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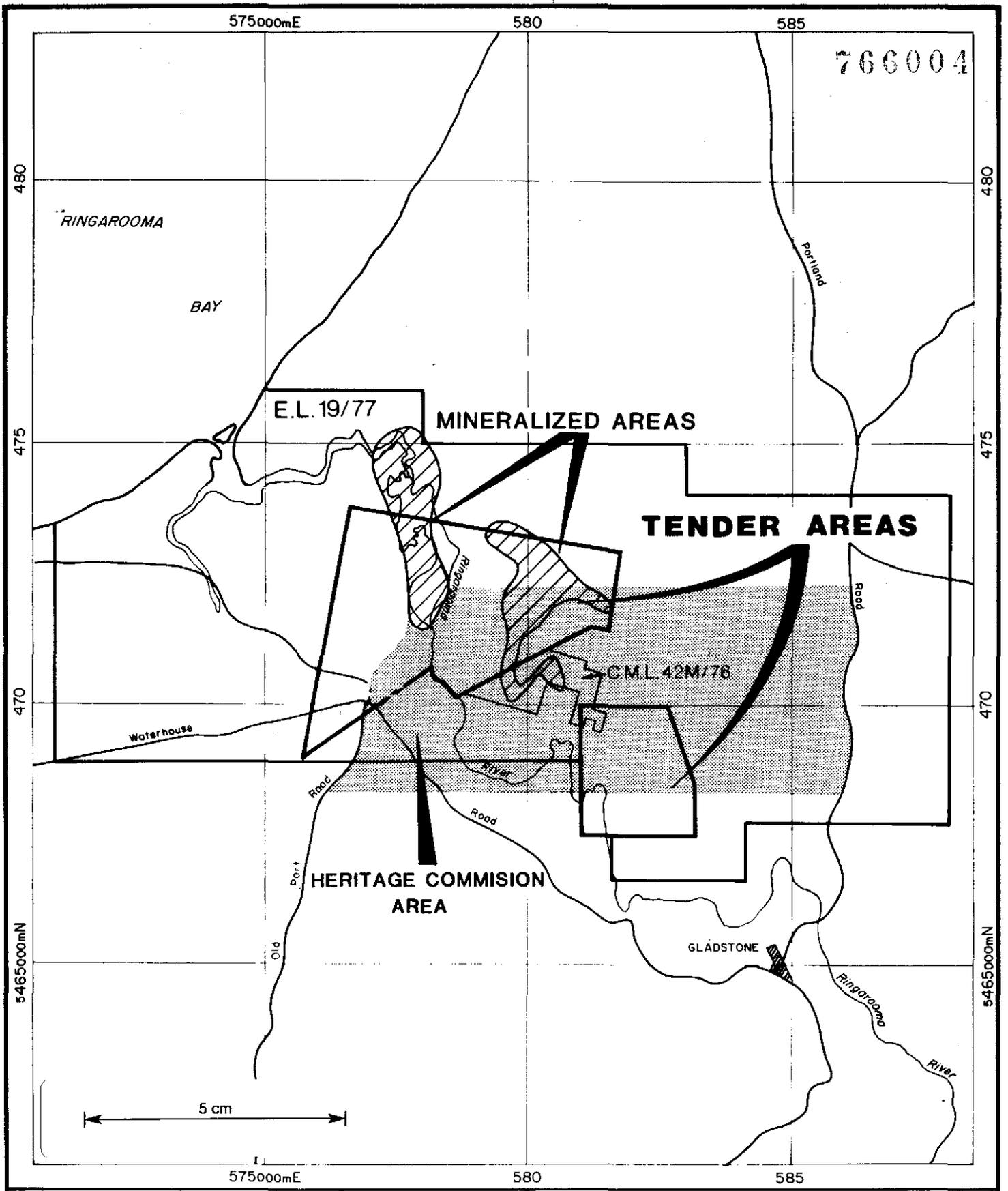
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E.L. 19/77 GREAT NORTHERN PLAIN
AND CONSOLIDATED LEASE 42M/76

QUARTERLY EXPLORATION PROGRESS REPORT
FOR PERIOD ENDING 11 APRIL, 1982

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S81-0081
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LOCALITY



HELLYER MINING & EXPL. PTY. LTD

NORTH EAST TASMANIA
**LOCALITY MAP SHOWING
 TENEMENT AREAS
 AND MINERALIZED ZONES
 & AREA TO BE INCLUDED
 IN NATIONAL TRUST**



1. TENEMENT

The Australian Heritage Commission announced in the press on 30 March, 1982, its intention to enter a major section of the Great Northern Plain on the Register of the National Estate. The Heritage Commission's intention appears to represent a potential land use conflict with alluvial mining. The prescribed zone and its relationship to E.L. 19/77 and CML 42M/76 is outlined on Figure 1.

The Department of Mines advised SANTOS Ltd on 31 March, 1982, that the Ringarooma River Tender Areas (see Figure 1) located within the boundary of E.L. 19/77 were then available for marking out as an Exploration Licence.

Acquisition of title to the Ringarooma River area has been deferred pending clarification of the Heritage Commission's intentions.

2. WORK COMPLETED

2.1 Churn Drilling

Churn drilling has utilised two Department of Mines rigs, one since 11 January, 1982, and one intermittently since 2 February, 1982, together with one rig under contract from H.J. Stacpoole since 15 February, 1982. The following number of holes had been completed as at 11 April, 1982:

	No. of Holes	Metre- age	Av. Depth (m)	In Progress
E.L.19/77	26	548.0	21.08	GNP 123
CML 42M/76	3	44.0	14.67	

Drill hole locations and summary assay results available at time of reporting are shown on Figure 2.

Most of the drilling to date has concentrated on lines BL-3, BL-5 and BL-6 (see Figure 2) and cross sections for lines BL-3 and BL-5 are included as Figures 3 and 4 respectively. These sections indicate that the area is divided into an eastern zone of relatively shallow overburden and a western zone of considerably thicker overburden. This change occurs between holes 78 and 79 on line BL-3 (see Figure 3) and between holes 93 and 25 on line BL-5 (see Figure 4).

A complete listing of all assay data received to date is included as Appendix I.

2.2 Calweld Bulk Sample Drilling

A Calweld 200B rig was contracted from W.L. Sides & Son of Melbourne and arrived on site on 10 February, 1982. The rig was employed to provide bulk samples by drilling 30 inch (0.76 m) diameter cased holes. The holes were located immediately adjacent to previous churn drill holes (see Figure 1) and the samples placed in 200 litre drums ready for treatment. The bulk samples will allow more accurate grade determinations (to be compared with the adjacent churn drill hole results) and engineering and metallurgical tests to be carried out on the payzone and overburden material. All heavy mineral concentrates are to be split prior to assaying so that detailed mineralogical and grain sizing studies can be undertaken.

A total of 8 holes totalling approximately 142 metres were completed; 4 holes were located on E.L. 19/77, 3 on A to P 4/80 and 1 on CML 42M/76.

Samples from the payzone section of each hole are being concentrated using a trommel and jig (see section 2.3 below) and to date material from holes CDH1, CDH2 and CDH4 has been treated. Assay results for holes CDH1 and CDH2 have been received and are listed in Appendix II, but no grade calculations had been made at the time of reporting.

2.3 Bulk Sample Treatment Plant

Treatment plant to process the bulk samples was initially obtained from the Tasmanian Department of Mines in Launceston and set up in the old Dorset Tin Dredging buildings (currently being rented from Amdex Mining Ltd.) located approximately 1 kilometre southeast of the old MacGregor workings (see Figure 1).

The plant consisted of a small vibrating screen, small two hutch jig and a very small Wilfley table. Trials using this equipment indicated that it would be unsuitable due to:

- a) poor cassiterite recoveries (up to 30% was being lost in tailings); and
- b) limited throughput capacity.

Alternative equipment was eventually obtained and erected on site, comprising a small rotating screen (trommel) hired from the Tonganah Clay Mine at Scottsdale and a larger two hutch jig hired from L.M. Barnett in Derby.

2.3 (cont)

Trial runs indicated an acceptable throughput rate and reasonable cassiterite recoveries (5% loss in tailings) and treatment of drill samples commenced in the third week of March.

2.4 Mining Consultant

Mining engineering consultant Mr. K. Connell spent nine days on site during February advising on all aspects of the project, including alluvial drilling techniques, bulk sampling, sample treatment, mining considerations and the condition of the Dorset Dredge.

2.5 Photography & Survey

Low level colour aerial photography at 1:20,000 and 1:10,000 scales was flown in January, 1982. Prior to flying the photography, a series of 14 control points and most churn drillhole sites were co-ordinated, heighted and marked to allow photo detection and mapping.

Detailed base maps and photogrammetric contour maps will be prepared using the photographic and survey data.

2.6 Gridding

A series of seven cross-lines at 200 metre spacing and a baseline totalling approximately 11.0 line kilometres have been laid out extending from BL-3 towards the Ringarooma River tender area.

2.7 Sizing and Mineralogical Work

Ten cassiterite concentrates retrieved from the Preussag (1979) drilling programme were submitted to AMDEL for sizing analysis by dry screening. Four of the samples were examined to determine the mineralogy of the gangue minerals. The complete results of these investigations are included in Appendix III.

In summary, the size analysis revealed the following overall distribution:

BS Mesh Size	Wt %
+ 36	10.03
- 36 + 72	56.95
- 72 + 100	27.31
-100 + 200	5.69
- 200	0.08

The mineralogical examination revealed ubiquitous pyrite, marcasite, ilmenite, zircon, epidote and rutile with less common garnet, staurolite, apatite, sphene and ?bismuthinite. Inclusions of tantalite and also of bornite and chalcopyrite were observed in the cassiterite.

3. PROPOSED WORK

Proposed work for the following three months includes the following:

- a) Churn drilling - mostly at 200 metre spacing or 100 metre spacing will continue in the Bowlers Lagoon area;
- b) Bulk sample treatment - will be completed;
- c) Preliminary environmental and socio-economic studies will be undertaken in April;
- d) Engineering and metallurgical studies will be carried out as the project status requires;
- e) Hydrological investigations, involving test pumping and water table measurement are planned for May;
- f) Investigation of available development options and their anticipated viability will continue;
- g) Land title search will be conducted;
- h) Clarification of the intentions of the Australian Heritage Commission will be pursued;
- i) A preliminary feasibility study, in which all data is collated and assessed and the most attractive development option(s) evaluated, will be prepared in June, 1982.

4. EXPENDITURE

Expenditure incurred during the three months ending 31 March, 1982, is estimated to have been \$173,538.00 but the Company Accounts Department records indicate that the following amounts have been paid out as at 31 March, 1982:

.	Salaries - Adelaide	4,757
.	Casual Labour	1,831
.	On Costs	1,976
.	Aust. Travel & Accommodation	834
.	Transportation - Materials	181
		<hr/>
	TOTAL	\$9,578
		<hr/>

APPENDIX I

CHURN DRILLHOLE ASSAY DATA



DEPARTMENT OF MINES—TASMANIA

766010

TELEPHONES:

Metallurgical Research	} 44 2431-2 (2 lines)
Laboratory	
Mines Inspection	
Explosives & Inflammable Liquids	

LAUNCESTON OFFICES
287 WELLINGTON STREET
SOUTH LAUNCESTON 7250

15th January, 1982

Santos Ltd.,
P.O. Box 121,
NORTH ADELAIDE S.A. 5006

Attn: Simon Lee

Reg. Nos. 813783 - 813861 & 814574

GNP Holes 40, 41, 42, 43, 44, 45

Dear Sir,

Please find attached results of analyses from these holes. Such analyses have been done in the same manner as indicated in my letter to you dated 30th Sep'81.

Rutile contents on those samples magnetically separated will be forwarded at a later date.

Yours faithfully,

(H. K. Wellington)
Chief Chemist & Metallurgist

Encl.

<u>Reg. No.</u>	<u>Description</u>	<u>Mass g.</u>	<u>% Sn</u>	<u>% Zr</u>	<u>Au Mass mg.</u>
813783*	GNP 40 0 - 2	69.3	<0.01	0.18	Nil
784	2 - 4	23.2	0.16	P	0.01
785	4 - 6	56.6	0.09	P	Nil
813786*	6 - 8	62.5	0.25	0.53	Nil
787	8 - 10	46.3	0.50	P	Nil
788	10 - 12	64.6	0.29	P	0.02
789	12 - 14	65.1	9.2	P	0.20
790	14 - 16	51.5	11.9	P	0.22
813791	16 - 18	43.9	4.3	P	0.38
792	18 - 20	49.6	0.87	P	0.13
793	20 - 22	65.8	0.29	P	Nil
794*	22 - 24	73.3	0.11	0.14	
795*	GNP 41 0 - 2	81.4	0.05	0.43	
813796	2 - 4	33.4	0.16	P	
797	4 - 6	47.7	0.10	P	
798	6 - 8	69.8	0.06	P	
799	8 - 10	68.5	0.02	P	
800*	10 - 12	56.5	0.17	0.10	
813801	12 - 14	57.7	0.38	P	
814574*	14 - 16	31.0	0.16	0.03	
813802	GNP 42 0 - 2	43.1	0.01	P	
803	2 - 4	18.4	0.05	P	
804	4 - 6	60.4	0.01	P	
805	6 - 8	61.6	0.02	P	
813806	8 - 10	27.7	0.01	P	
807	10 - 12	28.0	0.01	P	
808	12 - 14	52.9	0.01	P	
809	14 - 16	45.1	0.03	P	Nil
810	16 - 18	100.6	23.7	1.54	1.13
813811	18 - 20	153.5	5.6	0.50	0.12
812	20 - 22	145.8+	1.67	0.11	0.24

+The non-magnetics were acid-digested to remove excessive amount of sulphides present to facilitate the gravity concentration and recovery of the gold, and the mass indicated is that of the residue after such treatment, and the assays indicated relate to such mass.

