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No. 2894

EL 274

TRINITY MINE AREA

**PROGRESS REPORTS FOR THE PERIOD
23/11/76 TO 22/8/77**

Submitted by
Australian Selection Pty Ltd
1977

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AND RESOURCES SA**

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AUSTRALIAN SELECTION (PTY) LIMITED

First Quarterly Report for
Trinity

E.L. 274

23rd November, 1976 to 22nd February, 1977



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INTRODUCTION

The Trinity Exploration lease (E.L. 274) is situated in the Olary region south of the Barrier Highway adjacent to the S.A.-N.S.W. border (see Fig. 1). E.L. 274, of area 450 square kilometres, covers parts of Corella, Mutooroo and Ballara pastoral stations.

The area is 25 kilometres south-west of Cockburn, which is on the Barrier Highway and Trans-Australia railway line. The area is surrounded by E.L. 263.

Access within E.L. 274 is by secondary gravel and station tracks.

Reconnaissance showed the country to be side rolling plains with scattered undulating hills covered with sparse vegetation.

Rainfall averages about 200 mm p.a. Runoff is via poorly defined wide creek channels of the River Murray system. Land holdings are confined to pastoral properties with saltbush-bluebush being the main fodder in this low rainfall area.

This same area was held previously by the Director of Mines, S.A., as E.L. 246. Australian Selection was granted title in November 1976, after submitting exploration proposals, in competition with other companies, to the Director of Mines.

Exploration commenced at Trinity in late October, 1976. Corella homestead was renovated and used as an exploration camp, courtesy of Mutooroo Pastoral Company. Work comprised grid recovery, compilation of previous data and geological mapping. Percussion drilling commenced on 23rd November, 1976.

