarse & fine sand, heavy drift, Tr tin, ilmenite, monazite.
6	8	31	99.6	0.75	1.06	34.4	32.8	6-7 Coarse & fine sand, heavy drift, white & brown silty clay. 7-8 Coarse & fine sand, heavy drift, white & brown silty clay, Tr tin, ilmenite, monazite.
8	10	30	119.2	0.26	0.44	14.8	13.5	8-9 Coarse & fine sand, heavy drift. 9-10 Coarse & fine sand, heavy drift, white silty clay Tr tin, ilmenite, monazite.
10	12	23 $\frac{1}{2}$	109.1	0.91	1.42	60.4	43.5	10-11 Coarse & fine sand, heavy drift, small wash, white silty clay. 11-12 Coarse & fine sand, heavy drift, white silty clay, small wash, Small amount tin, ilmenite, monazite.
12	14	18 $\frac{1}{2}$	102.4	0.34	0.50	26.9	15.3	12-13 Coarse & fine sand, heavy drift, white silty clay, small wash. 13-14 Coarse & fine sand, heavy drift, white silty clay, small wash, Tr tin, ilmenite, monazite.
14	16	25	80.4	0.21	0.24	9.6	7.4	14-15 Coarse & fine sand, decomposed granite. 15-16 Decomposed granite, ilmenite, monazite.
16	17	4	96.9	0.06	0.08	20.8	5.1	16-17 Decomposed granite, ilmenite, pyrite.

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at 14 m

Grade from surface to inferred basement

Total recovered volume, surface to basement litresGrade 1 at m g SnO₂/m³Total recovered tin 6.41 g SnO₂Grade 2 at 14 m 28.4 g SnO₂/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA..... PIONEER..... COLLAR CO-ORDINATES..... 57.7000..... mE..... 5451100..... mN DRILLING METHOD..... CABLE TOOL..... HOLE No..... K257.....
 SURFACE R.L..... 110.4..... m BASEMENT R.L..... 75.4..... m CUTTING SHOE/ BIT DIAMETER..... 16.03 cm..... THEORETICAL VOLUME..... 40.7..... litres PAGE... 1... of... 3
 DRILLER..... T. KING..... SAMPLE WASHER..... S. MOORE..... ASSAY METHOD..... XRF..... GEOLOGIST..... R. MUNRO..... DATE 29 Feb. to 19 Mar 84

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO ₂	Grade 1 gSnO ₂ /m ³	Grade 2 g SnO ₂ /m ³	Description of Sample
0	2	28½	125.5	50.06	0.11	3.8	3.3	0-1 Coarse & fine sand, heavy drift. 1-2 Coarse & fine sand, heavy drift, ilmenite, monazite
2	4	43	100.3	0.26	0.37	8.7	8.7	2-3 Coarse & fine sand, heavy drift. 3-4 Coarse & fine sand, heavy drift, yellow & white clay, ilmenite, monazite.
4	6	28	109.9	0.65	1.02	36.4	31.3	4-5 Coarse & fine sand, heavy drift. 5-6 Coarse & fine sand, heavy drift, ilmenite, monazite.
6	8	32	99.5	0.14	0.20	6.2	6.1	6-7 Coarse & fine sand, brown silty clay. 7-8 Coarse & fine sand, brown & yellow sandy clay, ilmenite, monazite.
8	10	29½	86.5	0.11	0.14	4.6	4.2	8-9 Coarse & fine sand. 9-10 Coarse & fine sand, white clay, ilmenite, monazite.
10	12	15	80.5	0.07	0.08	5.4	2.5	10-11 Coarse & fine sand, white & yellow clay. 11-12 Coarse & fine sand, white & yellow clay, ilmenite, monazite.
12	14	23	86.3	0.07	0.09	3.8	2.6	12-13 Coarse & fine sand, white clay. 13-14 Coarse & fine sand, white clay, ilmenite, monazite.
14	16	25½	103.3	0.05	0.07	2.9	2.3	14-15 Coarse & fine sand, white clay. 15-16 Coarse & fine sand, white clay, ilmenite, monazite.
16	18	37	102.4	0.09	0.13	3.6	3.6	16-17 Coarse & fine sand, white clay. 17-18 Coarse & fine sand, white clay, ilmenite, monazite.
18	20	30	117.7	0.05	0.08	2.8	2.6	18-19 Coarse & fine sand, white clay. 19-20 Coarse & fine sand, white & yellow clay, ilmenite, monazite.