<u>Reg. No.</u>	<u>Description</u>	<u>Mass g.</u>	<u>% Sn</u>	<u>% Zr</u>	<u>Au Mass mg.</u>	<u>Cu Mass g.</u>
813813*	GNP 43	0 - 2	51.5	0.04	0.89	Nil
814		2 - 4	21.9	0.16	P	0.06
815*		4 - 6	42.3	0.05	0.29	Nil
813816		6 - 8	40.8	0.02	P	Nil
817		8 - 10	17.3	0.03	P	0.01
818		10 - 12	36.5	0.03	P	Nil
819		12 - 14	24.6	0.03	P	Nil
820		14 - 16	12.5	0.10	P	Nil
813821		16 - 18	41.5	3.3	P	Nil
822*		18 - 20	98.6	8.0	1.58	0.06
823		20 - 22	22.6	0.13	P	Nil
824		22 - 24	5.1	0.40	P	Nil
825	GNP 44	0 - 2	28.5	0.01	P	Nil
813826		2 - 4	21.4	0.06	P	Nil
827		4 - 6	19.8	0.04	P	0.11
828		6 - 8	22.4	0.06	P	Nil
829		8 - 10	22.5	0.04	P	Nil
830		10 - 12	28.6	0.12	P	Nil
813831		12 - 14	54.7	1.62	P	Nil
832		14 - 16	43.0	8.5	P	Nil
833		16 - 18	47.1	4.8	P	0.04
834		18 - 20	53.0	5.0	P	0.41
835*		20 - 22	88.1	5.8	0.61	0.19
813836		22 - 24	45.3	0.61	P	0.07
837 *		24 - 26	24.9	0.40	0.05	Nil
838 *		26 - 28	27.2	0.37	0.73	Nil
839	GNP 45	0 - 2	30.4	0.04	P	Nil
840		2 - 4	38.9	0.19	P	Nil
813841		4 - 6	51.6	0.12	P	Nil
842		6 - 8	33.7	0.13	P	0.00
843		8 - 10	15.9	0.12	P	Nil
844		10 - 12	26.1	0.27	P	Nil
845		12 - 14	18.1	0.36	P	Nil

<u>Reg. No.</u>	<u>Description</u>	<u>Mass g.</u>	<u>% Sn</u>	<u>% Zr</u>	<u>Au Mass</u> <u>mg.</u>	<u>Cu Mass</u> <u>g.</u>
813846	GNP 45	14 - 16	37.6	0.76	P	0.03
847*		16 - 18	110.8	7.8	1.51	Nil
848		18 - 20	86.9	6.4	P	Nil
849		20 - 22	40.1	5.8	P	Nil
850		22 - 24	51.0	3.0	P	Nil
813851		24 - 26	51.4	1.43	P	Nil
852		26 - 28	99.9	4.9	P	0.01
853*		28 - 30	95.4	4.6	0.54	Nil
854*		30 - 32	38.1 +	5.5	0.74	
855		32 - 34	48.3 +	0.25	P	
813856		34 - 36	8.4 +	0.46	P	
857		36 - 38	18.1 +	0.33	P	
858		38 - 40	38.3 +	0.59	P	
859		40 - 42	52.5 +	0.51	P	
860		42 - 44	22.7 +	0.51	P	
813861		44 - 46	26.4 +	1.30	P	Nil

+The non-magnetics were acid-digested with dilute nitric acid to dissolve the native copper present, and the mass indicated is that of the residue after such treatment, and the assays indicated relate to such mass.

Analyses by.....

J. Rhodes
J. H. Wellington

Large quantities of magnetite were present in samples containing native copper.

H. K. Wellington
(H. K. Wellington)
Chief Chemist & Metallurgist

766013



DEPARTMENT OF MINES—TASMANIA

LAUNCESTON OFFICES
287 WELLINGTON STREET
SOUTH LAUNCESTON 7250

TELEPHONES:

Metallurgical Research } 44 2431-2
Laboratory }
Mines Inspection } (2 lines)
Explosives & Inflammable Liquids }

4th February 1982

Santos Ltd,
P.O. Box 121,
NORTH ADELAIDE S.A. 5006

Attn. Simon Lee

GNP Holes 40, 41, 42, 43, 44, 45

Dear Sir,

Please find below results of analyses of rutile content, previous results sent on the 15th Jan'82.

<u>Reg. No</u>	<u>Description</u>	<u>% TiO₂</u>
813783	GNP 40 0 -- 2	<u>0.24</u>
813786	6 - 8	0.47
813794	22 - 24	0.35
813795	GNP 41 0 - 2	0.52
813800	10 - 12	0.11
814574	14 - 16	0.13
813810	GNP 42 16 - 18	0.89
813811	18 - 20	0.32
813812	20 - 22	0.22
813813	GNP 43 0 - 2	1.92
813815	4 - 6	0.36
813822	18 - 20	0.98
813835	GNP 44 20 - 22	0.32
813837	24 - 26	0.14
813838	26 - 28	0.89
813847	GNP 45 16 - 18	0.75
813853	28 - 30	0.37
813854	30 - 32	0.39

Yours faithfully,

(H. K. Wellington)
Chief Chemist & Metallurgist

Analyses by. *M. J. ...*

DEPARTMENT OF MINES—TASMANIALAUNCESTON OFFICES
287 WELLINGTON STREET
SOUTH LAUNCESTON 7250

TELEPHONES:

Metallurgical Research	} 44 2431-2 (2 lines)
Laboratory	
Mines Inspection	
Explosives & Inflammable Liquids	

9th February 1982

Santos Ltd,
P.O. Box 121,
North Adelaide S.A. 5006

Attn. Simon LeeGNP Holes 46, 47, 48, 49, 50, 51, 52 & 62Reg. Nos 813862-894 & 814631-706

Dear Sir,

Please find attached results of samples submitted to this laboratory on the 7th Aug & 21st Dec '81 and stated to from the G.N.P. Holes. as above.

Yours faithfully,

(H. K. Wellington)
Chief Chemist & Metallurgist

Santos Reg. No 813862 - 3903

<u>Reg. No</u>	<u>Description</u>	<u>Mass g.</u>	<u>% Sn</u>	<u>%Zr</u>	<u>% TiO₂</u>	<u>Au Mass mg.</u>
813862	GNP 46	0 - 2	11.7	0.03		Nil
863		2 - 4	6.9	0.7		Nil
864		4 - 6	16.8	0.09		0.04
865		6 - 8	32.9	0.03		Nil
866		8 - 10	27.4	0.05		Nil
813867		10 - 12	26.7	0.12		Nil
868		12 - 14	45.2	0.27		Nil
869		14 - 16	52.8	4.5		0.22
870		16 - 18	51.7	0.88		Nil
871		18 - 20	52.2	0.15		Nil
813872		20 - 22	35.3	2.8		Nil
873		22 - 24	53.5	4.1		Nil
874*		24 - 26	41.7	2.6	0.45	0.32
875		26 - 28	40.1	2.9		0.11
876		28 - 30	42.7	7.3		Nil
813877		30 - 32	38.5	0.85		Nil
878*		32 - 34	27.4	.23	0.16	0.25
879*		34 - 36	39.1	.04	0.05	0.12
880	GNP 47	0 - 2	48.8	0.02		Nil
881		2 - 4	24.8	0.03		Nil
813882		4 - 6	27.1	0.02		Nil
883		6 - 8	36.6	0.05		Nil
884		8 - 10	26.1	0.08		0.02
885		10 - 12	46.8	0.08		Nil
886*		12 - 14	50.6	7.5	2.40	1.83
813887		14 - 16	35.0	3.0		Nil
888*		16 - 18	48.9	0.55	1.13	1.19
889		18 - 20	45.4	0.25		Nil
890		20 - 22	21.5	0.12		Nil
891		22 - 24	39.6	0.80		Nil
813892*		24 - 26	37.1	0.30		Nil
893*		26 - 28	50.6	0.03	0.04	0.08
894		28 - 30	39.5	0.01		Nil

766016

<u>Reg. No</u>	<u>Description</u>	<u>Mass g.</u>	<u>% Sn</u>	<u>% Zr</u>	<u>% TiO₂</u>	<u>Au Mass</u> <u>mg.</u>	
814631	GNP 48	0 - 2	10.6	0.02		Nil	
632		2 - 4	26.9	<0.01		Nil	
633		4 - 6	18.9	0.05		Nil	
634		6 - 8	27.4	0.03		Nil	
635		8 - 10	20.3	0.03		Nil	
814636		10 - 12	71.6	0.03		Nil	
637		12 - 14	23.9	0.07		Nil	
638		14 - 16	34.3	0.02		Nil	
639		16 - 18	85.7	3.9		Nil	
640*		18 - 20	75.5	9.8	2.82	1.48	Nil
814641		20 - 22	39.6	16.6		0.20	
642*		22 - 24	72.9	9.5	2.72	1.70	Nil
643*		24 - 26	81.1	16.8	1.56	0.73	Nil
644		26 - 28	10.5	19.5	-		Nil
645	GNP 49	0 - 2	77.1	0.04		Nil	
814646		2 - 4	49.7	0.20		0.04	
647		4 - 6	66.2	0.02		Nil	
648		6 - 8	51.2	0.02		Nil	
649		8 - 10	73.6	0.02		Nil	
650		10 - 12	64.8	0.01		Nil	
814651		12 - 14	109.7	0.01		Nil	
652		14 - 16	64.7	0.02		Nil	
653		16 - 18	107.4	3.8		Nil	
654*		18 - 20	61.6	19.0	1.37	0.72	0.22
655*		20 - 22	58.3+	6.9	0.88	0.63	0.06
814656*		22 - 24	73.5+	0.94	0.17	0.26	0.24
657		24 - 26	114.0	0.15	-		Nil
658		26 - 28	103.1	0.03		Nil	
659	GNP 50	0 - 2	35.1	0.02		Nil	
660		2 - 4	25.9	0.04		Nil	

+The non-magnetics were acid-digested to remove excessive amount of sulphides present to facilitate the gravity concentration and recovery of the gold, and the mass indicated is that of the residue after such treatment, and the assays indicated relate to such mass.

<u>Reg. No</u>	<u>Description</u>	<u>Mass g</u>	<u>% Sn</u>	<u>% Zr</u>	<u>% TiO₂</u>	<u>Au Mass mg.</u>
814661	GNP 50	4 - 6	88.9	0.02		0.01
662		6 - 8	51.7	0.03		Nil
663		8 - 10	93.9	0.04		Nil
664		10 - 12	59.7	0.16		Nil
665		12 - 14	90.5	0.07		Nil
814666		14 - 16	70.3	0.05		Nil
667		16 - 18	74.0	0.04		Nil
668		18 - 20	105.5	0.02		Nil
669*		20 - 22	132.4	0.05	0.18	0.19
670		22 - 24	124.9	0.02	P	Nil
814671*		24 - 26	134.1	0.30	0.51	0.43
672		26 - 28	77.6	3.1	P	Nil
673*		28 - 30	99.1	2.4	0.82	0.50
674		30 - 32	69.3	0.35	P	0.14
675*		32 - 34	92.3	0.54	0.13	0.24
814676		34 - 36	75.9	0.05	P	Nil
677	GNP 51	0 - 2	32.0	0.01	P	Nil
678		2 - 4	47.8	0.04	P	Nil
679		4 - 6	56.8	0.02	P	0.06
680		6 - 8	70.9	0.02	P	Nil
814681*		8 - 10	91.4	0.09	0.13	0.14
682*		10 - 12	82.4	0.11	0.26	0.28
683		12 - 14	86.2	0.27	P	Nil
684		14 - 16	65.9	0.12	P	Nil
685*		16 - 18	33.6	0.07	0.17	0.24
814686	GNP 52	0 - 2	48.0	<0.01	P	Nil
687		2 - 4	43.5	0.02	P	Nil
688		4 - 6	74.5	0.02	P	Nil
689		6 - 8	73.8	0.80	P	Nil
690*		8 - 10	71.8	0.09	0.08	0.17

766018

<u>Reg. No.</u>	<u>Description</u>	<u>Mass g.</u>	<u>% Sn</u>	<u>% Zr</u>	<u>%TiO₂</u>	<u>Au Mass mg.</u>
814691*	GNP 52 10 - 12	72.9	0.03	0.03	0.15	Nil
692	12 - 14	60.2	0.02	P		Nil
693	14 - 16	52.3	0.04	P		Nil
694	16 - 18	68.4	0.07	P		Nil
695*	18 - 20	72.9	0.09	0.20	0.30	Nil
814696	GNP 62 0 - 2	39.9	<0.01	P		Nil
697	2 - 4	30.8	0.01	P		Nil
698	4 - 6	95.0	0.03	P		Nil
699	6 - 8	66.8	0.66	P		Nil
700*	8 - 10	92.5	0.65	0.49	0.42	Nil
814701	10 - 12	63.7	0.18	P		Nil
702	12 - 14	76.5	0.12	P		Nil
703	14 - 16	74.4	0.13	P		Nil
704*	16 - 18	133.8	3.5	0.85	0.62	Nil
814705*	18 - 19	102.1 ∅	9.8	0.70	0.41	Nil
814706	19 - 20	13.9 ∅	0.39	P		Nil

∅ Native copper present.