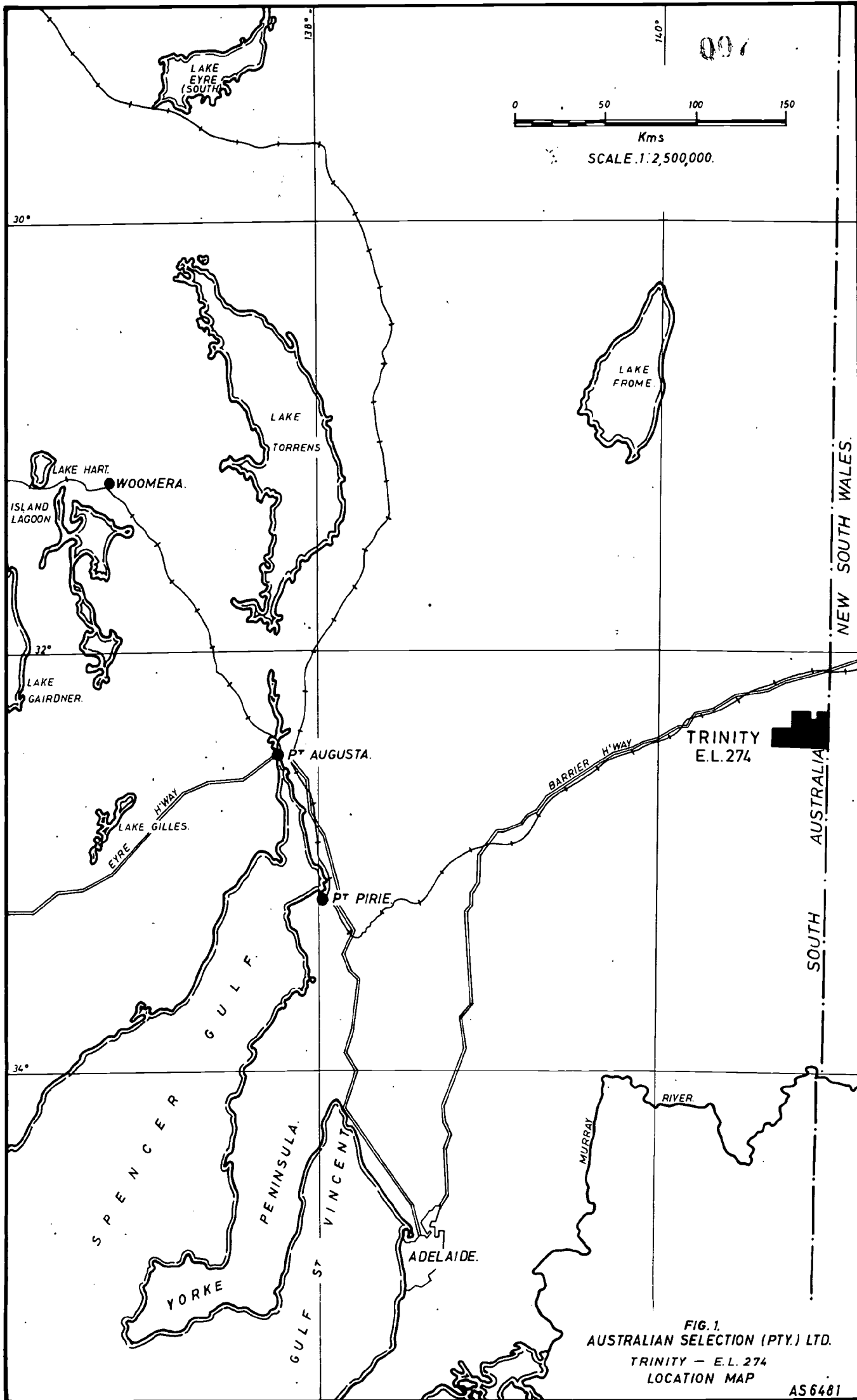
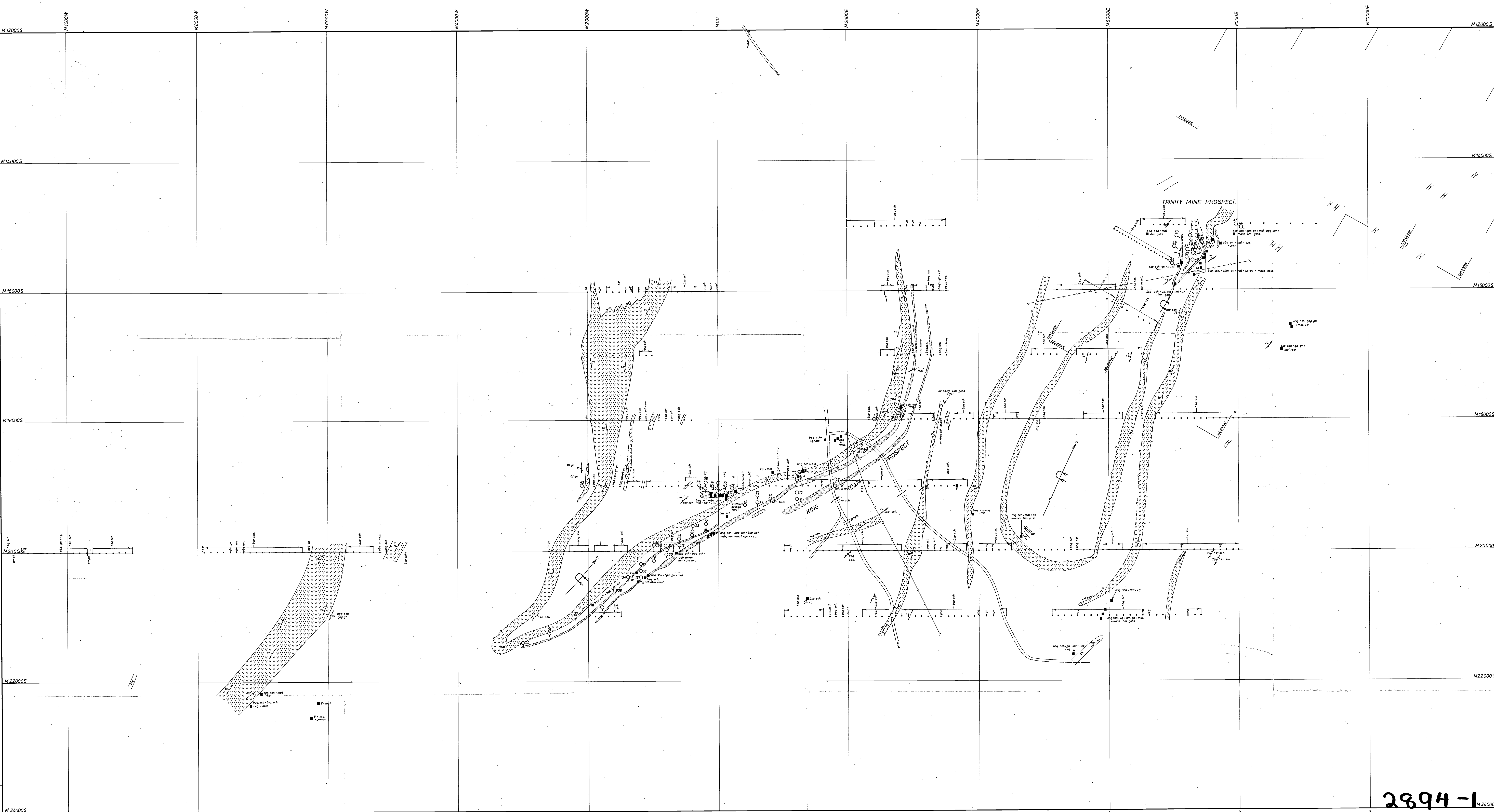
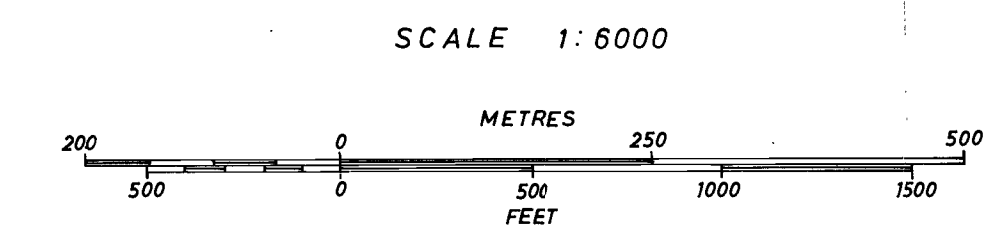
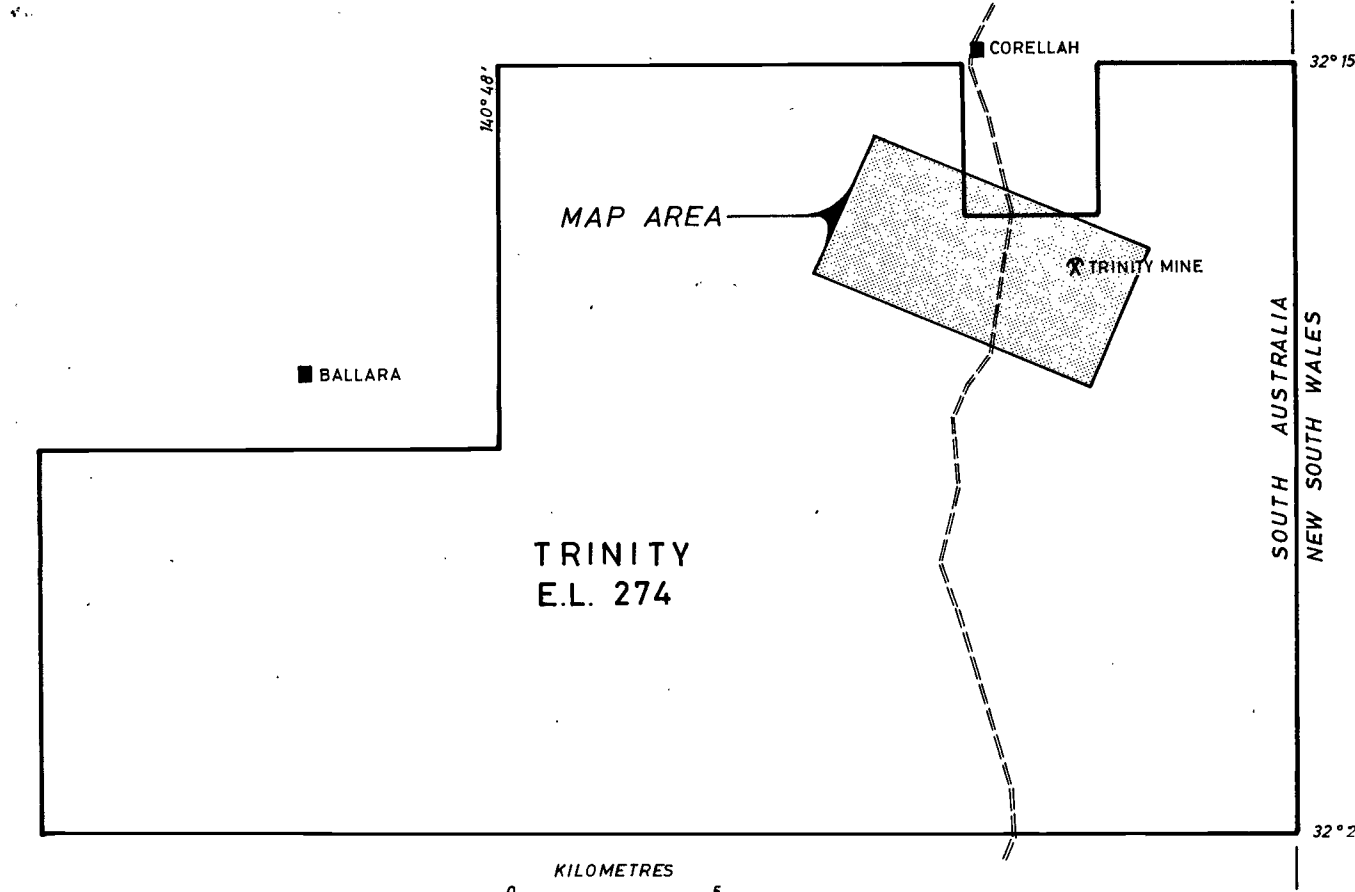
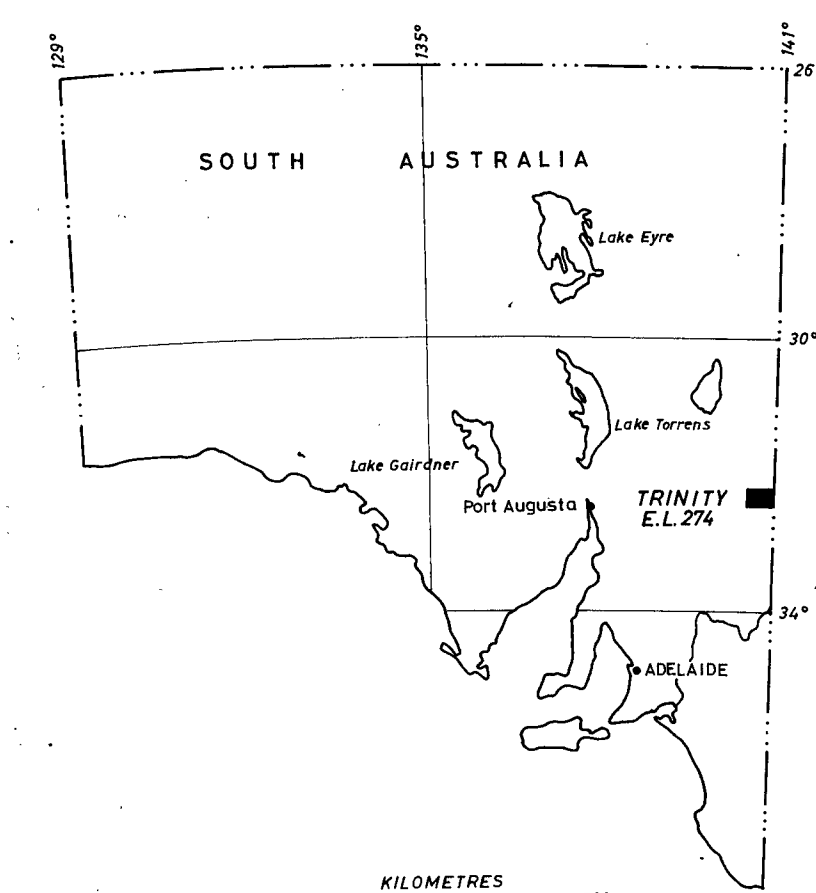