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at..... 35..... m

Grade from surface to inferred basement

Total recovered volume, surface to basement..... litres

Grade 1 at m g SnO₂/m³Total recovered tin..... 2.36..... g SnO₂Grade 2 at 35 m 4.0 g SnO₂/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA PIONEER COLLAR CO-ORDINATES 577000 mE. 5451100 mN DRILLING METHOD CABLE TOOL HOLE No. K257
 SURFACE R.L. 110.4 m BASEMENT R.L. 75.4 m CUTTING SHOE/
 BIT DIAMETER 16.03 cm THEORETICAL VOLUME 40.7 litres PAGE 2 of 3
 DRILLER T KING SAMPLE WASHER S MOORE ASSAY METHOD XRF GEOLOGIST R. MUNRO DATE 29 Feb. to 19 Mar 87

Section		Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
From m	To m							
20	22	26	105.1	0.03	BLD	-	-	20-21 Coarse & fine sand, brown silty clay. 21-22 Coarse & fine sand, heavy drift, brown silty clay, Pyrite.
22	24	30	95.1	0.05	0.07	2.3	2.1	22-23 Coarse & fine sand, heavy drift, brown silty clay. 23-24 Coarse & fine sand, heavy drift, brown silty clay, Pyrite.
24	26	30½	107.5	0.03	BLD	-	-	24-25 Coarse & fine sand, heavy drift, brown silty clay. 25-26 Coarse & fine sand, heavy drift, brown silty clay, Pyrite
26	28	29	192.2	0.01	BLD	-	-	26-27 Coarse & fine sand, heavy drift, brown silty clay. 27-28 Coarse & fine sand, heavy drift, brown silty clay, Pyrite.
28	30	21	154.6	0.02	BLD	-	-	28-29 Coarse & fine sand, heavy drift, brown silty clay. 29-30 Coarse & fine sand, heavy drift, brown silty clay, Pyrite.
30	32	24	107.2	0.03	BLD	-	-	30-31 Coarse & fine sand, heavy drift, white clay. 31-32 Coarse & fine sand, heavy drift, white clay, Pyrite.
32	34	41	87.2	0.03	BLD	-	-	32-33 Coarse & fine sand, white & red clay, brown cement. 33-34 Coarse & fine sand, white & red clay, Pyrite.
34	36	21½	118.5	0.03	BLD	-	-	34-35 Coarse & fine sand, white clay. 35-36 Coarse & fine sand, white clay, decomposed granite, Pyrite.

Grade 1 calculated by relating recovered volume to recovered tin. Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%
 Drillers reported basement at 35 m Grade from surface to inferred basement
 Total recovered volume, surface to basement 2.36 litres Grade 1 at 35 m 4.0 g SnO2/m³
 Total recovered tin 2.36 g SnO2 Grade 2 at 35 m 4.0 g SnO2/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA PIONEER COLLAR CO-ORDINATES 577100 mE 545100 mN DRILLING METHOD CABLE TOOL THEORETICAL HOLE No. K258
 SURFACE R.L. 106.2 m BASEMENT R.L. 74.8 m CUTTING SHOE/ BIT DIAMETER 16.03 cm VOLUME 40.7 litres PAGE 1 of 3
 DRILLER G SELBY SAMPLE WASHER S MOORE ASSAY METHOD XRF GEOLOGIST R MUNRO DATE 6-14 Mar 84