Analyses by *M. Smith*
L. H. Gray
G. H. Kellogg

[Signature]
(H. K. Wellington)
Chief Chemist & Metallurgist



DEPARTMENT OF MINES—TASMANIA

LAUNCESTON OFFICES
287 WELLINGTON STREET
SOUTH LAUNCESTON 7250

TELEPHONES:

Metallurgical Research	} 44 2431-2 (2 lines)
Laboratory	
Mines Inspection	
Explosives & Inflammable Liquids	

2nd March 1982

Santos Ltd,
P.O. Box 121,
North Adelaide S.A. 5006

Attn Simon Lee

GNP Holes 63, 69, 70, 71, Mayfield 66, 67 & 68

Reg. Nos 814707-4821

Dear Sir,

Please find enclosed results for bore holes as above.

Examination of some particles that have occurred spasmodically in the above bore holes and bore holes previously reported, has shown that the particles are naturally occurring lead.

Also present in a lot of samples is a salt which crystallises out on drying of the samples, and this salt has been found to be calcium sulphate.

Sample No 813810, GNP 42, 16-18 has shown about 500 ppm of niobium and about 100 ppm of tantalum.

Yours faithfully,

H. K. Rhodes for
(H. K. Wellington)
Chief Chemist & Metallurgist

Santos Reg. Nos 814707-4821

<u>Reg. No</u>	<u>Description</u>	<u>Magg g</u>	<u>%Sn</u>	<u>%Zr</u>	<u>%TiO₂</u>	<u>Au Mass mg</u>	
814707	GNP 63	0 - 2	93.5	0.02	P	Nil	
708		2 - 4	57.2	0.05	P		
709		4 - 6	81.5	0.06	P		
710		6 - 8	85.1	0.02	P		
711		8 - 10	60.4	<0.01	P		
814712		10 - 12	89.4	0.02	P		
713*		12 - 14	90.2	0.02	0.21		0.32
714		14 - 16	75.4	0.21	P		
715		16 - 18	75.6	0.15	P		
716		18 - 20	75.7	0.11	P		
814717		20 - 22	94.5	0.10	P		
718		22 - 24	74.9	0.04	P		
719		24 - 26	93.2	0.04	P		
720*		26 - 28	101.6	0.02	0.14		0.31
721		28 - 30	73.0	0.31	P		
814722		30 - 32	57.2 @	0.22	P		
723*		32 - 34	85.3	2.10	0.41	0.32	
724		34 - 35	66.2	2.35	P	Nil	
725		35 - 36	76.8	0.52	P	0.01	
726*	Mayfield 66	0 - 2	102.5	<0.01	<0.01	0.04	Nil
814727*		2 - 4	80.2	0.01	0.05	0.09	
728*		4 - 6	22.1	<0.01	0.04	0.24	
729*		6 - 8	29.8	<0.01	0.03	0.22	
730*		8 - 10	45.4	<0.01	0.04	0.22	
731*		10 - 12	24.0	<0.01	0.11	0.26	
814732	Mayfield 67	0 - 2	58.8	0.03	P	Nil	
733		2 - 4	52.0	0.08	P		
734		4 - 6	90.8	0.02	P		
735		6 - 8	124.1	0.01	P		
736		8 - 10	91.6	1.51	P		

∅ Mercury present

@ Sample dropped before weighing less than 10g lost

766021

<u>Reg. No</u>	<u>Description</u>	<u>Mass g</u>	<u>%Sn</u>	<u>%Zr</u>	<u>%TiO₂</u>	<u>Au Mass</u> <u>mg</u>	
814737	Mayfield 67	10 - 12	82.7	0.22	P	Nil	
738		12 - 14	38.3	0.07	P		
739		14 - 16	64.8	0.03	P		
740		16 - 18	99.3	<0.01	P		
741*		18 - 20	59.6+	0.04	1.4		2.3
814742*		20 - 22	45.8+	0.03	0.9		1.9
743*		22 - 24	33.9+	0.03	0.4		0.8
744	Mayfield 68	0 - 2	88.0	0.02	P		
745		2 - 4	91.3	0.03	P		
746		4 - 6	71.1	0.04	P		
814747		6 - 8	38.6	0.05	P		
748*		8 - 10	114.3	0.28	0.3		0.3
749		10 - 12	75.8	0.04	P		
750		12 - 14	78.9	0.02	P		
751		14 - 16	58.9	0.03	P		
814752		16 - 18	31.3	0.13	P		
753		18 - 20	100.1	0.06	P		
754		20 - 22	74.4	0.34	P		
755*		22 - 24	16.6+	0.94	0.9	0.9	
756*		24 - 26	17.6+	0.18	0.6	0.3	
814757	GNP 69	0 - 2	61.7	<0.01	P		
758		2 - 4	54.4	0.01	P		
759		4 - 6	81.3	<0.01	P		
760		6 - 8	78.8	<0.01	P		
761		8 - 10	79.7	<0.01	P		
814762*		10 - 12	112.8	0.01	1.3	1.8	
763		12 - 14	76.3	<0.01	P		
764		14 - 16	79.1	<0.01	P		
765		16 - 18	18.3	<0.01	P		
766		18 - 20	62.6	0.02	P	Nil	

+The non-magnetics were acid-digested to remove excessive amount of sulphides present to facilitate the gravity concentration and recovery of the gold, and the mass indicated is that of the residue after such treatment, and the assays indicated relate to such mass.

760022

<u>Reg. No</u>	<u>Description</u>	<u>Mass g</u>	<u>%Sn</u>	<u>%Zr</u>	<u>%TiO₂</u>	<u>Au Mass mg</u>
814767	GNP 69	20 - 22	75.3	<0.01	P	Nil
768		22 - 24	78.2	<0.01	P	
769		24 - 26	88.2	0.07	P	
770*		26 - 28	93.5	5.0	3.0	1.0
771*		28 - 30	130.5	2.00	0.9	0.5
814772		30 - 32	29.9	2.11	P	
773		32 - 34	65.9	0.81	P	
774		34 - 36	93.1	0.19	-	
775	GNP 70	0 - 2	73.5	0.02	P	
776		2 - 4	108.1	<0.01	P	
814777		4 - 6	110.9	<0.01	P	
778		6 - 8	57.7	<0.01	P	
779		8 - 10	39.1	0.01	P	
780		10 - 12	87.6	<0.01	P	
781		12 - 14	52.0	0.01	P	
814782		14 - 16	53.1	0.02	P	
783		16 - 18	56.4	0.01	P	
784		18 - 20	55.3	<0.01	P	
785		20 - 22	93.1	0.48	P	
786		22 - 23	102.1	3.4	P	
814787		23 - 23.5	82.7	1.9	P	
788		23.5 - 24	77.1	5.1	P	Nil
789		24 - 24.5	88.9	4.4	P	0.16
790		24.5 - 25	71.2	4.8	P	Nil
791		25 - 25.5	71.1	2.2	P	0.07
814792		25.5 - 26	103.8	1.7	P	Nil
793		26 - 26.5	103.1	1.7	P	Nil
794		26.5 - 27	123.7	0.87	P	Nil
795*		27 - 27.5	133.7	0.43	0.06	0.14
796		27.5 - 28	88.3	0.40	P	0.03

766023

<u>Reg. No</u>	<u>Description</u>	<u>Mass g</u>	<u>%Sn</u>	<u>%Zr</u>	<u>%TiO₂</u>	<u>Au Mass mg</u>
814797	GNP 70	28 - 28.5	47.1	0.13		Nil
798*		28.5 - 29	118.4	0.02	0.05	0.24
799		29 - 31	101.9	0.14		
800*		31 - 33	40.1+	0.61	0.43	0.38
801	GNP 71	0 - 2	116.1	0.01		
814802		2 - 4	55.0	0.01	P	Nil
803		4 - 6	72.7	0.01	P	0.03
804		6 - 8	89.2	<0.01	P	Nil
805		8 - 10	88.8	<0.01	P	
806		10 - 12	63.4	0.01	P	
814807		12 - 14	94.1	0.01	P	
808		14 - 16	109.5	0.01	P	
809		16 - 18	135.6	0.01	P	
810		18 - 20	31.2	0.03	P	
811		20 - 22	70.4	0.01	P	
814812		22 - 24	90.0	0.02	P	
813		24 - 26	71.7	0.04	P	
814		26 - 26.5	87.4	4.3	P	
815*		26.5 - 27	127.3	2.3	0.51	0.26
816		27 - 27.5	85.5	3.9	P	
814817		27.5 - 28	60.6	9.0	P	
818		28 - 28.5	80.7	4.5	P	
819		28.5 - 29	103.4	0.87	P	Nil
820*		29 - 31	24.5+	0.61	0.38	0.06
821*		31 - 33	65.5	0.15	0.29	1.62

+ See previous page.

Analyses by.....

H. K. Wellington
H. K. Wellington

H. K. Wellington for
(H. K. Wellington)
Chief Chemist & Metallurgist

766024



DEPARTMENT OF MINES—TASMANIA

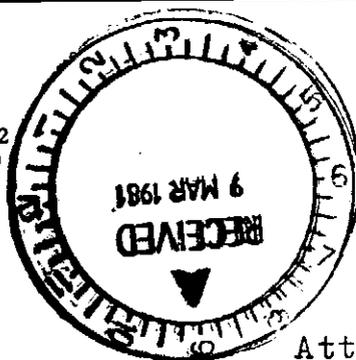
TELEPHONES:

Metallurgical Research	} 44 2431-2 (2 lines)
Laboratory	
Mines Inspection	
Explosives & Inflammable Liquids	

LAUNCESTON OFFICES
287 WELLINGTON STREET
SOUTH LAUNCESTON 7250

6th March 1981

Santos Ltd,
183 Melbourne Street,
North Adelaide
SOUTH AUSTRALIA 5006

Attent. Mr. Simon Lee.Reg. Nos 810948-61

Dear Sir,

Please find below results of samples submitted to this laboratory on the 12th Feb'81 and stated to be from Gt. Northern Plains.

<u>Reg. Nos.</u>	<u>Description</u>	<u>Mass g</u>	<u>%Sn</u>
810948	GNP 11 0 - 2	7.0	0.77
949	2 - 4	7.1	1.6
950	4 - 6	7.0	1.0
951	6 - 8	5.6	0.36
952	GNP 10 0 - 2	15.4	0.42
953	2 - 4	46.7	0.45
954	4 - 6	6.7	0.88
955	6 - 8	5.6	0.3
956	8 - 10	5.0	0.93
957	10 - 12	32.3	1.2
958	12 - 14	41.2	3.1
959	14 - 16	52.4	3.9
960	16 - 18	22.0	5.7
961	18 - 20	23.3	5.5

Yours faithfully,

H. K. Wellington
(H. K. Wellington)
Chief Chemist & Metallurgist.

Analyses by *J. H. Rathbone*Fee \$70.00



DEPARTMENT OF MINES—TASMANIA

766026

TELEPHONES:

Metallurgical Research	} 44 2431-2 (2 lines)
Laboratory	
Mines Inspection	
Explosives & Inflammable Liquids	

LAUNCESTON OFFICES
287 WELLINGTON STREET
SOUTH LAUNCESTON 7250

25th March 1981

Santos Ltd,
183 Melbourne Street,
North Adelaide,
SOUTH AUSTRALIA 5006

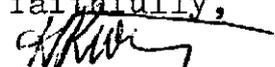
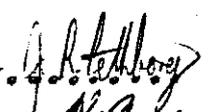
Attent. Mr. Simon Lee.Reg. Nos 811173-192

Dear Sir,

Please find below results of samples submitted to this laboratory on the 27th Feb'81 and stated to be from Gt. Northern Plains. Holes 9 & 12.

<u>Reg. Nos</u>	<u>Description</u>	<u>Mass g</u>	<u>% Sn</u>
811173	G.N.P. Hole 9 0 - 2	3.1	2.4
174	2 - 4	9.9	1.5
175	4 - 6	2.2	0.67
176	6 - 8	3.7	0.58
177	8 - 10	3.7	.43
178	10 - 12	4.2	1.1
179	12 - 14	2.8	0.30
180	14 - 16	2.1	3.1
181	16 - 18	2.5	18.1
182	Hole 12 0 - 2	7.4	1.0
183	2 - 4	7.5	1.0
184	4 - 6	13.1	0.60
185	6 - 8	14.8	0.45
186	8 - 10	16.1	0.65
187	10 - 12	18.3	0.85
188	12 - 14	9.9	2.3
189	14 - 16	6.2	5.9
190	16 - 18	7.4	3.0
191	18 - 20	6.3	0.87
192	20 - 22	8.0	0.23

Yours faithfully,


(H. K. Wellington)
Chief Chemist & Metallurgist.Analyses by. Fee \$100.00 

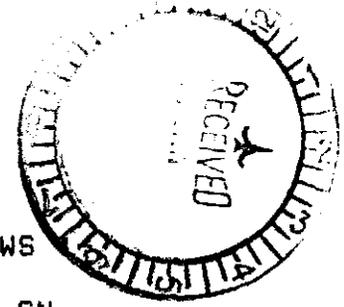
766027

*
SANTOS AA82716
PIONEER AA58560

21/1/01

ATTN DAVID CLARKE

ASSAY RESULTS ON GREAT NORTHERN PLAINS 78 AS FOLLOWS



DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
2	4	119.9	0.10
4	5	99.4	0.09
5	5.50	99.7	0.13
5.50	6	102.2	0.12
6	6.50	100.2	0.68
6.50	7	92.6	1.46
7	7.50	87.2	1.11
7.50	8	106.7	0.31
8	8.50	95.9	1.86
8.50	9	87.0	1.79
9	9.50	111.8	1.20
9.50	10	101.3	0.98
10	10.50	82.5	0.84
10.50	11	97.0	0.29
11	11.50	109.4	0.13
11.50	12	97.2	2.73
12	12.50	83.0	11.61
12.50	13	86.3	2.35
13	13.50	87.5	1.09
13.50	14	99.0	0.30
14	14.50	111.9	0.19
14.50	15	84.6	0.05
15	16	82.4	0.06
16	17	100.8	0.06
17	18	115.4	0.04

25 SAMPLES IN ALL.
WILL DESPATCH AN INVOICE AT THE END OF EACH MONTH.

REGARDS.... GAYLE TUCKER.