FIG. 1.
AUSTRALIAN SELECTION (PTY.) LTD.
TRINITY - E.L. 274
LOCATION MAP

AS 6481



2894-1



- LEGEND**
- UPDIP PROJECTION OF CHALCOPYRITE, PYRITE-PYRRHOTITE MINERALISED ZONES
 - AMPHIBOLITE
 - PELITIC SCHISTS AND GNEISSES
 - GOSSAN
 - LATERITE
 - QUARTZ
 - SERICITE
 - BIOTITE
 - GNEISS
 - SCHIST
 - VEIN QUARTZ
 - QUARTZITE
 - CALCRETE
 - MALACHITE
 - AZURITE
 - PYRITE
 - LIMONITE
 - GARNET
 - CHALCOPRITE
 - LATERITE
 - SCHISTOSITY-FOLIATION WITH DIP
 - VERTICAL SCHISTOSITY-FOLIATION
 - DIP AND STRIKE
 - GNEISS
 - ISOCLINEAL SYNCLINE
 - GEOLOGICAL BOUNDARY - MAPPED
 - " " - APPROXIMATE
 - " " - INFERRED
 - MINING PITS AND WORKINGS
 - PERCUSSION DRILL HOLE (PTM SERIES)



FIGURE 2.

AUSTRALIAN SELECTION (PTY.) LTD.

TRINITY - E.L. 274.

GEOLOGICAL PLAN AND
DRILL HOLE LOCATIONS.

Revisions	Date			Date
		Compiled by:	J.A.O.	JAN 77
		Drawn by:		
		Traced by:	G.B.B. & R.W.	MAR 77
		Checked by:		
		PLAN NUMBER:	AS 6682	

PERSONNEL AND EQUIPMENT

Exploration Division

Two geologists (one part time) and two field assistants were employed on the project. Field equipment consisted of two Holden utilities.

Supervision was supplied by P. D. Allchurch (Chief Geologist) and M. G. Mason (Senior Geologist).

Operations were controlled from the exploration camp at Corella, with back up from our offices at 32 main St., Pt. Augusta, S.A., 5-13 Tupper St., Boulder, W.A. and 50 St. George's Terrace, Perth, W.A. This included most accounting, drafting and supply.

Drilling Division

A percussion drilling crew (driller and offsider) was employed from 23rd November, 1976, to period end, with a break for Christmas (20th December, 1976 to 24th January, 1977).

A Schramm rotary-percussion drill rig was used with two trucks and a trailer as back up vehicles.

Drilling was supervised from our drilling division office at 149 Forrest St., Boulder, W.A.

PREVIOUS EXPLORATION

Previous Exploration can be divided into two periods; the first from 1962 to 1972 by Mines Exploration Pty. Ltd, and the second by the S.A. Department of Mines from 1973 to 1976.

a. Investigations by Mines Exploration Pty. Ltd.

The area covering E.L. 274 was investigated by MEPL as part of regional exploration of the Willyama block. During this programme they delineated 8.7 million tonnes of 1.8% Cu in massive copper and iron sulphides at Mutooroo Mine. Mutooroo Mine is located close to the northern boundary of E.L. 274 and is still held by Mines Exploration Pty. Ltd. as E.L. 208.

Exploration consisted of regional geological mapping, induced polarisation, TX-AFMAG traverses, soil and bedrock geochemistry, ground magnetics, radiometry and limited percussion and diamond drilling. Two surveyed grids were used: one extensive regional grid with its origin in Broken Hill and a less extensive (Mutooroo grid) covering Mutooroo and Trinity mine areas. Grid north for the regional grid is 040°N magnetic while 010°N magnetic is grid north for the Mutooroo grid. Lines on both grids are 1000 feet apart with pegs 100 feet apart on the lines.

MEPL'S main regional exploration tool was IP carried out on lines 400 feet apart, with follow up on lines 500 feet apart. Station interval was 100 feet.

Soil sampling was then carried out over IP anomalies and often lines 500 feet north and south. Sample interval was 60 feet and analysis for CU, Pb, Zn and Ag.

In later years auger drilling was used to test IP anomalies.

Auger lines were 1000 feet apart with a hole spacing of 100 feet on the Mutooroo grid and 50 feet on the regional grid. Limited follow up auger drilling at 10 feet spacing interval was done.

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Auger samples were analysed for Cu, Pb and Zn. Some were also analysed for Ag, Sn, V, Au, Ni and Mn.

Coincident auger-IP and soil-IP anomalies were tested by either percussion or diamond drilling (7 holes). Later auger drilling superseded IP traversing and became the main regional exploration tool. Details are in Special Mining Lease reports submitted to the S.A. Department of Mines and also Stadter (1976).

b. Investigations by S.A. Department of Mines

The S.A. Department of Mines investigated an area of 16 square kilometers surrounding Trinity Mine to follow up untested MEPL auger results of up to 0.5% Cu. Exploration consisted of limited geological mapping, ground magnetic, aeromagnetic surveys, I.P. and extensive soil sampling programme.