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
0	2	23 $\frac{1}{2}$	96.3	0.06	0.08	3.5	2.5	0-1 Coarse & fine sand, heavy drift. 1-2 Coarse & fine sand heavy drift, ilmenite, monazite.
2	4	41	113.7	0.10	0.16	4.0	4.0	2-3 Coarse & fine sand, heavy drift. 3-4 Coarse & fine sand, heavy drift, small wash, brown cement, ilmenite, monazite.
4	6	24	120.7	0.05	0.08	3.6	2.6	4-5 Coarse & fine sand, white & yellow clay. 5-6 Coarse & fine sand, white & yellow clay, ilmenite, monazite.
6	8	21 $\frac{1}{2}$	103.8	0.05	0.07	3.4	2.3	6-7 Coarse & fine sand, heavy drift, white clay. 7-8 Coarse & fine sand, heavy drift, white clay, ilmenite, monazite.
8	10	20	99.2	0.04	BLD	-	-	8-9 Coarse & fine sand, heavy drift, white clay. 9-10 Coarse & fine sand, heavy drift, white clay, ilmenite, monazite.
10	12	24	109.5	0.10	0.16	6.5	4.8	10-11 Coarse & fine sand. 11-12 Coarse & fine sand, white & yellow clay, ilmenite, monazite.
12	14	30 $\frac{1}{2}$	206.2	0.16	0.24	7.9	7.5	12-13 Coarse & fine sand, heavy drift. 13-14 Coarse & fine sand, heavy drift, ilmenite, monazite.
14	16	32 $\frac{1}{2}$	90.0	0.05	0.06	2.0	2.0	14-15 Coarse & fine sand, white & yellow clay, brown silty clay. 15-16 Coarse & fine sand, brown silty clay, pyrite, ilmenite.

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at 31.4 m

Grade from surface to inferred basement

Total recovered volume, surface to basement 1.02 litres

Grade 1 at 31.4 m 2.0 g SnO2/m³

Total recovered tin 1.02 g SnO2

Grade 2 at 31.4 m 2.0 g SnO2/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA..... PIONEER..... COLLAR CO-ORDINATES... 577100.....mE... 545100.....mN DRILLING METHOD...CABLE...TOOL..... HOLE No...K259.....
 SURFACE R.L. 106.4.....m BASEMENT R.L. 90.0.....m CUTTING SHOE/ BIT DIAMETER... 16.03 cm... THEORETICAL VOLUME..... 40.7.....litres PAGE.1.....of... 1.....
 DRILLER... G SELBY..... SAMPLE WASHER... S MOORE..... ASSAY METHOD... XRF..... GEOLOGIST... R. MUNRO..... DATE..14-20.March.84

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
0	2	21	103.6	0.18	0.27	12.7	8.2	0-1 Coarse & fine sand, brown cement. 1-2 Coarse & fine sand, yellow clay, brown cement, ilmenite, monazite.
2	4	30	104.7	0.26	0.39	13.0	11.9	2-3 Coarse & fine sand, yellow clay. 3-4 Coarse & fine sand, yellow clay, Fine Tr tin, ilmenite, monazite.
4	6	19	99.5	0.04	BLD	-	-	4-5 Coarse & fine sand, white clay. 5-6 Coarse & fine sand, white clay, ilmenite, monazite.
6	8	26 $\frac{1}{2}$	100.0	0.04	BLD	-	-	6-7 Coarse & fine sand, white clay. 7-8 Coarse & fine sand, white clay, ilmenite, monazite.
8	10	36 $\frac{1}{2}$	116.5	0.03	BLD	-	-	8-9 Coarse & fine sand, white clay, 9-10 Coarse & fine sand, white clay, ilmenite, monazite.
10	12	27	118.9	0.03	BLD	-	-	10-11 Coarse & fine sand, white clay. 11-12 Coarse & fine sand, white clay, ilmenite, monazite.
12	14	30	91.4	0.05	0.07	2.2	2.0	12-13 Coarse & fine sand, white clay. 13-14 Coarse & fine sand, white clay, ilmenite, monazite.
14	16	27 $\frac{1}{2}$	85.7	0.04	BLD	-	-	14-15 Coarse & fine sand, heavy drift, white clay. 15-16 Coarse & fine sand, heavy drift, white clay, ilmenite, monazite.
16	18	23	85.8	0.03	BLD	-	-	16-17 Coarse & fine sand, heavy drift, white clay, decomposed granite.
18	19	13	113.3	0.03	BLD	-	-	17-18 Decomposed granite, monazite. 18-19 Decomposed granite, monazite.
19	20	11 $\frac{1}{2}$	92.4	0.03	BLD	-	-	19-20 Decomposed granite, monazite.