SENT 3:23 PM

*
SANTOS AA82716
PIONEER AA58560

TELETYPE UNIT

ELEX MESSAGE TELEX MESSAGE ILEX M

760028

X MESSAGE TELEX MESSAGE TELEX MESSAGE

*
SANTOS AA82716
PIONEER AA58560

5/04/04

82 FEB 5 14: 11

ATTN DAVID CLARKE

ASSAY RESULTS ON GREAT NORTHERN PLAINS 79 AS FOLLOWS :-

ASSAY DATE 21/1/82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
0	4	81.4	0.04
4	4.50	95.1	0.02
4.50	5	101.4	0.03
5	5.50	94.6	0.04
5.50	6	82.1	0.04
6	6.50	116.7	0.04
6.50	7	83.6	0.03
7	7.50	124.7	0.03
7.50	8	91.9	0.03
8	8.50	96.3	0.02
8.50	9	133.2	0.02
9	9.50	110.9	0.02
9.50	10	103.6	0.02
10	10.50	136.6	0.03
10.50	11	113.1	0.02
11	11.50	99.6	0.04
11.50	12	117.5	0.06
12	13	111.5	0.04
13	13.50	78.6	
		92.4	0.03
13.50	14	81.8	0.03
14	14.50	74.9	
		92.4	0.02
14.50	15	89.6	0.04
15	15.50	104.2	0.18
15.50	16	91.1	0.15
16	16.50	101.5	0.04

25 SAMPLES IN ALL

ASSAY RESULTS ON GREAT NORTHERN PLAINS 80 AS FOLLOWS :-

ASSAY DATE 25/1/82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
0	1	88.7	0.01
1	2	84.2	0.02
2	3	80.0	0.04
3	4	100.8	0.02
4	4.50	120.9	0.02
4.50	5	98.5	0.02
5	5.50	105.6	0.02
5.50	6	81.9	0.03
6	7	120.0	0.02
7	7.50	116.0	0.02
7.50	8	90.4	0.03
8	8.50	96.5	0.04

TELEX MESSAGE TELETYPE UNIT

TELEX MESSAGE TELETYPE UNIT

766029

5.50	5.50	105.6	0.02
6	6	81.9	0.03
7	7	120.0	0.02
7.50	7.50	116.0	0.02
8	8	90.4	0.03
8.50	8.50	96.5	0.04
9	9	92.2	0.03
9.50	9.50	100.9	0.03
10	10	90.0	0.03
10.50	10.50	98.3	0.05
11	11	95.3	0.07
11.50	11.50	92.5	0.07
12	12	90.2	0.09
12.50	12.50	86.6	0.07
13	13	86.7	2.79
13.50	13.50	87.7	3.70
14	14	87.2	5.52
14.50	14.50	86.2	5.30
15	15	86.8	2.14

25 SAMPLES IN ALL

ASSAY RESULTS ON GREAT NORTHERN PLAINS 81 AS FOLLOWS :-

ASSAY DATE 29/1/82

DRILLING METREAGE FROM	TO	WEIGHT (G)	% SN
3	4	84.5	0.02
4	4.50	88.7	0.03
4.50	5	82.6	0.02
5	5.50	84.0	0.02
5.50	6	87.7	0.02
6	7	91.8	0.03
7	7.50	101.6	0.02
7.50	8	85.8	0.02
8	8.50	98.9	0.03
8.50	9	85.9	0.02
9	9.50	91.2	0.02
9.50	10	92.7	0.04
10	10.50	108.3	0.03
10.50	11	94.9	0.02
11	11.50	133.2	0.03
11.50	12	98.2	0.02
12	12.50	99.9	0.02
12.50	13	112.4	0.03
13	13.50	93.7	0.03
13.50	14	103.0	0.04
14	14.50	86.9	0.06
14.50	15	86.5	0.90
15	15.50	91.6	0.82
15.50	16	99.9	0.71
16	16.50	95.0	1.90

25 SAMPLES IN ALL

REGARDS....G TUCKER.
SENT 2:40 PM

SANTOS AAB2716
PIONEER AA5856D

SANTOS AAB2716
PIONEER AA58560

700030

5/04/05

82 FEB 5 15: 08

ATTN DAVID CLARKE

FURTHER ASSAY RESULTS ON GREAT NORTHERN PLAINS 79 AS FOLLOWS :-

ASSAY DATE 22/1/82

DRILLING METREAGE FROM	TO	WEIGHT (G)	% SN
16.50	17	105.7	0.04
17	18	89.5	0.07
18	18.50	96.8	0.05
18.50	19	83.7	0.05
19	20	108.2	0.03
20	21	145.4	0.02
21	22	90.8	0.03

7 SAMPLES ABOVE, 32 SAMPLES IN ALL

FURTHER ASSAY RESULTS ON GREAT NORTHERN PLAINS 80 AS FOLLOWS :-

ASSAY DATE 26/1/82

DRILLING METREAGE FROM	TO	WEIGHT (G)	% SN
15	15.50	85.0	0.98
15.50	16	106.4	1.10
16	16.50	104.5	3.07
16.50	17	96.1	1.63
17	17.50	88.6	3.54
17.50	18	86.5	1.96
18	18.50	93.5	0.74
18.50	19	89.7	0.16
20	21	117.1	0.03
21	22	94.6	0.07
22	22.20	114.4	0.08

11 SAMPLES ABOVE, 36 SAMPLES IN ALL

FURTHER ASSAY RESULTS ON GREAT NORTHERN PLAINS 81 AS FOLLOWS :-

ASSAY DATE 29/1/82

DRILLING METREAGE FROM	TO	WEIGHT (G)	% SN
16.50	17	101.4	1.61
17	17.50	91.9	1.46
17.50	18	96.4	1.25
18	18.50	108.5	0.15
18.50	19.50	114.5	0.04
19.50	20	119.2	0.03

6 SAMPLES ABOVE, 31 SAMPLES IN ALL

REGARDS.... G TUCKER.
SENT 3:24 PM

*
SANTOS AAB2716
PIONEER AA58560

20.50 21
21 21.30

85.1
90.6

5.98
1.48

34 SAMPLES IN ALL

766032

ASSAY RESULTS ON GREAT NORTHERN PLAINS 83 AS FOLLOWS :-

ASSAY DATE 5-8/2/82

DRILLING METREAGE FROM	TO	WEIGHT (G)	% SN
2	4	87.5	0.07
4	4.50	88.2	0.02
4.50	5	97.3	0.03
5	5.50	87.6	0.02
5.50	5	112.7	0.02
ABOVE METREAGE TO SHOULD READ 6			
6	7	106.4	0.04
7	7.50	94.9	0.04
7.50	8	109.0	0.04
8	8.50	106.9	0.05
8.50	9	96.2	0.05
9	10	103.1	0.03
10	10.50	91.3	0.05
10.50	11	92.8	0.05
11	11.50	124.5	0.04
11.50	12	104.3	0.03
12	12.50	105.1	0.03
12.50	13	97.5	0.04
13	13.50	135.9	0.03
13.50	14	147.3	0.04
14	14.50	110.5	0.08
14.50	15	113.4	0.66
15	15.50	91.0	2.26
15.50	16	94.4	2.00
16	16.50	89.1	1.25
16.50	17	102.4	3.29
17	17.50	114.3	2.94
17.50	18	83.6	2.46
18	18.50	90.0	1.75
18.50	19	92.5	3.04
19	19.50	101.6	1.32
19.50	20	126.8	1.81
20	20.50	83.2	1.31
20.50	21	86.3	0.79
21	21.50	113.5	0.21
21.50	22	99.5	0.16
22	22.50	114.5	0.05
22.50	23	95.2	0.02
23	24	122.2	0.02
24	25	106.8	0.02

39 SAMPLES IN ALL

REGARDS....G TUCKER.
11.50AM*
SANTOS AAB2716
PIONEER AA58560

TELEX MESSAGE TELETYPE MESSAGE

TELEX MESSAGE TELETYPE MESSAGE

766033

SANTOS AAB2716
 PIONEER AA5856=

17/2/01

82 FEB 17 14:44

ATTN DAVID CLARKE

ASSAY RESULTS ON GREAT NORTHERN PLAINS 84 AS FOLLOWS :-

ASSAY DATE 9/2/82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
2	3	100.3	0.03
3	4	112.7	0.03
4	5	119.6	0.05
5	5.50	114.1	0.03
5.50	6	115.8	0.03
6	6.50	102.4	0.02
6.50	7.50	86.5	0.03
7.50	8	109.5	0.04
8	8.50	99.3	0.02
8.50	9	104.8	0.02
9	9.50	112.1	0.02
9.50	10	99.6	0.03
10	10.50	107.4	0.03
10.50	11	89.9	0.03
11	11.50	115.0	0.02
11.50	12.50	88.7	0.06
12.50	13	110.2	2.36
13	13.50	94.3	1.70
13.50	14	122.5	0.33
14	14.50	123.6	0.26
14.50	15.50	116.5	1.60
15.50	16	117.5	4.38
16	16.50	85.5	5.26
16.50	17	95.9	2.19
17	17.50	111.8	1.86
17.50	18.50	85.0	5.11
18.50	19	102.6	1.31
19	19.50	134.3	0.26
19.50	20	118.6	0.21
SAMPLE MISSING			
21	22	93.4	0.14

30 SAMPLES IN ALL

TELEX MESSAGE TELEX MESSAGE

ASSAY DATE 9/2/82

DRILLING METREAGE
FROM TO

WEIGHT (G)

% SN

766034

DRILLING METREAGE FROM	DRILLING METREAGE TO	WEIGHT (G)	% SN
0	2	101.9	0.04
2	3	114.1	0.03
3	4	122.9	0.07
4	4.50	81.6	0.05
4.50	5	88.8	0.05
5	5.50	123.7	0.05
5.50	6.50	81.3	0.04
6.50	7	87.6	0.07
7	7.50	82.2	0.06
7.50	8	91.9	0.03
8	8.50	81.3	0.04
8.50	9.50	99.2	0.03
9.50	10	98.1	0.03
10	10.50	94.3	0.02
10.50	11	86.7	0.02
11	11.50	101.1	0.02
11.50	12	111.9	BLD
12	12.50	98.1	0.01
12.50	13	90.9	0.03
13	13.50	100.0	0.01
13.50	14	106.2	0.13
14	14.50	83.8	0.24
14.50	15	109.3	1.14
15	15.50	102.2	1.59
15.50	16	98.2	0.95
16	16.50	88.5	1.84
16.50	17	83.7	7.33
17	17.50	87.5	3.25
17.50	18	84.7	1.89
18	18.50	87.6	3.47
18.50	19	95.8	5.62
19	19.50	106.6	1.28
19.50	20	102.4	0.84
20	21	110.0	0.17
21	22	101.8	0.79

78828

35 SAMPLES IN ALL

ELEX MESSAGE TELEX MESSAGE

ASSAY RESULTS ON GREAT NORTHERN PLAINS 86 AS FOLLOWS :-

ASSAY DATE 12/2/82

766035

DRILLING METREAGE FROM	TO	WEIGHT (G)	% SN
0	1	97.1	0.90
1	2	97.7	0.09
2	2.50	104.4	0.04
2.50	3.50		
	3.50	95.2	0.04
3.50	4	127.0	0.03
4	4.50	92.3	0.01
4.50	5	103.7	0.04
5	5.50	94.3	0.04
5.50	6	97.9	0.11
6	7	119.4	0.94
7	7.50	87.3	0.69
7.50	8	110.0	2.39
8	8.50	122.7	3.89
8.50	9	112.6	1.37
9	9.50	101.6	0.76
9.50	10.50	110.0	0.08

16 SAMPLES IN ALL

REGARDS.....G TUCKER

SENT 3:09 PM

*
SANTOS AA82716

MOM PSE

IN ASSAY DATE 9/2

DOWN TO 7.50 8.50 81.3 0.04 OK
BUT MUTILATED BETWEEN THERE AND 9.50 99.2 0-EEE 0.03
CAN U ADVISE NOW PSE

?
MOM PLSE

7.50	TO 8	91.9	0.03
8	8.50	81.3	0.04
8.50	9.50	99.2	0.03

IS THAT ALL YOU NEED?
CLD U PUT NEXT LINE ALSO THAT SHLD CLEAR IT UP?