Soil sampling was carried out using the Mutooroo grid on lines 250 feet apart. A spacing of 50 feet and sample depth of 9 inches was used. Samples were analysed for Cu, Pb and Zn. Limited samples were analysed for Au, Ag, Fe, Mn, etc., as part of an orientation programme. (See Stadter, 1976).

A limited airborne INPUT/magnetic survey was flown over the Trinity Mine by Geoterrex in 1975 (Stadter, 1976).

GENERAL GEOLOGY

During the quarter, some regional geological mapping at a scale of 1:25,000 was carried out on aerial photographs enlarged from 1:80,000 in the north east of the E.L. and near the Ballara prospect in the west.

Grid geological mapping at a scale of 1:6,000 was carried out on the Trinity Mine - King Dam area using both the Mutooroo and regional grids (see Fig. 2).

Mapping (1:1,000) using the regional grid commenced on the Trinity Mine Prospect.

No detailed description of the geology is presented in this report as our studies are at an early stage. However, the following notes give geological points of interest.

High grade metamorphic rocks of the Willyama block are found throughout most of the E.L., but exposure is poor. Main rock types are amphibolites, gneisses, schists and pegmatites. The schists and gneisses are commonly rich in mica, kyanite, garnet, magnetite and sulphides.

The major structural feature is a strongly developed foliation striking NE to SW and dipping north-westerly and northly. The foliation is defined by the parallel orientation of micas in the schists and gneisses and hornblende prisms in the amphibolites. Lithological layering is sub-parallel to the foliation suggesting isoclinal folding.

Several macroscopic isoclinal folds have been mapped using amphibolite units as marker beds. Mesoscopic folds with similar style are present; having a moderate north-easterly plunge.

Crenulation of foliation has been observed suggesting at least two periods of deformation have occurred.

PERCUSSION DRILLING

Drilling commenced on E.L. 274 on 23rd November, 1976 and is continuing. During the period 56 holes were drilled for a total advance of 3955 metres. See accompanying statistical table. The location of drill holes is shown in Figure 2.

A truck-mounted Schramm rotary-percussion rig was used. Air drilling was used, with rare cases of water and foam injection where damp ground was encountered.

Most holes were cased only to a few metres. Drilling rate and conditions were generally good but some holes, particularly at the Trinity Mines, intersected highly indurated rocks (amphibolites and quartz-feldspar gneisses) causing slow penetration rates.

Where holes were damp, during air drilling, cuttings tended to line the holes causing difficulty in extracting rods and hammer. Two days were lost recovering bogged rods from PTM-17.

Where high water flows were encountered, the collar pipe tended to wash out and collapse, e.g. especially PTM-21, PTM-51 and PTM-52.

Only one hole, PTM-21, failed to reach target.

Access to drill sites was excellent. Delays were experienced due to mechanical breakdowns and clogging of air filters by dust.

Strong winds often caused much loss of sample.

Percussion chips were collected in plastic buckets placed around the drill collar. Sample interval was 2 metres with the hole being cleared at the end of each run. Samples obtained were generally clean and where contamination did occur was easily estimated. Samples were placed in rows of 20 metres close to the hole. Two sets of samples were collected in kraft envelopes. One set was sent for geochemical analysis (Cu, Pb, Zn and Ag) and other retained at Corëlla homestead as a reference set. This second set of samples will be forwarded to the S.A. Mines Department at the completion of the project. Geochemical results have been plotted onto the percussion logs (see Appendix I).

Samples were logged by binocular microscope on site by a geologist. When significant mineralisation was intersected, 2 to 4 kilograms samples were submitted for Cu, Pb, Zn and limited Ag assay. Assay results appear at the bottom of relevant percussion logs.

SURVEYING

Recovery of MEPL grids showed that both the regional and Mutooroo grids were usable. Some sections where required, were repegged. Further closer spaced gridding, using the Mutooroo grid, was carried out to control work at the King Dam Prospect (200 feet x 100 feet spacings). Total 2200 line feet.

At the Star Prospect 5000 line feet of gridding, using the Mutooroo Grid as base, were carried out (100 feet x 100 feet spacing - 5000 line feet).

Similarly, at Trinity Mine the Regional Grid was used to grid on 100 feet x 100 feet spacing (5000 line feet).

Limited gridding has also been completed to cover other lines with anomalous auger geochemistry.

HYDROGEOLOGY

Static water level (date measured), supply and depth(s) at which water cut are noted on percussion logs. Water samples have been collected and submitted to the S.A. Department of Mines for salinity measurements. Water supply was estimated from the volume of water blown out of the hole during drilling.

Significant water flows (3000-8000gph) were noted only in PTM-21, PTM-24, PTM-34, PTM-47, PTM-50 and PTM-52. Salinities average 20,000 mg/litre. However, better quality water is expected from PTM-52. Static water level in holes with water vary from 19 to 20 metres below surface. This being the approximate limit of oxidation.

MINERALISATION

Throughout the area are many old mine workings with secondary copper and massive limonite gossan on the dumps. Selected gossan samples were submitted for geochemical analysis for Cu, Pb, Zn, Ag, Fe and Mn (see appendix II for results and locations).

Most percussion holes intersected copper sulphides or secondary copper mineralisation.

Below is a summary of significant assay results. Geochemical results and some assays are still outstanding and will be presented next quarter.

Hole No.	From (metres)	To	Thickness (metres)	% Cu
PTM-5	26	28	2	0.86
	28	30	2	0.29
PTM-7	16	18	2	2.50
	18	20	2	0.41
PTM-9	16	18	2	0.32
PTM-11	24	30	6	0.52
PTM-13	34	38	4	0.23
	44	46	2	0.29
PTM-16	36	38	2	0.57
PTM-30	36	40	4	0.32
	40	46	6	1.70
	46	52	6	0.43
PTM-33	24	28	4	0.27
PTM-35	54	56	2	0.44
	56	60	4	not assayed - low grade
	60	64	4	0.57
PTM-36	54	60	6	0.54

All samples returned less than 0.05% Pb and 0.03% Zn

Three areas of mineralisation have been delineated. These have been termed King Dam, Star and Trinity Mine prospect (see Fig. 2).

The King Dam Prospect is a mineralised zone occurring in the footwall of a northerly (grid) dipping stratiform amphibolite body on the southeastern limb of a north-easterly (grid) plunging isoclinal syncline (see Fig. 2). Please note, all directions are reference to the respective local grid norths.

Old workings are scattered along the strike length of the prospect with malachite, azurite and gossan after disseminated copper and iron sulphides occurring on most dumps. Gossan float can also be found.

The limits of the mineralised zone has been delineated by results of auger samples (Cu geochem. MEPL) and soil geochem. results (Cu Dept. Mines Stadter, 1976).

These show it has a strike length of 2438 metres (8000 feet), and is up to 91 metres (300 feet) wide.