Grade 1 calculated by relating recovered volume to recovered tin.

Drillers reported basement at..... 16.4.....m

Total recovered volume, surface to basement..... litres

Total recovered tin.....0.73.....g SnO2

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Grade from surface to inferred basement

Grade 1 atm g SnO2/m³Grade 2 at16.4.....m2.7.....g SnO2/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA..... PIONEER..... COLLAR CO-ORDINATES..... 578450..... mE 5452598..... mN DRILLING METHOD..... CABLE TOOL..... HOLE No. K260.....
 SURFACE R.L. 83.9..... m BASEMENT R.L. 61.4..... m CUTTING SHOE/ BIT DIAMETER..... 16.03 cm..... THEORETICAL VOLUME..... 40.7..... litres PAGE..... 1..... of..... 2.....
 DRILLER..... T KING..... SAMPLE WASHER..... S MOORE..... ASSAY METHOD..... XRF..... GEOLOGIST..... R MUNRO..... DATE 19-28 March 84

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
0	2	27	106.0	0.23	0.35	12.9	10.7	0-1 Coarse & fine sand. 1-2 Coarse & fine sand, ilmenite, monazite.
2	4	36	89.0	0.19	0.24	6.7	6.7	2-3 Coarse & fine sand, yellow sandy clay. 3-4 Coarse & fine sand, heavy drift, ilmenite, monazite.
4	6	25	80.4	5.52	6.30	253.6	194.6	4-5 Coarse & fine sand, heavy drift. 5-6 Coarse & fine sand, heavy drift, Tr tin, ilmenite, monazite.
6	8	18	88.5	1.94	2.45	136.3	72.3	6-7 Coarse & fine sand, heavy drift. 7-8 Coarse & fine sand, heavy drift, Tr tin, ilmenite, monazite.
8	10	20	91.9	1.13	1.48	74.2	45.5	8-9 Coarse & fine sand, white clay. 9-10 White Clay, Coarse & fine sand, Tr tin, ilmenite, monazite.
10	12	21	99.0	0.22	0.31	14.8	9.6	10-11 White clay, coarse & fine sand. 11-12 White clay, coarse & fine sand, ilmenite, monazite.
12	14	19	109.9	0.22	0.34	18.1	10.6	12-13 Coarse & fine sand, heavy drift, white clay. 13-14 Coarse & fine sand, heavy drift, white clay, ilmenite, monazite.
14	16	22½	104.2	0.09	0.13	5.6	4.1	14-15 White clay, coarse & fine sand. 15-16 White clay, coarse & fine sand, ilmenite, monazite.
16	18	24	112.4	0.17	0.27	11.4	8.4	16-17 Coarse & fine sand, heavy drift. 17-18 Coarse & fine sand, heavy drift, ilmenite, monazite.
18	20	30	82.9	3.57	4.23	140.9	129.8	18-19 Coarse & fine sand, heavy drift, white clay. 19-20 Coarse & fine sand, heavy drift, birds eye wash, white clay, Small amount tin, ilmenite, monazite.