9.50	10	98.1	0.03
------	----	------	------

OK
FINE TKS 4 YR HELP OK NOW BI BI

BYE
**
SANTOS AA82716ER AA58560
PIONEER AA58560

TELETYPE MESSAGE TELETYPE MESSAGE TELETYPE MESSAGE

766036

5 MAR

SANTOS AA82716
PIONEER AA58560

4/2/03

ATTN DAVID CLARKE

ASSAY RESULTS ON GREAT NORTHERN PLAINS 87 AS FOLLOWS :-

ASSAY DATE 15/2/82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
2	2.50	113.7	0.04
2.50	3	117.1	0.03
3	3.50	123.9	0.03
3.50	4	92.8	0.04
4	4.50	104.8	0.04
4.50	5	122.4	0.03
5	6	145.1	0.04
6	6.50	86.1	0.03
6.50	7	85.1	0.03
7	7.50	85.6	0.02
7.50	8	95.7	0.03
8	8.50	84.0	0.03
8.50	9.50	92.5	0.02
9.50	10	87.4	0.03
SAMPLE MISSING			
10.50	11	81.3	0.04
11	11.50	88.3	0.03
11.50	12.50	89.9	0.03
18.50	19	119.8	3.30
19.50	20	113.9	0.30

19 SAMPLES IN ALL

WORLDWIDE TELETYPE SERVICE

TELEX MESSAGE TELEX MESSAGE

SAGE TELEX MESSAGE

ASSAY RESULTS ON GREAT NORTHERN PLAINS 88 AS FOLLOWS :-

766037

ASSAY DATE 15/2/82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
4	5	93.7	0.05
5	6	85.6	0.05
6	7	87.1	0.04
7	8	99.3	0.05
8	9	93.7	0.06
9	10	94.0	0.05
10	10.50	86.2	0.03
10.50	11	109.9	0.02
11	11.50	98.1	0.02
11.50	12	119.0	0.03
12	12.50	99.8	0.01
12.50	13	85.7	0.02
13	13.50	88.2	0.03
13.50	14	103.3	0.04
14	14.50	131.8	0.03
14.50	15	110.0	0.03
15	15.50	111.2	0.31
15.50	16	103.1	1.63
16	16.50	120.8	1.67
16.50	17	94.9	1.21
17	17.50	112.3	0.68
17.50	18	105.9	0.91
18	18.50	98.5	3.15
18.50	19	88.7	2.82
19	19.50	103.4	2.27
19.50	20	104.7	1.87
20	20.50	109.5	1.05
20.50	21	123.5	0.20
21	21.50	84.0	0.11
21.50	22		0.05

30 SAMPLES IN ALL

ASSAY RESULTS ON GREAT NORTHERN PLAINS 89 AS FOLLOWS :-

ASSAY DATE 17/2/82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
14	15	115.8	0.06
15	15.50	120.7	0.05
15.50	16	105.6	0.03
16	16.50	124.9	0.06
16.50	17	93.3	0.66
17	17.50	104.9	0.23
17.50	18	112.3	0.25
18	18.50	89.8	0.77
18.50	19	105.2	0.82
19	19.50	92.5	0.92
19.50	20	99.3	0.17
20	20.50	102.3	0.08

12 SAMPLES IN ALL

ASSAY RESULTS ON GREAT NORTHERN PLAINS 90 AS FOLLOWS :-

ASSAY DATE 23/2/82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
15	15.50	136.5	0.64
15.50	16	136.1	0.66
16	16.50	152.9	0.69
16.50	17	137.5	2.13
17	17.50	117.1	2.89
17.50	18	99.8	7.51
18	18.50	104.7	7.00
18.50	19	114.1	7.27
19	19.50	101.4	2.81
19.50	20	134.5	1.00
20	21	114.8	3.50

11 SAMPLES IN ALL

TELEX MESSAGE -

MESSAGE TELETYPE

ASSAY RESULTS ON GREAT NORTHERN PLAINS 91 AS FOLLOWS :- 760009

ASSAY DATE 25/2/82

DRILLING METREAGE FROM	TO	WEIGHT (G)	% SN
13.50	14	113.2	0.13
14	14.50	119.0	0.28
14.50	15	119.2	0.80
15	15.50	101.8	2.17
15.50	16	133.2	3.19
16	16.50	104.5	2.67
16.50	17	110.2	1.36
17	17.50	120.8	1.51
17.50	18	124.1	0.67
18	19	119.3	0.10

10 SAMPLES IN ALL

ASSAY RESULTS ON GREAT NORTHERN PLAINS 110 AS FOLLOWS :-

ASSAY DATE 19/2/82

DRILLING METREAGE FROM	TO	WEIGHT (G)	% SN
.50	1		
1	2	83.5	0.02
2	3	122.7	0.02
3	4	113.5	0.02
4	5	124.7	0.02
5	6	99.7	0.05
6	6.50	120.7	0.02
6.50	7	125.2	0.02
7	7.50	139.9	0.01
7.50	8	100.0	0.02
8	8.50	117.3	0.02
8.50	9	101.2	0.02
9	9.50	108.1	0.02
9.50	10	118.9	0.02
10	10.50	111.1	0.02
10.50	11	113.9	0.03
11	11.50	121.2	0.02
#			
11.50	12	123.8	0.02
12	12.50	113.4	0.02
12.50	13	122.2	0.02
13	13.50	124.8	0.01
13.50	14	114.5	0.04
14	14.50	108.6	0.05
14.50	15	134.3	0.34
15	15.50	109.5	1.54
15.50	16	81.3	3.39
16	16.50	109.7	0.32
16.50	17	120.2	0.12
17	17.50	106.2	0.12
17.50	18	109.3	0.11
18	18.50	113.2	0.06
18.50	19	105.5	0.04
19	19.50	159.1	BLD
19.50	20	190.2	"
20	20.50	263.0	"
20.50	21	295.1	"
21	21.30	219.9	"

TELEX MESSAGE TELEX MESSAGE TELEX M

ATTN DAVID CLARKE

766010

ASSAY RESULTS ON GREAT NORTHERN PLAINS ARE AS FOLLOWS:

WILL START AGAIN

15 MAR 1982

15/3/01

ATTN DAVID CLARKE

ASSAY RESULTS ON GREAT NORTHERN PLAINS ARE AS FOLLOWS:-

ASSAY DATE 15/2/82

SAMPLE NO.	FULL WEIGHT G.	SPLIT WEIGHT G.	% SN ASSAY
1	363.0	91.3	2.24
2	1539.7	96.2	0.15
3	129.9		0.29
4	1676.5	102.6	0.04
5	1299.4	159.9	0.07
6	5861.3	84.6	0.03
7	2325.5	141.7	0.04
8	1317.7	162.8	0.02
9	791.7	97.9	2.52
10	2089.4	126.2	0.04
11	227.5		0.05
12	360.8	99.1	3.52
13	1937.8	126.9	0.06
14	376.7	96.4	0.32
15	672.6	86.6	0.03
16	3006.8	85.8	0.02
17	459.9	116.7	0.03
18	1740.1	115.0	0.02
	FULL WEIGHT SAMPLE G.	PANNED WEIGHT CONCENTRATE G.	% SN
19	3207.9	94.5	0.02
20	1861.7	87.1	0.26
21	1398.4	101.0	0.71
22	889.1	100.6	2.50
23	222.1	91.1	0.03
24	214.3	94.1	0.04
25	1019.2	100.6	3.60
26	191.9	90.0	0.03
27	203.3	91.5	0.01
28	519.8	94.9	11.80
29	199.6	82.0	0.02
30	203.1	91.1	0.03

30 SAMPLES IN ALL.

TELEX MESSAGE TELE MESSAGE TELE

ASSAY RESULTS ON ~~GR~~ GREAT NORTHERN PLAINS 92 AS FOLLOWS :-

ASSAY DATE 2/3/82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
14	14.50	123.9	0.11
14.5	15	106.9	0.65
15	15.5	110.0	0.24
15.5	16	100.6	0.28
16	16.5	112.5	0.24
16.5	17	99.5	0.94
17	17.5	105.8	4.86
17.5	18	113.7	6.49
18	18.5	144.4	2.04
18.5	19	98.1	0.89
19	20	95.7	0.75

11 SAMPLES IN ALL.

ASSAY RESULTS ON GREAT NORTHERN PLAINS 93 AS FOLLOWS :-

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
2	3	88.8	0.03
3	4	98.5	0.03
4	5	103.9	0.03
5	6	98.1	0.03
6	7	89.9	0.06
7	8	107.2	0.05
8	9	110.9	0.04
9	10	80.8	0.07
10	11	90.0	0.05
11	12	112.6	0.05
12	13	99.6	0.13
13	14	93.5	0.10
14	15	82.9	0.14
15	16	84.8	1.52
16	16.5	92.3	1.80
16.5	17	121.4	2.21
17	17.5	82.8	2.55
17.5	18	106.2	0.91
18	19	85.9	1.01

19 SAMPLES IN ALL.

TELEX MESSAGE

TELEX MESSAGE

ASSAY RESULTS ON GREAT NORTHERN PLAINS 112 AS FOLLOWS :-

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
0	1	140.5	0.05
1	2	132.5	0.06
2	3	115.0	0.06
3	4	116.2	0.04
4	5	130.0	0.03
5	5.5	130.7	0.03
5.5	6	122.8	0.03
6	6.5	137.6	0.03
6.5	7	127.9	0.03
7	7.5	139.0	0.02
7.5	8	137.1	0.02
8	8.5	148.3	0.02
8.5	9	133.7	0.02
9	9.5	108.8	0.03
9.5	10	135.2	0.02
10	10.5	142.7	0.01
10.5	11	120.9	0.03
11	11.5	111.3	0.02
11.5	12	130.2	0.02
12	12.5	140.2	1.91
12.5	13	115.5	4.28
13	14	124.0	3.38
14	14.5	135.8	3.35
14.5	15	130.2	2.73
15	15.5	-	-
15.5	16	130.3	0.87
16	16.5	127.1	2.47
16.5	17	123.8	6.25
17	17.5	115.7	2.19
17.5	18	113.4	0.80
18	18.5	121.1	0.14
18.5	19	134.8	0.08
19	19.5	107.4	0.26
19.5	20	130.1	0.28
20	20.5	97.7	0.22
20.5	21	110.5	0.03
21	21.5	115.9	0.02
21.5	22	126.0	0.02
22	22.5	122.1	0.02
22.5	22.7	121.5	0.09

40 SAMPLES IN ALL.

TELEX MESSAGE
TELEX MESSAGE

ASSAM RESULTS ON GREAT NORTHERN PLAINS 111 AS FOLLOWS :- 766043

DRILLING METREAGE FROM	TO	WEIGHT (G)	% SN
0	1	110.0	0.03
1	2	117.3	0.01
2	3	141.2	0.02
3	4	95.6	0.02
4	5	115.3	0.02
5	5.5	116.8	0.02
5.5	6	142.5	0.02
6	6.5	105.1	0.02
6.5	7	162.6	0.02
7	7.5	114.5	0.03
7.5	8	114.2	0.02
8	8.5	113.7	0.04
8.5	9	125.4	0.03
9	9.5	126.8	0.03
9.5	10	109.0	0.03
10	10.5	100.3	0.03
10.5	11	119.8	0.03
11	11.5	143.5	0.02
11.5	12	121.5	0.01
12	12.5	124.7	0.02
12.5	13	145.1	0.02
13	13.5	110.8	0.02
13.5	14	136.4	0.02
14	14.5	123.1	0.03
14.5	15	101.5	0.04
15	15.5	109.9	0.04
15.5	16	130.0	0.08
16	16.5	121.3	0.07
16.5	17	156.2	0.80
17	17.5	116.5	1.47
17.5	18	135.9	0.73
18	18.5	119.4	0.16
18.5	18.75	166.1	0.08
18.75	19.25	135.4	0.12
19.25	19.75	231.1	0.01
19.75	20.25	190.0	BLD
20.25	20.75	249.9	BLD

37 SAMPLES IN ALL.

REGARDS... TRACEY RATTRAY
AMDEX.

2.24PM*
SANTOS AA82716
PIONEER AA58560

TELEX MESSAGE

TELEX MESSAGE

766044

*
SANTOS AA82716
PIONEER AA58560

25/3/01

ATTN DAVID CLARKE

ASSAY RESULTS FOR GNP 94 AS FOLLOWS :-

ASSAY DATE 10/3/82

25 MAR 82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
0	2	126.9	0.05
2	3	122.2	0.04
3	4	154.2	0.02
4	5	155.1	0.02
5	6	155.2	0.03
6	7	127.7	0.03
7	8	126.1	0.03
8	9	145.4	0.03
9	10	122.4	0.05
10	11	134.2	0.04
11	12	140.0	0.04
12	13	146.5	0.22
13	14	122.6	2.22
14	14.50	151.0	1.73
14.50	15	125.0	0.79
15	15.50	98.9	0.97
15.50	16	106.2	0.17
16	16.50	89.3	0.69
16.50	17	85.4	0.92
17	17.50	93.3	0.25
17.50	18	99.8	1.37
18	18.50	112.5	0.73
18.50	19	107.9	0.80
19	19.50	109.9	0.33

24 SAMPLES IN ALL

TELEX MESSAGE

SAGE TELEX MESSAGE TELEX MES

760045

ASSAY RESULTS FOR GNP 114 AS FOLLOWS :-

ASSAY DATE 11/3/82

DRILLING METREAGE		WEIGHT (G)	% SN
FROM	TO		
1.50	2.50	100.3	0.03
2.50	3.50	84.3	0.04
3.50	4.50	83.3	0.09
4.50	5.50	88.2	0.07
5.50	6	103.3	0.06
6	6.50	120.0	0.03
6.50	7	80.8	0.04
7	7.50	92.9	0.03
7.50	8	99.9	0.04
8	8.50	94.0	0.03
8.50	9	123.4	0.03
9	10	120.8	0.04
10	10.50	105.1	0.03
10.50	11	122.6	0.03
11	11.50	121.9	0.02
11.50	12	109.3	0.03
12	12.50	107.3	0.03
12.50	13	122.0	0.05
13	13.50	117.8	0.04
13.50	14	105.0	0.05
14	14.50	95.3	0.15
14.50	15	112.2	0.17
15	15.50	133.4	0.13
15.50	16	95.6	0.64
16	16.50	101.2	0.25
16.50	17	135.2	1.37
17	17.50	145.1	1.31
17.50	18	131.9	3.01
18	18.50	110.0	4.59
18.50	19	108.1	1.25
19	19.50	107.4	1.09
19.50	20	111.8	1.48
20	20.50	107.5	0.67
20.50	21	129.2	0.06
21	21.50	132.4	0.06
21.50	22	147.7	0.02
22	22.50	146.9	0.01

25MA

37 SAMPLES IN ALL

REGARDS.....G TUCKER.