Percussion drilling has shown the zone to be three laterally persistent stratiform mineralised horizons, dipping steeply north. Underlying the main mineralised horizon is a distinctive sequence; firstly a quartz feldspar-biotite gneiss, then a kyanite-biotite gneiss which changes in depth to a mica kyanite magnetite schist. Limited data indicates a further thick underlying quartz-biotite-magnetite gneiss unit. The mineralised zone is a gneiss containing quartz, biotite, magnetite garnet and 5-15% copper-iron sulphides. Similar, but unmineralised, rocks may occur adjacent to this horizon. Overlying is a sequence of dominantly gneisses - sometimes containing a poorly mineralised quartz-biotite-garnet gneiss. Overlying the gneisses is a distinctive amphibolite body averaging 100 metres thick.

The distinctive sequence from the kyanite schist to the base of the amphibolite reaches a maximum thickness of 100 metres and averages 60 metres.

Limonite-malachite-azurite form the secondary mineral assemblage (grades up to 2.5% Cu) while primary mineralisation is disseminated pyrite-pyrrhotite-chalcopyrite (grades up to 0.57% Cu but generally 0.1 to 0.3% Cu). In PTM-6 supergene chalcocite and bornite from 26 to 28 metres assayed 0.86% Cu.

In PTM-33 four metres of quartz-magnetite gneiss assaying 0.28% Cu was intersected below the main mineralised horizon. Follow up percussion drilling (PTM-40 and PTM-41) failed to intersect the quartz-magnetite-sulphide gneiss laterally at the same stratigraphic level. Therefore, only a short strike length quartz-magnetite-sulphide gneiss pod is present. Ground magnetics will be used to attempt to define the extent of this pod, and other possible pods on the King Dam Prospect.

Star Prospect is located close to and just west of the King Dam Prospect on the northern (grid) side of the amphibolite body (i.e., in the hanging wall).

Attention was brought to this prospect by an intense Cu soil anomaly (S.A. Mines Dept. results, Stadter, 1976) near mine workings containing quartz-magnetite gneiss with disseminated malachite and limonite pseudomorphs after pyrite on the dumps. PTM-30 tested these workings and intersected 16 metres of 0.88% Cu with an interval of 6 metres of 1.70% Cu. Mineralisation is a disseminated pyrite-pyrrhotite-chalcopyrite-chalcocite assemblage occurring in a quartz-magnetite gneiss.

Follow up percussion drilling has delineated a stratiform lenticular northerly (grid) dipping copper mineralised quartz-magnetite-sulphide pod which strikes grid east and has a strike length of 122 metres (400 feet). Within the core of the body is a higher grade zone which is surrounded by lower grade mineralisation. Deeper drilling is programmed.

Trinity Mine occurs near the closure of a northeasterly plunging synform.

Attention was focused here by showings of secondary copper, massive pyrite and copper-silver rich gossan on dumps.

PTM-51 and PTM-55 were drilled to test the gossan. Both intersected 8-10 metres of moderate grade (estimated 1-1.5% Cu) disseminated chalcopyrite-bornite-pyrite-pyrrhotite mineralisation in quartz-biotite-sericite-magnetite gneiss often rich in kyanite.

PTM-52 and PTM-56 tested down dip extensions of these intersections. Both intersected similar mineralisation.

PTM-46 and PTM-47, immediately south, failed to intersect significant copper, but the zone is open to the north west (grid).

The mineralised zone strikes north (grid), dips steeply west and probably has a moderate plunge north.

Drilling is continuing.

CONCLUSIONS AND RECOMMENDATIONS

Mapping and drilling has shown similar rocks and structures to those at Broken Hill.

Copper mineralisation has been intersected in three main areas; King Dam Prospect, Star Prospect and Trinity Mine.

In each case mineralisation is closely associated with stratiform amphibolite bodies and within or adjacent to garnet and/or magnetite bearing quartz feldspar mica gneisses. Sulphides consist of disseminated chalcopyrite-pyrite-pyrrhotite.

The King Dam Prospect is a mineralised zone 2,400 metres (8,000 feet) long beneath an amphibolite body. The main mineralised zone is generally 10 metres thick with grades 0.1 to 0.5% Cu; e.g. PTM-33 intersected 4 metres 0.28% Cu.

Drilling at the Star Prospect has delineated a chalcopyrite bearing quartz-magnetite-iron sulphide pod of strike length 120 metres (400 feet). PTM-30 intersected 6 metres of 1.70% Cu. This is open in depth and will be followed up by percussion drilling.

Drilling and mapping at Trinity Mine shows several mineralised horizons of which the horizon beneath the old main workings is the most significant. Several holes have intersected significant copper (results awaited) and the body is open to the north and in depth. Percussion drilling is in progress.

A detailed ground magnetic survey is recommended on the above prospects to accurately delineate the quartz-magnetite zones.

The area continues to show considerable promise for discovery of a base metal orebody and a continuing programme is recommended.

J. A. OAKES
GEOLOGIST

E.L. 274 TRINITYEXPENDITURE REPORT FOR FIRST QUARTER23RD NOVEMBER, 1976 TO 22ND FEBRUARY, 1977

	<u>Expenditure for Quarter</u>
Exploration Staff	8,595
Exploration Logistics	4,880
Exploration Services	1,513
Property Costs	231
Percussion Drilling	14,748
Depreciation	1,037
Management and Administration	1,740
Kalgoorlie Office	1,530
	<u>\$34,274</u>

Note: Our accounting system is based on whole months so that the above figures actually represent expenditure in the period up to 31st January, 1977.

KING DAM PROSPECT AND STAR-12 PROSPECT

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Mutooroo Grid - Grid N is 010°N Magnetic

All Holes Inclined 60° From Horizontal

Hole No.	Grid Reference	Depth	Direction
PTM-1	M18000S 2400E	26m	090°gN
PTM-2	M18000S 2800E	68m	090°gN
PTM-3	M18000S 2700E	60m	090°gN
PTM-4	M18000S 3300E	70m	090°gN
PTM-5	M18900S 1800E	68m	180°gN
PTM-6	M19000S 1800E	60m	180°gN
PTM-7	M18900S 1200E	60m	180°gN
PTM-8	M18800S 1200E	80m	180°gN
PTM-9	M19200S 1200E	92m	180°gN
PTM-10	M19100S 1200E	92m	180°gN
PTM-11	M19700S 200W	80m	180°gN
PTM-12	M19600S 200W	94m	180°gN
PTM-13	M19900S 600W	68m	180°gN
PTM-14	M19800S 600W	86m	180°gN
PTM-15	M20400S 1200W	92m	180°gN
PTM-16	M20300S 1200W	68m	180°gN
PTM-17	M20200S 1200W	92m	180°gN
PTM-18	M20150S 1000W	68m	180°gN
PTM-19	M19900S 1000W	74m	180°gN
PTM-20	M20050S 800W	60m	180°gN
PTM-21	M19950S 800W	70m	180°gN
PTM-22	M19750S 400W	68m	180°gN
PTM-23	M19600S 400W	92m	180°gN
PTM-24	M20400S 1400W	56m	180°gN
PTM-25	M20600S 1600W	68m	180°gN
PTM-26	M20850S 1800W	66m	180°gN
PTM-27	M21000S 2200W	78m	180°gN
PTM-28	M21250S 2600W	74m	180°gN
PTM-29	M21400S 3000W	86m	180°gN
✓ PTM-30	M19050S 0000	76m	180°gN
✓ PTM-31	M19050S 200W	72m	180°gN
✓ PTM-32	M19050S 200E	64m	180°gN
PTM-33	M19250S 600E	50m	180°gN
PTM-34	M19150S 600E	80m	180°gN
✓ PTM-35	M18950S 200W	80m	180°gN
✓ PTM-36	M19000S 100W	78m	180°gN
✓ PTM-37	M19100S 100E	62m	180°gN
✓ PTM-38	M19000S 300W	74m	180°gN
✓ PTM-39	M19000S 100E	70m	180°gN
PTM-40	M19300S 400E	60m	180°gN
PTM-41	M19200S 800E	50m	180°gN
PTM-42	M19000S 2100W	50m	090°gN
PTM-43	M16000S 2900E	60m	090°gN
Total 3042 metres			