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at..... 22.5..... m

Grade from surface to inferred basement

Total recovered volume, surface to basement..... litres

Grade 1 at m g SnO2/m³

Total recovered tin..... 20.94..... g SnO2

Grade 2 at 22.5..... m 57.2..... g SnO2/m³

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA PIONEER COLLAR CO-ORDINATES 578 368 mE 5452 682 mN DRILLING METHOD CABLE TOOL HOLE No. K261
 SURFACE R.L. 87.2 m BASEMENT R.L. 60.2 m CUTTING SHOE/ BIT DIAMETER 16.03 cm THEORETICAL VOLUME 40.7 litres PAGE 2 of 2
 DRILLER G SELBY SAMPLE WASHER S. MOORE ASSAY METHOD XRF GEOLOGIST R. MUNRO DATE 20-28 March 84

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
20	22	17	104.4	0.66	0.98	57.9	30.2	20-21 Coarse & fine sand, heavy drift, white silty clay.
22	24	29 ¹ / ₂	122.9	2.02	3.55	120.2	109.9	21-22 Coarse & fine sand, heavy drift, white silty clay, Fine Tr tin, ilmenite, monazite.
								22-23 Coarse & fine sand, heavy drift, few pieces of birds eye wash.
24	26	35	To Size		131.41	3754.6	3754.6	23-24 Coarse & fine sand, heavy drift, few pieces of birds eye wash, Small amount tin, ilmenite, monazite
								24-25 Coarse & fine sand, heavy drift, birds eye wash.
								25-26 Coarse & fine sand, heavy drift, birds eye wash, Large amount tin, ilmenite.
26	28	32	To Size		265.72	8303.8	8241.9	26-27 Coarse & fine sand, heavy drift, few pieces of birds eye wash.
								27-28 Coarse & fine sand, decomposed granite, Large amount tin, ilmenite.
28	29	8	107.5	2.51	3.85	481.8	238.8	28-29 Decomposed granite, Small amount tin, ilmenite.
29	30	11	106.9	1.07	1.60	148.5	99.2	29-30 Decomposed granite, Tr tin, ilmenite.

Grade 1 calculated by relating recovered volume to recovered tin. Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%
 Drillers reported basement at 27 m Grade from surface to inferred basement
 Total recovered volume, surface to basement 421.93 litres Grade 1 at 27 m 944.0 g SnO2/m³
 Total recovered tin 421.93 g SnO2 Grade 2 at 27 m 944.0 g SnO2/m³

AUSTRALIAN ANGLO AMERICAN LTD.

Cassiterite Sizing Results

Hole K261

	NOMINAL MESH NOS.	APERTURE mm	g OF SnO ₂ ASSAYED	PERCENTAGE SnO ₂ (FRACTION)	CUMM. PERCENT-AGE SnO ₂
Sample Interval <u>24-26</u>					
	plus 22	.71	0.19	0.14	0.14
SAMPLE VOLUME <u>35 litres</u>	plus 30	.5	5.68	4.32	4.47
GRADE <u>3754.6 g/m³</u>	plus 60	.25	91.84	69.89	74.36
TOTAL GRAMS OF SnO₂ <u>131.41</u>	plus 120	.125	32.12	24.44	98.79
	minus 120		1.58	1.20	100.00
Sample Interval <u>26-28</u>					
	plus 22	.71	0.18	0.06	0.06
SAMPLE VOLUME <u>32 litres</u>	plus 30	.5	6.49	2.44	2.51
GRADE <u>8241.9 g/m³</u>	plus 60	.25	162.69	61.22	63.74
TOTAL GRAMS OF SnO₂ <u>265.72</u>	plus 120	.125	85.52	32.18	95.92
	minus 120		10.82	4.07	100.00
Sample Interval _____					
	plus 22	.71			
SAMPLE VOLUME _____	plus 30	.5			
GRADE _____	plus 60	.25			
TOTAL GRAMS OF SnO₂ _____	plus 120	.125			
	minus 120				