SENT 4:33 PM

*
SANTOS AA82716
PIONEER AA58560

TELEX MESSAGE TELETYPE

TELEX MESSAGE TELETYPE

766046

K MESSAGE TELEX MESSAGE TELEX M

*
SANTOS AAB2716
PIONEER AA58560

29/3/02

ATTN DAVID CLARKE

ASSAY RESULTS FOR GNP 95 AS FOLLOWS:-

29 MAR 2 27

DRILLING METREAGE FROM	TO	WEIGHT	SN (%)
0	2	99.7	0.04
2	3	121.6	0.02
3	4	105.7	0.01
4	5	125.9	0.03
5	6	118.6	0.03
6	7	119.5	0.05
7	8	135.6	0.04
8	9	131.4	0.05
9	10	92.3	0.05
10	11	85.7	0.11
11	12	119.7	0.04
12	13	89.6	0.07
13	14	135.4	0.98
14	14.5	85.2	1.97
14.5	15	85.6	1.48
15	15.5	97.1	1.20
15.5	16	118.8	0.19
16	16.5	85.0	0.33
16.5	17	93.8	0.22
17	17.5	100.3	0.25
17.5	18	89.5	1.71
18	18.5	100.0	0.68
18.5	19.5	114.2	0.33
19.5	20.5	109.5	0.28

24 SAMPLES IN ALL.

REGARDS.. T RATTRAY
AMDEX.

1.40PM*
SANTOS AAB2716
PIONEER AA58560

PIONEER AA58560

29 MAR 12 03

*
SANTOS AA82716
PIONEER AA58560
WILL COMMENCE ASSAY RESULT TELEX AGAIN

29/3/01

ATTN DAVID CLARKE

ASSAY RESULTS FOR GNP 115 AS FOLLOWS:-

DRILLING METREAGE FROM	TO	WEIGHT	%SN
0	1	90.0	0.03
1	2	88.2	0.03
2	3	122.9	0.02
3	4	132.4	0.03
4	5	97.9	0.03
5	6	107.9	0.03
6	6.5	132.7	0.02
6.5	7	99.9	0.03
7	7.5	134.5	0.04
7.5	8	120.0	0.03
8	8.5	105.7	0.03
8.5	9	133.8	0.03
9	9.5	108.3	0.03
9.5	10	110.3	0.02
10	10.5	97.3	0.03
10.5	11	132.8	0.02
11	11.5	115.2	0.02
11.5	12	122.8	0.14
12	12.5	93.6	0.02
12.5	13	149.9	0.04
13	13.5	124.6	0.17
13.5	14	100.4	0.25
14	14.5	100.0	0.66
14.5	15	125.9	1.27
15	15.5	130.2	1.36
15.5	16	111.3	2.77
16	16.5	143.9	3.96
16.5	17	109.8	1.56
17	17.5	94.2	3.91
17.5	18	111.6	6.93
18	18.5	140.4	10.00
18.5	19	120.3	4.09
19	19.5	144.5	2.32
19.5	20	133.7	0.24
20	20.5	141.7	0.11
20.5	21	159.6	0.04
21	21.5	171.1	0.05
21.5	22	119.1	3.23

38 SAMPLES IN ALL.

MESSAGE TELEX MESSAGE TELEX MESSAGE

ASSAY RESULTS FOR GNP 116 AS FOLLOWS --

DRILLING METREAGE FROM	TO	WEIGHT	% SN
0	1	86.2	0.04
1	2	110.0	0.02
2	3	118.3	0.01
3	4	111.2	0.02
4	5	122.6	0.02
5	6	114.8	0.02
6	6.5	130.5	0.03
6.5	7	111.9	0.04
7	7.5	114.7	0.02
7.5	8	116.4	0.03
8	8.5	103.3	0.04
8.5	9	98.2	0.03
9	9.5	98.1	0.03
9.5	10	84.7	0.04
10	10.5	106.8	0.02
10.5	11	112.7	0.01
11	11.5	103.5	0.03
11.5	12	108.2	0.03
12	12.5	103.9	0.03
12.5	13	137.5	0.01
13	13.5	128.2	0.04
13.5	14	119.9	0.05
14	14.5	130.9	0.19
14.5	15	143.1	2.82
15	15.5	117.2	3.26
15.5	16	115.8	3.13
16	16.5	133.0	0.91
16.5	17	110.0	0.92
17	17.5	110.6	0.86
17.5	18	143.7	0.75
18	18.5	132.6	1.38
18.5	19	136.1	0.94
19	19.5	119.2	1.00
19.5	20	106.8	0.28
20	20.5	118.9	0.27
20.5	21	118.4	0.67
21	21.5	122.8	0.06
21.5	22	113.3	0.01
22	22.5	91.1	0.05
22.5	23	110.8	0.04

706048

40 SAMPLES IN ALL.

ASSAY RESULTS FOR MCGREGOR 1. AS FOLLOWS:-

DRILLING METREAGE FROM	TO	WEIGHT	% SN
0	2	130.0	0.13
2	4	101.7	0.25
4	4.5	126.7	0.09
4.5	5	114.4	1.30
5	5.5	90.1	0.06
5.5	6	85.8	0.11
6	7	117.9	1.24
7	8	98.8	3.57

8 SAMPLES IN ALL.

AGE - TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE

TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE

APPENDIX II

CALWELD BULK SAMPLE ASSAY DATA

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0905

State TAS Project Name G.N PLAINS Project No. _____ Sampled by S. MOORE Date 18/2/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	WEIGHT g	% SN ASSAY
	<u>CNP.1</u>	<u>Tin, ilmenite, Blackjack</u>	<u>7.80</u>	<u>8.30</u>	<u>469.6</u>	<u>9.26</u>
		<u>" " " "</u>	<u>8.30</u>	<u>8.50</u>	<u>119.2</u>	<u>6.74</u>
		<u>Small amount Tin, Gold ilmenite, Blackjack</u>	<u>8.50</u>	<u>9</u>	<u>130.0</u>	<u>1.01</u>
		<u>Tin, ilmenite, Blackjack</u>	<u>9</u>	<u>9.80</u>	<u>221.8</u>	<u>8.51</u>
		<u>Large amount Tin, Gold, ilmenite, Blackjack</u>	<u>9.80</u>	<u>10.80</u>	<u>234.5</u>	<u>13.28</u>
		<u>Large amount Tin, Gold, ilmenite, Blackjack</u>	<u>11.50</u>	<u>12.10</u>	<u>429.6</u>	<u>30.31</u>
		<u>" " " "</u>	<u>12.10</u>	<u>12.40</u>	<u>324.5</u>	<u>33.07</u>
		<u>" " " "</u>	<u>12.40</u>	<u>12.80</u>	<u>197.1</u>	<u>18.48</u>
		<u>Small amount Tin, ilmenite, Blackjack</u>	<u>12.80</u>	<u>13.30</u>	<u>86.3</u>	<u>4.32</u>
		<u>" " " "</u>	<u>13.30</u>	<u>13.80</u>	<u>89.3</u>	<u>4.61</u>
		<u>" " " "</u>	<u>13.80</u>	<u>14.30</u>	<u>91.5</u>	<u>1.90</u>
		<u>Tr Tin, ilmenite, Blackjack</u>	<u>14.30</u>	<u>14.70</u>	<u>96.2</u>	<u>2.76</u>
		<u>Small amount Tin, ilmenite, Blackjack</u>	<u>14.70</u>	<u>15.10</u>	<u>141.1</u>	<u>4.15</u>
		<u>Small amount Tin, Gold, ilmenite, Blackjack</u>	<u>15.10</u>	<u>15.40</u>	<u>115.4</u>	<u>3.92</u>
		<u>" " " "</u>	<u>15.40</u>	<u>15.60</u>	<u>105.1</u>	<u>4.45</u>
		<u>Small amount Tin, ilmenite, Blackjack</u>	<u>15.60</u>	<u>15.75</u>	<u>182.7</u>	<u>3.36</u>
		<u>" " " "</u>	<u>15.75</u>	<u>16</u>	<u>175.6</u>	<u>5.62</u>
		<u>" " " "</u>	<u>16</u>	<u>16.70</u>	<u>137.3</u>	<u>3.32</u>
		<u>Tr Tin, Large amount Pyrite</u>	<u>20.40</u>	<u>21</u>	<u>399.0</u>	<u>2.10</u>
		<u>Tin, ilmenite, Pyrite, Blackjack</u>	<u>Tie CLEANOUT SAMPLE</u>		<u>200.4</u>	<u>12.27</u>
		<u>Small amount Tin, Pyrite</u>	<u>2.0</u>	<u>20.40</u>	<u>237.3</u>	<u>3.81</u>
		<u>Large amount Tin, Blackjack</u>	<u>UNKNOWN DEPTH</u>		<u>445.6</u>	<u>23.67</u>

Invoice and 2 copies of results to
Amdex Mining Ltd.
P.O. Box 147,
North Sydney N.S.W. 2060

One copy of results to:
.....
.....
Attention:.....

Remarks

Detection limits
.....
Place analysed..... Date analysed.....
Analyst.....

700050

GENERAL SAMPLE DESCRIPTION

SHEET No 0904

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 18/3/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	WEIGHT g.	% SN ASSAY			
	<u>CNP.1</u>	<u>TAILS SAMPLE OFF JGS.</u>							
		<u>No. 1 of Mineral</u>	<u>7.80</u>	<u>8.30</u>	<u>86.7</u>	<u>0.02</u>			
		<u>To ilmenite</u>	<u>8.50</u>	<u>9</u>	<u>91.0</u>	<u>0.01</u>			
		<u>" "</u>	<u>9</u>	<u>9.80</u>	<u>104.8</u>	<u>0.13</u>			
		<u>" "</u>	<u>9.80</u>	<u>10.80</u>	<u>107.8</u>	<u>0.05</u>			
		<u>To ilmenite</u>	<u>11.50</u>	<u>12.10</u>	<u>95.9</u>	<u>0.05</u>			
		<u>" "</u>	<u>12.10</u>	<u>12.40</u>	<u>111.8</u>	<u>0.08</u>			
		<u>" "</u>	<u>12.40</u>	<u>12.80</u>	<u>100.0</u>	<u>0.05</u>			
		<u>" "</u>	<u>12.80</u>	<u>13.30</u>	<u>105.9</u>	<u>0.02</u>			
		<u>" "</u>	<u>13.30</u>	<u>13.80</u>	<u>94.7</u>	<u>0.02</u>			
		<u>fine to of fine To ilmenite</u>	<u>13.80</u>	<u>14.30</u>	<u>93.1</u>	<u>0.04</u>			
		<u>" " " " "</u>	<u>14.30</u>	<u>14.70</u>	<u>110.1</u>	<u>0.03</u>			
		<u>" " " " "</u>	<u>14.70</u>	<u>15.10</u>	<u>86.4</u>	<u>0.03</u>			
		<u>To ilmenite</u>	<u>15.10</u>	<u>15.40</u>	<u>112.1</u>	<u>0.01</u>			
		<u>" "</u>	<u>15.40</u>	<u>15.60</u>	<u>123.9</u>	<u>0.02</u>			
		<u>" "</u>	<u>15.60</u>	<u>15.75</u>	<u>113.6</u>	<u>0.02</u>			
		<u>" "</u>	<u>15.75</u>	<u>16</u>	<u>126.6</u>	<u>0.01</u>			
		<u>" "</u>	<u>16</u>	<u>16.70</u>	<u>112.5</u>	<u>0.01</u>			
		<u>To Pyrite</u>	<u>20</u>	<u>20.40</u>	<u>108.8</u>	<u>0.03</u>			
		<u>" "</u>	<u>20.40</u>	<u>21</u>	<u>109.5</u>	<u>BHD</u>			
		<u>To ilmenite</u>	<u>UNKNOWN</u>	<u>DEPTH.</u>	<u>130.7</u>	<u>0.02</u>			

Invoice and 2 copies of results to Amdex Mining Ltd. P.O. Box 147, North Sydney N.S.W. 2060

One copy of results to:

Attention: _____

Remarks

Detection limits

Place analysed _____

Date analysed _____

Analyst _____

766051.