TRINITY MINE PROSPECTRegional Grid - Grid N is 040°mNAll holes are inclined at 60° from horizontal

Hole No.	Grid Reference		Depth	Direction
PTM-44	196,000S	15300W	56m	090°gN
PTM-45	196,000S	15400W	60m	090°gN
PTM-46	196,800S	15700W	58m	090°gN
PTM-47	196,800S	15800W	68m	090°gN
PTM-48	197,000S	15950W	82m	090°gN
PTM-49	196,750S	16050W	80m	090°gN
PTM-50	196,600S	16100W	80m	090°gN
PTM-51	196,600S	15750W	74m	090°gN
PTM-52	196,600S	15850W	106m	090°gN
PTM-53	196,500S	15700W	24m	090°gN
PTM-54	196,500S	15600W	74m	090°gN
PTM-55	196,700S	15750W	64m	090°gN
PTM-56	196,700S	15850W	87m	090°gN
913 metres				

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Stadter, M. H. (1976). Investigations of the Trinity Mine - Ballara area E.L. 246 S.A. Dept. of Mines - Geochemical Exploration section report.

APPENDIX 1

025 INCLINATION: 60°
DIRECTION: $090^{\circ}9N$

Geochem. not yet available.
14.3.1977.

DRG N°. 45.6479

HOLE N° PTM-55

PROSPECT: TRINITY MINE...

LOG OF PERCUSSION DRILL HOLE

026

R.L. COLLAR :.....

LOCATION 5 km. SSE Corella H.S. CO-ORDS: 196,700 S 157,50 W

INCLINATION: 60°

DIRECTION: 090° , N...

[illegible]

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
 TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: TRINITY MINE
 LOCATION 5km SSE Grelia H.S. CO-ORDS: 196 500 S 156 00 W

HOLE NO PTM-54

R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 090°gN

027

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
very small supply	QUARTZ-CHLORITE-TALC-GARNET-MAGNETITE GNEISS - H.W. - yellow - 30% chlorite, 20% talc, 15% garnets, 10% mag.	10 m	XOX	75	75	30	< 3	30% calcareous soil
			QcTn	190	100	30	< 3	talc after amphibol.
			XOX	90	80	30	< 3	m.g.-c.g. qtz mostl.
			XOX	70	70	30	< 3	
	QUARTZ-CHLORITE-GARNET-MAGNETITE GNEISS - 30% chlorite (green), 15% small pink garnets, 10% f.g. mag, rest qtz - m.w.	10 m	Qcm	80	60	30	< 3	2% limonite pseudomorphs aft. pyrite
			XOX	70	90	30	< 3	
			XOX	70	55	30	< 3	2% limonite pseudomorphs after pyrite
			Qbsm	55	55	35	< 3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - 25% biotite, 15% sericite, 10% f.g. magnetite, rest m.g.-c.g. qtz	20 m	XOX	100	55	30	< 3	
			XOX	100	85	30	< 3	
			Qcm	180	80	35	< 3	
			XOX	145	120	35	< 3	
	QUARTZ-CHLORITE-GARNET-MAGNETITE GNEISS - 25% green chlorite, 15% small pink garnets, 10% f.g. magnetite, rest qtz M.W.	20 m	XOX	245	90	30	< 3	
			XOX	155	85	30	< 3	
			Qbsm	60	75	45	< 3	5% partially S.W. limonitized py
			Qcm	75	1600	55	< 3	2% partially limonite pyrite
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - 40% chlorite, 10% magnetite, rest qtz S.W.	30 m	XOX	400	120	35	< 3	
			XOX	50	50	30	< 3	5% partially limonitized py-pyrrh
			Qbsm	20	50	30	< 3	
			XOX	15	40	30	< 3	5% py-pyrrh
	QUARTZ-BIOTITE-SERICITE-MAGNETITE SCHIST - 30% black biotite, 20% sericite, rest f.g. qtz, 10% f.g. magnetite S.W. Fresh	40 m	XOX	20	45	30	< 3	4% c.g. py-pyrrh.
			Qbsm	15	40	35	< 3	
			XOX	25	55	35	< 3	2% py minor tourmaline
			Qbsm	115	50	30	< 3	2% py-pyrrh.
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - as above	50 m	XOX	65	50	30	< 3	
			XOX	50	50	30	< 3	
			Qbsm	70	45	35	< 3	5% pyrrh & py.
			XOX	50	40	35	< 3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE SCHIST - 30% biotite, 15% sericite, 10% magnetite rest f.g. qtz	60 m	XOX	45	35	30	< 3	
			XOX	25	35	30	< 3	
			Qbsm	20	50	30	< 3	
			XOX	20	25	25	< 3	rare py-pyrrh.
	QUARTZ-GNEISS - 5% mica, 5% fdpr, rest c.g. Milky quartz, - gneissic texture - hard -	70 m	XOX	35	30	30	< 3	
			XOX	30	30	30	< 3	
			Qbsm	25	30	30	< 3	minor py.
			XOX	15	45	30	< 3	
	QUARTZ-BIOTITE-KYANITE GNEISS - 25% biotite, 10% kyanite, rest c.g. qtz	70 m	XOX	20	35	25	< 3	
			XOX					
	END OF HOLE 74 metres							
		80 m						
		90 m						
		100 m						
		110 m						

Grid north is 040°mN

DRILL TYPE: Schramm DATE DRILLED: 15-16 Feb 1977
 DRILLER: R. CRAWFORD LOGGED: J.A. OAKES
 ORG. No. 15 2277

SCALE 1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY MINE
LOCATION 5 km SSE Corolla H.S. CO-ORDS: 196,5 005 15700W

HOLE NO PTM-53

R.L. COLLAR
INCLINATION: 60°
DIRECTION: 090°gN

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	QUARTZ - FELDSPAR GNEISS - 20% c.g. feldspar, 5% mica, rest c.g. qtz - HW		Qf	40	40	25	<3	very hard
			///	50	40	30	<3	
	QTZ - FELDSPAR - BIOTITE - SERICITE GNEISS		Qfb	120	40	50	<3	
	BIOTITE - SERICITE - QUARTZ SCHIST		brss	20	30	100	<3	
	QTZ - FELDSPAR - BIOTITE - SERICITE GNEISS		Qfb	80	40	55	<3	
	QUARTZ - FELDSPAR GNEISS - M.W. as above	10 m	Qf	50	35	30	<3	
			///	75	20	30	<3	
	QUARTZ - FELDSPAR - BIOTITE - SERICITE GNEISS - 20% fap		Qfb	50	35	40	<3	yellow, H.W. shear?
			///	20	30	30	<3	
	QUARTZ - FELDSPAR GNEISS as above	20 m	Qf	35	20	15	<3	
			///	40	20	50	<3	
	Fault zone		ΔΔΔ					No SAMPLE
	END OF HOLE 24 metres							
	Hole abandoned d/w to loss of circulation & sample return							
	Grid N 040°NN.							
		30 m						
		40 m						
		50 m						
		60 m						
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm

DATE DRILLED:

15th Feb 1977

DRILLER:

LOGGED J.A. GAMES

R. CRAWFORD

SCALE 1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY MINE.

HOLE NO° PTM-52

LOCATION 5 km SSE Corella H.S. CO-ORDS. 196,600 S 158,50 W

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
8000 g.p.h.	CALCRETE - nodules - 20% red soil		SCS	155	100	35	< 3	20% H.W. amphibolite
	AMPHIBOLITE - 15% f.g. magnetite, 20% qtz, 25% feldspar, rest hornblende		AA	85	90	110	< 3	H.W. large chips limonite staining
			AA	50	145	40	< 3	
	HORNBLende - CHLORITE - QTZ - MAGNETITE		XX	165	150	40	< 3	
	GNEISS - no chips - M.W. - 20% qtz, 30% chlorite, 10% magnetite, rest hornblende	10 m	ACm	215	155	40	< 3	
			XX	235	150	40	< 3	
	AMPHIBOLITE - blue/black - hard - massive - M.W. - 15% f.g. magnetite, 15% qtz, 10% chlorite, 20% feldspar rest hornblende sub-ophitic texture		A	190	100	45	< 3	
			AA	275	145	40	< 3	
			AA	210	145	45	< 3	
		20 m	A	180	130	45	< 3	
	QTZ - CHLORITE - AMPHIBOLE - MAGNETITE		XX	135	115	35	< 3	M.W.
	GNEISS - 30% chlorite, 25% hornblende 10% f.g. magnetite, rest qtz - feldspar		QCm	250	125	40	< 3	2% limonite pseudomorphs S.W.
			XX	140	500	40	< 3	
	AMPHIBOLITE		A	210	160	40	< 3	after py-pyrrh.
	as above	30 m	A	195	130	40	< 3	
			AA	200	135	40	< 3	
			AA	150	130	40	< 3	4% c.g. py-pyrrh. disseminated
	QUARTZ - CHLORITE - AMPHIBOLE - MAGNETITE GNEISS - 30% green chlorite, 15% f.g. magnetite 15% hornblende prisms, rest a.g. to c.g. quartz	40 m	XX	195	135	35	< 3	
			XX	200	130	40	< 3	
			XX	145	105	35	< 3	
			QA	95	115	30	< 3	3% py-pyrrh. m.g. - c.g. disseminations
			XX	160	130	30	< 3	
			XX	220	120	40	< 3	
			XX	1040	145	45	< 3	
	40% ch-mag schist	50 m	XX	370	140	40	< 3	
	QUARTZ - BIOTITE - CHLORITE - MAGNETITE GNEISS - 25% biotite, 20% chlorite, 15% f.g. magnetite, rest m.g. - c.g. quartz,		XX	295	125	35	< 3	10% py-pyrrh.
			XX	260	120	40	< 3	
			QA	285	115	40	< 3	5% m.g. - c.g. disseminated py-pyrrh.
			XX	135	105	40	< 3	
		60 m	XX	230	120	35	< 3	
			XX	240	110	40	< 3	5% py-pyrrh, rare chpy
	QUARTZ - CHLORITE - GARNET - MAGNETITE GNEISS - 15% small pink garnets, 15% f.g. magnetite, 40% chlorite, rest qtz		XX	360	110	40	< 3	5% py-pyrrh. minor chpy
			QA	400	130	40	< 3	
			XX	2040	110	45	< 3	5% py, 0.5% chpy.
	QTZ - BIOTITE - FELDSPAR - MAGNETITE GNEISS - 25% bte, 15% fsp, 15% mag. rest qtz - m.g. disseminated chpy - c.g. disseminated py-pyrrh.	70 m	XX	1080	55	40	< 3	5% c.g. py-pyrrh. minor chpy
			QA	870	60	35	< 3	
			QA	1860	60	35	< 3	5% py, 0.5% chpy
			XX	1700	95	45	< 3	5% py, 0.5% chpy minor bn.
	QUARTZ - CHLORITE - MAGNETITE GNEISS - 30% chlorite, 15% mag, rest qtz		QA	880	110	35	< 3	minor chpy rare bornite, 5% py
			XX	800	180	30	< 3	
	QUARTZ - BIOTITE - MAGNETITE - KYANITE GNEISS - 25% biotite, 20% f.g. magnetite 10% blue kyanite - m.g. disseminated chpy with bornite intergrowths rest qtz (m.g. - c.g.)	80 m	XX	4000	125	35	3	2% chpy, 0.5% bn
			QA	7600	145	35	4	1.5% chpy, minor bn
			QA	6500	155	40	4	2% chpy, 1% bn.
			XX	7000	175	40	< 3	2% chpy, 0.5% bn
			XX	2070	190	45	< 3	1% chpy, minor bn.
	QUARTZ - BIOTITE - SERICITE - MAGNETITE GNEISS - 25% bte, 15% ser, 15% mag, rest qtz	90 m	QA	1150	140	45	< 3	5% py-pyrrh. minor chpy
			XX	800	100	45	< 3	
	QUARTZ - FELDSPAR GNEISS - 20% pink c.g. feldspar, 10% mica, 5% magnetite, rest c.g. qtz - hard		XX	400	75	40	< 3	
			QA	260	60	35	< 3	1% py-pyrrh. m.g. disseminations
		100 m	XX	640	55	30	< 3	
			XX	220	50	30	< 3	
	QTZ - BIOTITE - SERICITE - MAGNETITE GNEISS - as above		QA	285	50	30	< 3	3% py-pyrrh.
			XX	250	50	30	< 3	
	END OF HOLE 106 metres							
	Grid N is 040°N magnetic	110 m						

DRILL TYPE: Schramm. DATE DRILLED: 12-15 th Feb 1977
DRILLER: R. CRAWFORD. LOGGED: J.A. OAKES
DRG NO° A5. 6475

SCALE 1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PIY) LTD
 TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: TRINITY MINE.
 LOCATION 5 km SSE. Carolla H.S. CO-ORDS: 196 600S 15750W