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0906

State TAS Project Name G.M.P. RINS Project No. _____ Sampled by S. MOORE Date 29/3/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g	% Assay			
	GDH. 2	Ilmenite	14.10	15.10	128.4	0.21			
		Small amount Tin, Ilmenite	15.10	15.27	97.1	4.08			
		" " " "	15.10	15.27	100.0	Teo	6.46		
		" " " "	15.27	16.27	117.6	3.42			
		" " " "	16.27	16.77	120.6	3.15	1.10		
		Tin Ilmenite	15.10	15.27	98.8	1.00			
		Small amount Tin Ilmenite	16.27	16.77	90.6	3.40			
		Tin Blackrock Ilmenite	16.77	16.87	107.3	6.68			
		" " " "	16.87	17.87	80.6	7.43			
		" " " "	15.10	15.27	109.1	10.58			
		" " " "	16.87	17.87	143.9	16.14			
		Small amount Tin Gold Blackrock Ilmenite	17.87	18.87	115.1	4.39			
		Small amount Tin	17.87	18.87	198.9	6.05			
		" " " "	18.87	19.04	167.8	8.07			
		Tin Ilmenite Gold Quartz	19.04	20.54	145.5	12.56			
		Very fine Tin Quartz	20.54	23.94	119.0	0.79			
		Small amount Tin Ilmenite Pyrite	JIG CLEAN OUT		120.4	8.93			

Invoice and 2 copies of results to
Amdex Mining Ltd.
P.O. Box 147,
North Sydney N.S.W. 2060

One copy of results to:

Attention _____

Remarks

Detection limits

Place analysed _____

Analyst _____

Date analysed _____

766052

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0907

State NSW Project Name GEN. PLAINS Project No. _____ Sampled by S. MOORE Date 27/3/55

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	WEIGHT	GRAVIMETRY			
	<u>G.D.H. 2</u>	<u>THIS SAMPLE OFF TOP.</u>							
		<u>To 10m</u>	<u>14.10</u>	<u>15.10</u>	<u>130.0</u>	<u>0.02</u>			
		<u>" "</u>	<u>15.10</u>	<u>15.27</u>	<u>123.8</u>	<u>0.03</u>			
		<u>" "</u>	<u>15.10</u>	<u>15.27</u>	<u>142.0</u>	<u>0.13</u>	<u>0.03</u>		
		<u>" "</u>	<u>15.27</u>	<u>16.27</u>	<u>130.6</u>	<u>0.02</u>			
		<u>" "</u>	<u>16.27</u>	<u>16.77</u>	<u>132.6</u>	<u>0.02</u>			
		<u>Sample to 10m</u>	<u>15.10</u>	<u>15.27</u>	<u>108.6</u>	<u>0.13</u>			
		<u>To 10m</u>	<u>16.27</u>	<u>16.77</u>	<u>71.5</u>	<u>0.02</u>			
		<u>" "</u>	<u>16.77</u>	<u>16.87</u>	<u>100.0</u>	<u>0.02</u>			
		<u>" "</u>	<u>16.87</u>	<u>17.87</u>	<u>119.1</u>	<u>0.13</u>			
		<u>" "</u>	<u>16.87</u>	<u>17.87</u>	<u>110.0</u>	<u>0.02</u>			
		<u>" "</u>	<u>17.87</u>	<u>18.87</u>	<u>117.5</u>	<u>0.04</u>			
		<u>" "</u>	<u>17.87</u>	<u>19.87</u>	<u>132.2</u>	<u>0.05</u>			
		<u>" "</u>	<u>18.87</u>	<u>19.04</u>	<u>163.5</u>	<u>0.04</u>			
		<u>Sample to 10m</u>	<u>17.00</u>	<u>20.50</u>	<u>113.4</u>	<u>0.01</u>			
		<u>Sample to 10m</u>	<u>20.50</u>	<u>22.00</u>	<u>117.1</u>	<u>0.01</u>			

Invoice and 2 copies of results to
Amdex Mining Ltd.
P.O. Box 147,
North Sydney N.S.W. 2060

One copy of results to: _____
Attention: _____

Remarks

Detection limits
Place analysed: _____ Date analysed: _____
Analyst: _____

766053

APPENDIX III

RESULTS OF SIZING ANALYSIS &
MINERALOGICAL INVESTIGATION



The Australian
Mineral Development
Laboratories

Remington Street, Frewville,
South Australia 5063
Phone Adelaide 79 1662
Telex AA 82520

Please address all
correspondence to
P.O. Box 114 Eastwood
SA 5063
In reply quote:

766055

amdel

24 February 1982

GS 3/520/0

Santos Limited,
Minerals Exploration Department,
39 Grenfell Street,
ADELAIDE, SA 5000.

Attention: Simon Lee/Dave Clarke

REPORT GS 4137/82 - PART II

YOUR REFERENCE: Order No. SDL/H/025
MATERIAL: Panned concentrates
IDENTIFICATION: 790581, 82, 790753, 60
DATE RECEIVED: 8 February 1982
WORK REQUIRED: Mineralogical identification of gangue..

Investigation and Report by: Michael Farrand

Chief - Geological Services Section: Dr Keith J. Henley
Manager, Mineral and Materials Sciences Division: Dr William G. Spencer

for Norton Jackson
Managing Director.

bs/3

Pilot Plant: Osman Place
Thebarton S.A.,
Telephone 43 8053
Branch Laboratories:
Perth W.A.
Telephone 325 7311
Melbourne Vic.
Telephone 645 3093

GANGUE MINERALS IN CASSITERITE CONCENTRATES

1. INTRODCUTION

Ten cassiterite concentrates were received from Santos Limited, Minerals Exploration Department, in four of which the non-cassiterite fraction was to be identified.

2. PROCEDURE

Polished sections were prepared and were examined microscopically in reflected light. Sample and section numbers are as follows:

<u>Sample</u>	<u>Polished Section</u>
790581	30795
790582	30796
790753	30797
790760	30798

A portion of the samples was "tinned" by the reaction between hydrochloric acid and a zinc pot. The grains which were not tinned were identified by examination in refractive index media by transmitted light.

3. RESULTS

Sample: 790581; PS 30795

a) Reflected Light

The non-cassiterite fraction of this sample is not abundant and consists mainly of sulphides rather than oxides.

Minerals present and estimated abundances are:

Pyrite, one grain of which is a framboïd.	
Another grain contains particles of exsolved marcasite	1%
Marcasite	0.5%
A few grains of ilmenite	<0.5%
One grain of (?)bismuthinite containing intergrown (?)bismuth	
Rare silicate grains.	

Tantalite occurs as fine-grained inclusions within some cassiterite grains.

b) Transmitted light.

Non-cassiterite translucent minerals amount to about 1%.

Minerals recognised:

Garnet
Zircon
Epidote
Rutile
?Apatite.

Sample: 790582; PS 30796

a) Reflected Light

Although there is more ilmenite in this sample than in sample 790581, it is still subordinate to the sulphide content.

Minerals present and estimated abundances are:

Marcasite - abundant	1%
Pyrite	0.5%
Ilmenite	<0.5%
Tantalite)	
Pyrite)	
Bornite)	Inclusions in cassiterite
Cubanite)	

b) Transmitted Light

Non-cassiterite translucent minerals amount to about 1%.

Minerals recognised:

Garnet
Epidote
Zircon
Rutile
Apatite
Staurolite

Sample: 790753; PS 30797

a) Reflected Light

Sulphides are again the main opaque minerals, with minor ilmenite.

Minerals present with estimated abundances are:

Marcasite - abundant	1%
Pyrite - including many infilled framboids	1%
Ilmenite	0.5%
Tantalite)	
Chalcopyrite)	inclusions in cassiterite

b) Transmitted Light

Non-cassiterite translucent minerals amount to <1%.

Minerals recognised:

Rutile
Epidote
Zircon.

Sample: 790760; PS 30798

a) Reflected Light

Ilmenite is more abundant in this sample than in the other samples but is still subordinate to pyrite and marcasite.

Minerals present and estimated abundances are:

Pyrite - mainly colloidal forms	1%
Marcasite	1%
Ilmenite	1%
Tantalite)	
Bornite)	inclusions in cassiterite.

766058

b) Transmitted Light

Non-cassiterite translucent minerals amount to about 1%.

Minerals recognised:

Rutile
Epidote
Zircon
Sphene.



766059

The Australian
Mineral Development
Laboratories

amdel

Flinders Street, Frewville,
South Australia 5063
Phone Adelaide 79 1662
Telex AA 82520

Please address all
correspondence to
P.O. Box 114 Eastwood
SA 5063
In reply quote:

16 February 1982

GS 3/520/0

Santos Limited,
Minerals Exploration Department,
39 Grenfell Street,
ADELAIDE, SA 5000.

Attention: Simon Lee/Dave Clarke

REPORT GS 4137/82 - PART I

YOUR REFERENCE: Order No. SDL/H/025 of 5 February 1982
MATERIAL: Panned concentrates
IDENTIFICATION: 790581-790760
DATE RECEIVED: 8 February 1982
WORK REQUIRED: Size analysis.

Investigation and Report by: Michael Farrand & Bev Sellman

Chief - Geological Services Section: Dr Keith J. Henley
Manager, Mineral and Materials Sciences Division: Dr William G. Spencer

for Norton Jackson
Managing Director.

Pilot Plant: Osman Place
Thebarton S.A.,
Telephone 43 8053
Branch Laboratories:
Perth W.A.
Telephone 325 7311
Melbourne Vic.
Telephone 645 3093

bs/1:1

GRAIN SIZE DISTRIBUTION IN PANNED CONCENTRATES

1. INTRODUCTION

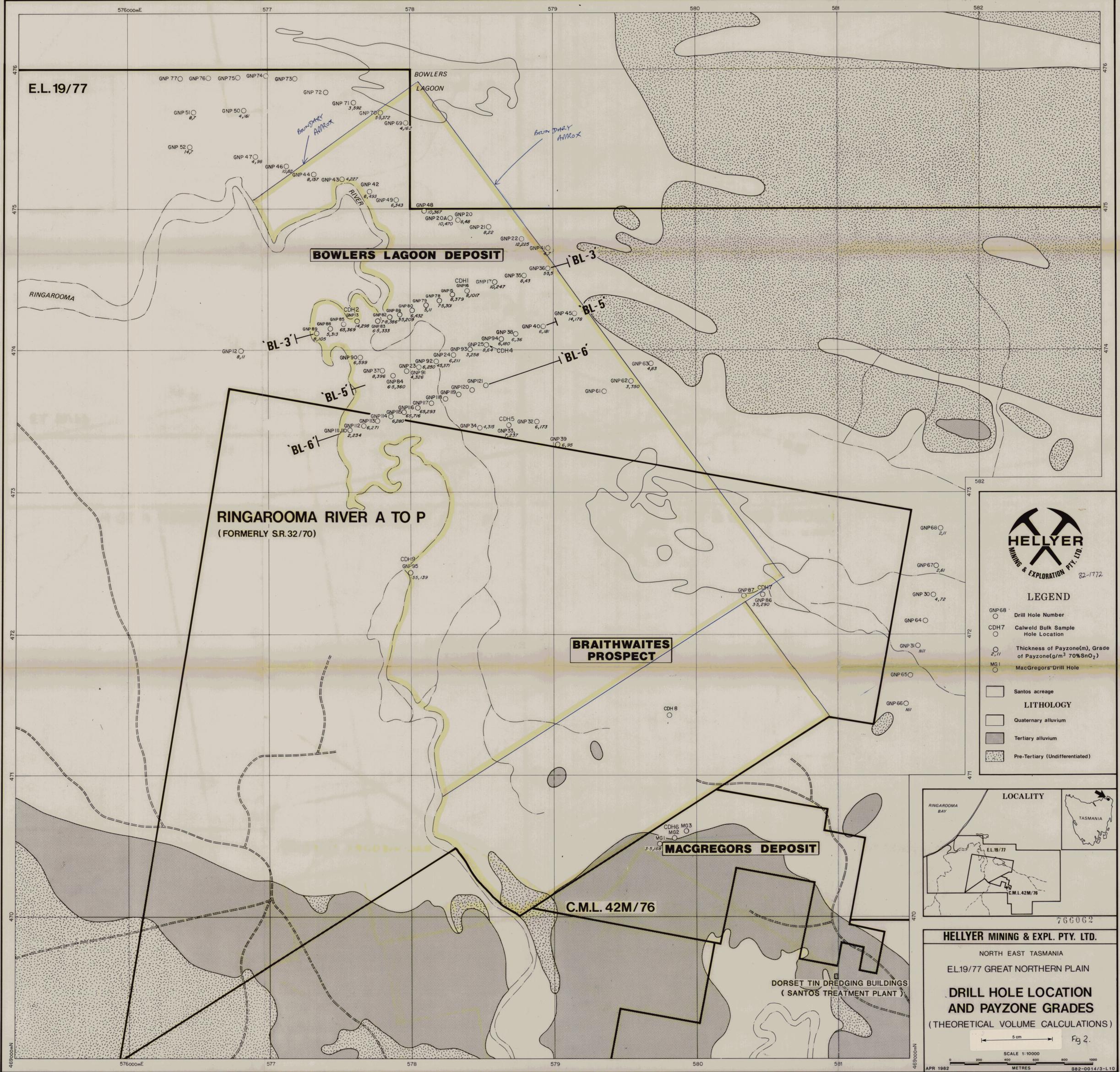
Ten panned concentrates were received from Santos Limited, Minerals Exploration Department. A sizing analysis by dry screening was requested for all samples and mineralogical analysis for four of them. This part of the report is concerned only with the size analysis.

2. RESULTS

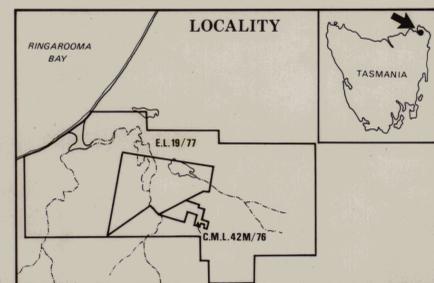
Results of dry screening through BS mesh sieves are given in Table 1.

TABLE 1: % DISTRIBUTION OF SIZE FRACTIONS

Field No.	Sample No.	Total wt.(g)	Wt. % in BS Mesh Size Fractions						
			+14	-14+36	-36+72	-72+100	-100+150	-150+200	-200
RDH 3	790581	15.59	0.32	9.81	59.78	22.13	5.97	1.60	0.38
RDH 4	790582	47.11	-	10.10	62.30	22.22	4.31	0.89	0.17
RDH 7	790584	4.25	9.18	19.53	40.24	24.71	5.65	0.47	0.24
RDH 8	790585	10.23	-	14.17	56.99	25.51	3.23	0.01	-
RDH 10	790753	9.17	0.11	10.49	43.73	35.99	8.94	0.76	-
RDH 12	790755	6.86	-	2.19	69.68	24.93	3.06	0.15	-
RDH 13	790756	6.97	-	8.05	67.00	22.53	2.44	-	-
RDH 14	790757	11.82	-	10.83	68.87	18.44	1.69	0.17	-
RDH 17	790759	8.97	-	2.23	52.62	38.13	5.57	1.45	-
RDH 18	790760	15.85	-	3.34	48.26	38.48	7.07	2.84	-
	Total	136.82							
	Ave.	13.68		9.07%	56.95%	27.31%	4.80%	0.89%	



- LEGEND**
- GNP68 Drill Hole Number
 - CDH7 Calweld Bulk Sample Hole Location
 - 2,11 Thickness of Payzone(m), Grade of Payzone(g/m³ 70%SnO₂)
 - MG1 MacGregors Drill Hole
 - Santos acreage
- LITHOLOGY**
- Quaternary alluvium
 - ▨ Tertiary alluvium
 - ▩ Pre-Tertiary (Undifferentiated)



HELLYER MINING & EXPL. PTY. LTD.

NORTH EAST TASMANIA
 E.L.19/77 GREAT NORTHERN PLAIN

DRILL HOLE LOCATION AND PAYZONE GRADES
 (THEORETICAL VOLUME CALCULATIONS)

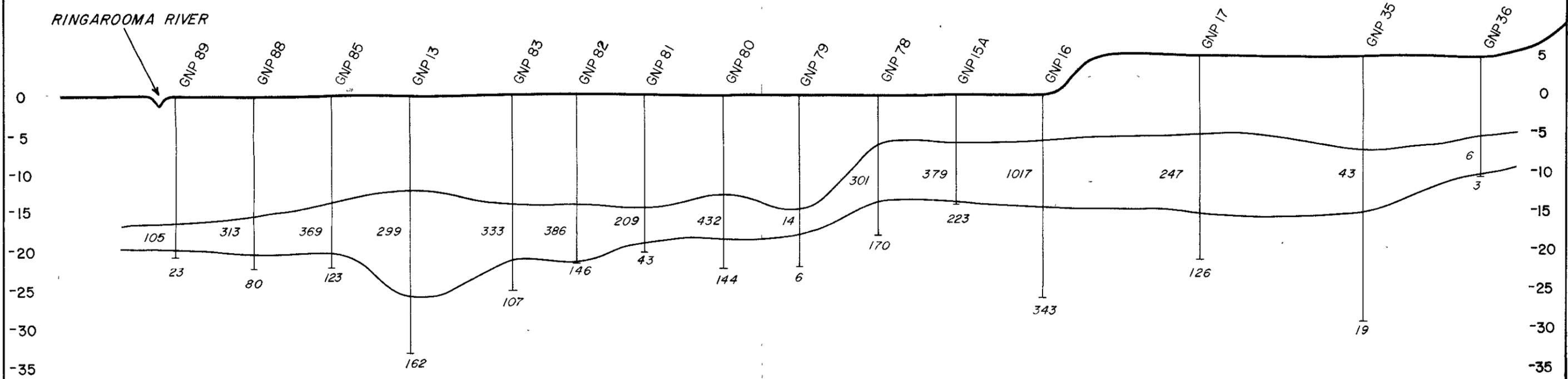
5 cm
 SCALE 1:10000
 METRES

APR 1982 582-0014/3-L10

WEST

EAST

RINGAROOMA RIVER



766063



82-1772

HELLYER MINING & EXPL. PTY. LTD.
 NORTH EAST TASMANIA
 E.L. 19/77 GREAT NORTHERN PLAINS
SECTION LINE 'BL-3'
BOWLERS LAGOON

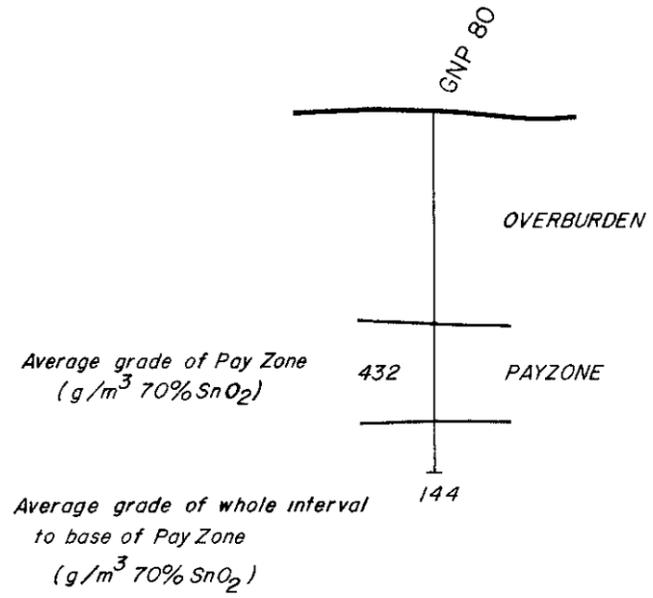
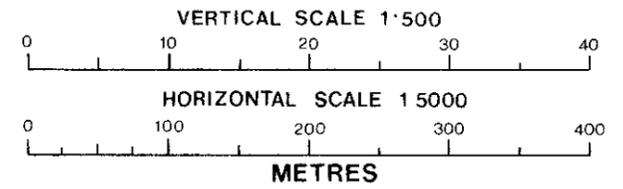
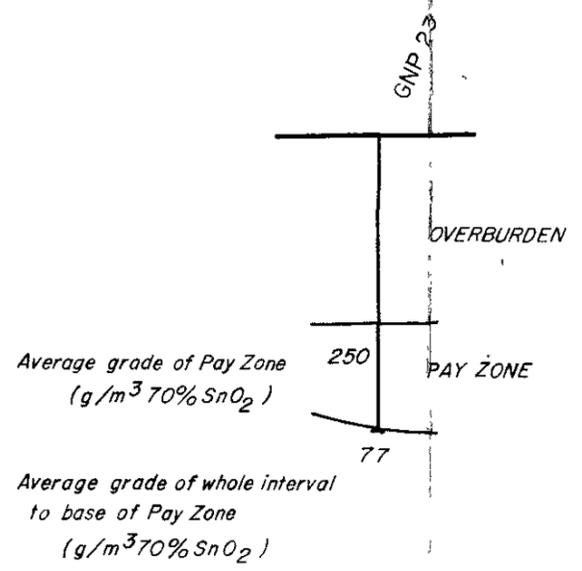
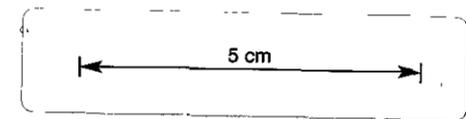
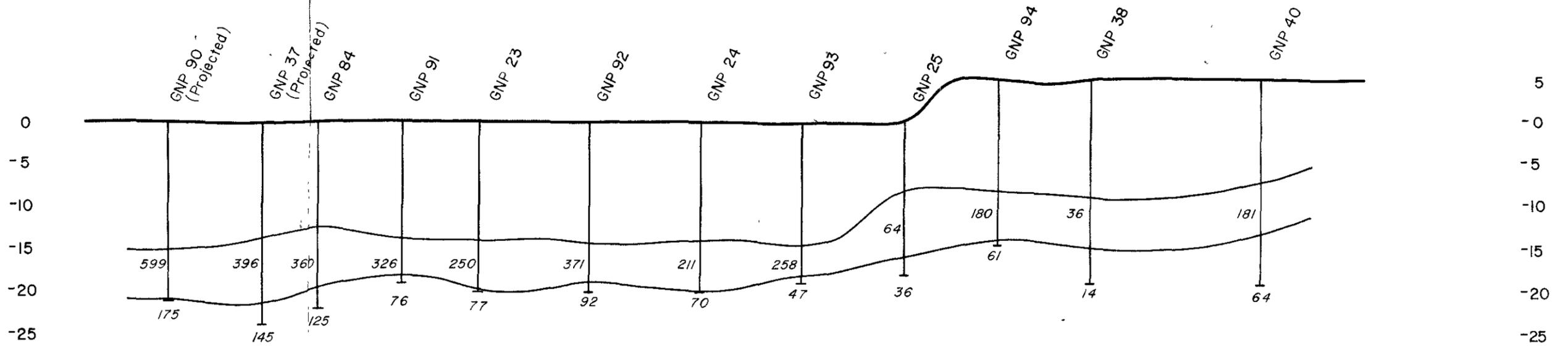


Fig 3

WEST

EAST



HELLYER MINING & EXPL. PTY. LTD.
 NORTH EAST TASMANIA
 E.L. 19/77 GREAT NORTHERN PLAINS
SECTION LINE 'BL-5'
BOWLERS LAGOON

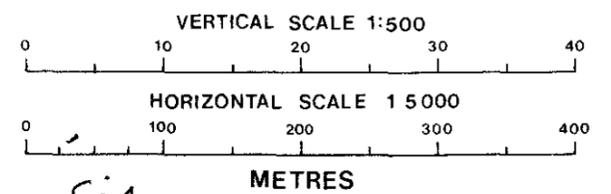
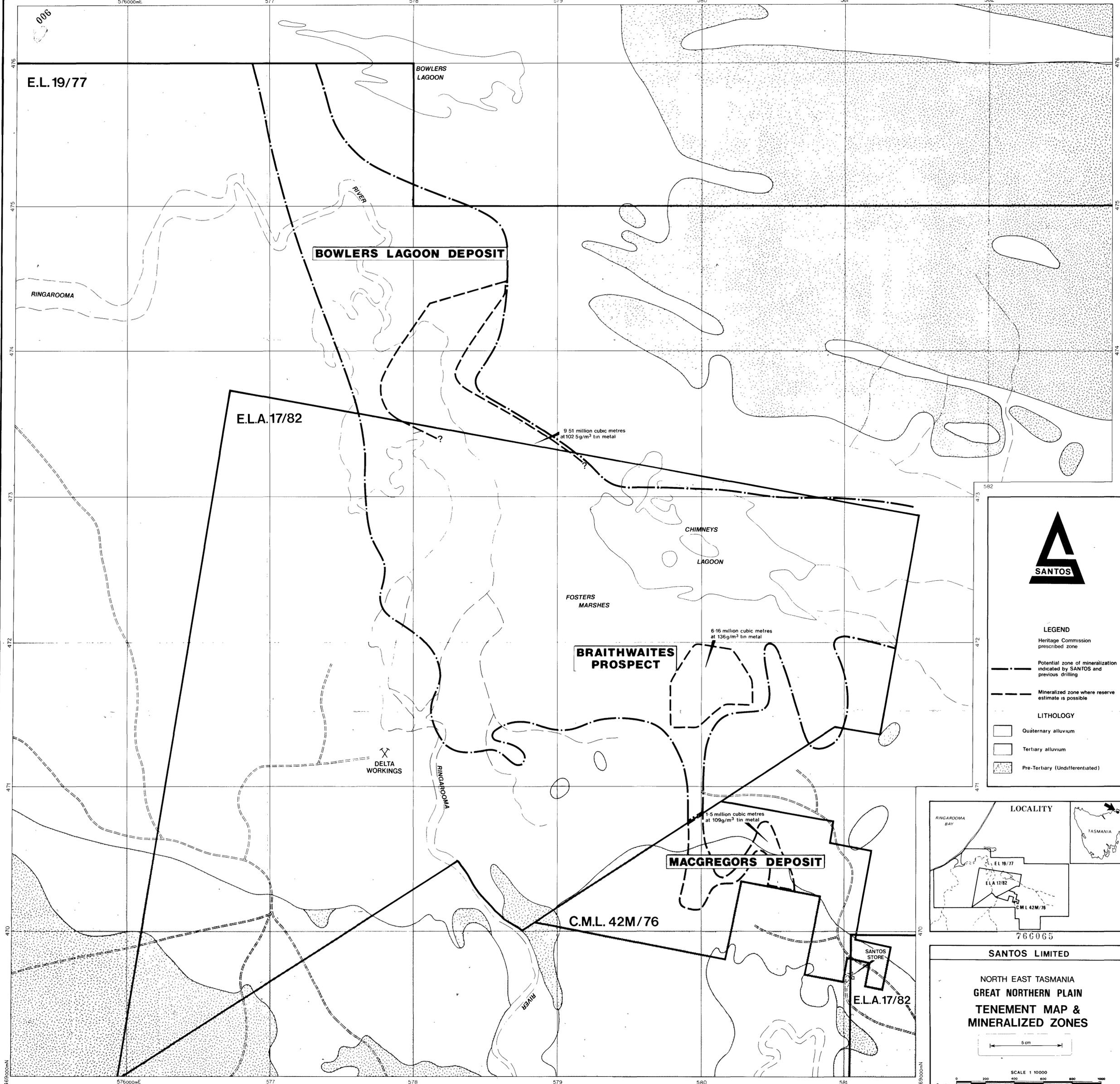


Fig 4.



E.L. 19/77

E.L.A. 17/82

BRAITHWAITES PROSPECT

MACGREGORS DEPOSIT

C.M.L. 42M/76

E.L.A. 17/82

BOWLERS LAGOON DEPOSIT

BOWLERS LAGOON

CHIMNEYS LAGOON

FOSTERS MARSHES

DELTA WORKINGS

RINGAROOMA

RIVER

RINGAROOMA

RIVER

9.51 million cubic metres at 102.5g/m³ tin metal

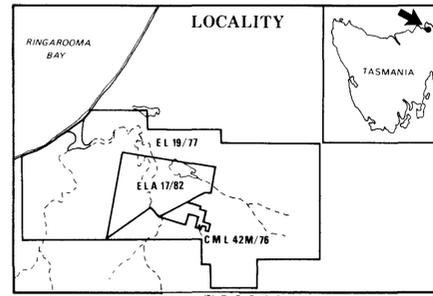
6.16 million cubic metres at 136g/m³ tin metal

1.5 million cubic metres at 109g/m³ tin metal



LEGEND

- Heritage Commission prescribed zone
- Potential zone of mineralization indicated by SANTOS and previous drilling
- Mineralized zone where reserve estimate is possible
- LITHOLOGY
 - Quaternary alluvium
 - Tertiary alluvium
 - Pre-Tertiary (Undifferentiated)



SANTOS LIMITED

NORTH EAST TASMANIA
GREAT NORTHERN PLAIN
TENEMENT MAP & MINERALIZED ZONES