HOLE NO P1M-51

R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 090°gN

030

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
small supply	AMPHIBOLITE - black - hard - massive - 15% f.g. magnetite, 15% feldspar, 15% qtz, minor epidote & mica, test hornblende - M.W.-S.W. - joint faces often limonite stained 10% epidote minor pink feldsp minor soft white calc	10m	AA	150	40	100	<3	20% calcite & soil
			AA	150	40	130	<3	
			AA	100	40	125	<3	
			AA	155	30	130	<3	
			AA	200	30	140	<3	
			AA	180	30	120	<3	rapid penetra
			AA	180	30	140	<3	rate
			AA	165	35	155	<3	
			AA	225	35	120	<3	
			AA	200	40	115	<3	
2000g.p.h.	QTZ-BIOTITE-MAGNETITE GNEISS S.W 15% mag, 25% biotite test qtz f.g. AMPHIBOLITE - as above	30m	abm	220	40	100	<3	
			XY	205	30	130	<3	water injection commenced
			AA	170	30	120	<3	
			AA	280	40	160	<3	
			AA	190	45	130	<3	
			XY	290	55	200	<3	2% pyrth
			abm	220	50	135	<3	
			XY	210	40	120	<3	5% c.g. py-pyrth
			XY	170	40	130	<3	
			XY	245	40	120	<3	6% pyrth, rare chpy
	QUARTZ-BIOTITE-MAGNETITE GNEISS - 20% f.g. magnetite, 25% biotite, 10% feldspar, test qtz - disseminated m.g - c.g. sulphides - gneissic texture	40m	abm	110	30	100	<3	10% c.g. py-pyrth
			abm	130	30	110	<3	5% py-pyrth.
			XY	690	25	80	<3	5% py, 0.5% ch.
			XY	17200	30	100	<3	5% py-pyrth.
			XY	19500	30	100	<3	2% chpy,
			XY	22000	30	110	<3	1% chalc-bn.
			abm	13500	40	95	<3	2% chpy, 0.5% chalc
			XY	10300	65	100	<3	5% py-pyrth,
			XY	5300	40	85	<3	1% chpy, 0.5% chalc
			XY	2000	30	60	<3	rare chpy, 3% pyrth.
	QUARTZ-FELDSPAR-MICA GNEISS	50m	abm	1500	30	55	<3	minor chpy bn & chalc, 3% py.
			XY	3700	30	100	<3	rare chpy & bn
			XY	2200	40	75	<3	rare chpy
			XY	1900	40	60	<3	
	END OF HOLE 74 metres Hole abandoned to due collar of hole washing out	60m						
		70m						
		80m						
		90m						
		100m						
		110m						

DEPTH	Cu%
52-54m	1.14
56m	1.45
58m	1.43
60m	0.91
62m	0.72

DRILL TYPE: Schramm. DATE DRILLED:

DRILLER: R. CRAWFORD. LOGGED:

SCALE 1:500

DRG N° A5 6463

PROJECT: SOUTH AFRICAN MINING
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY MINE
LOCATION: 5 km SSE. Corella H.S. CO-ORDS: 196,600 S 16,00 W

HOLE N° 111-50
R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090° g N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	QUARTZ-BIOTITE-SERICITE GNEISS - 25% biotite, 15% sericite, 5% feldspar, rest m.g. - c.g. qtz - H.W.		XXX	120	30	55	<3	20% calcareate & soil
			Qbs	260	40	55	<3	
			XXX	100	45	45	<3	
	QUARTZ VEIN - 20% fsp, 15% tourmaline		Q	60	35	30	<3	30% gneiss
	QUARTZ-BIOTITE-SERICITE GNEISS	10 m	XXX	80	50	40	<3	
	as above.		XXX	255	30	40	<3	
	qtz & sericite often red stained. M.W.		Qbs	80	30	65	<3	limonite pseudomorphs after pyrite
			XXX	35	30	30	<3	
			XXX	20	35	40	<3	
		20 m	XXX	10	30	40	<3	minor pyrite
	BIOTITE-SERICITE-QUARTZ-MAGNETITE		XXXX	50	60	55	<3	minor f.g.-c.g. py.
	SCHIST - 25% f.g. - m.g. qtz, 15% f.g. magnetite, rare garnets, rest biotite - sericite - soft - lepidoblastic texture		XXXX	75	30	60	<3	
			bsqm	40	30	30	<3	2% py.
		30 m	XXXX	50	20	40	<3	
			XXXX	170	90	320	<3	minor pyrite
			XXXX	35	30	35	<3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE		XXX	25	20	30	<3	3% py
	GNEISS - 10% f.g. magnetite, 25% biotite, 15% sericite - rest m.g. - c.g. qtz		Qbsm	40	35	30	<3	
			XXX	40	30	20	<3	2% py
			XXX	20	30	25	<3	
	BIOTITE-SERICITE-QUARTZ-MAGNETITE	40 m	bsqm	20	20	30	<3	1% py.
	SCHIST - as above		XXXX	40	15	30	<3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE		XXX	80	20	30	<3	minor chpy, 3% py
	GNEISS - 15% f.g. magnetite, 25% biotite, 15% sericite, rest m.g. - c.g. xenoblastic qtz - gneissic texture + disseminated f.g. - c.g. sulphides		Qbsm	80	30	50	<3	minor gal, 2% py
		50 m	XXX	120	30	60	<3	
			XXX	800	20	40	<3	5% py, rare gal, minor chpy
			XXX	330	25	40	<3	
			XXX	80	30	50	<3	3% py, rare gal & chpy.
			XXX	115	35	40	<3	3% py, rare chpy
		60 m	Qbsm	40	30	30	<3	
			XXX	30	25	30	<3	3% py
			XXX	30	20	30	<3	
			XXX	85	20	40	<3	5% py
			XXX	60	30	40	<3	3% py
		70 m	XXX	50	25	50	<3	
			XXX	115	30	35	<3	5% py.
			XXX	40	30	30	<3	
			Qbsn	60	30	40	<3	
			XXX	100	30	40	<3	rare py
		80 m	XXX	75	30	40	<3	
	END OF HOLE 80 metres Hole abandoned - bit buttons left down the hole.	90 m						
		100 m						
		110 m						

4000 g.p.h.

DRILL TYPE: Schramm. DATE DRILLED: 8-9th Feb 1977
DRILLER: R. WULFF LOGGED: J.A. OAKES
DRG N° A5 6462

SCALE 1:500

PROJECT: SOUTH AUSTRALIA
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY MINE
LOCATION: 5 km SSE Corella H.S. CO-ORDS: 196,750 S 1605032

HOLE NO: P111-44
R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090°g.N.

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	QUARTZ-BIOTITE-SERICITE GNEISS			60	50	60	<3	20% calcrete & soil
	-25% biotite, 15% sericite, minor feldspar, rest m.g - c.g. qtz - gneissic texture - M.W.			70	30	50	<3	lim. pseudos after py
				60	35	50	<3	
				50	35	40	<3	
				35	20	30	<3	
	BIOTITE-SERICITE-QUARTZ-MAGNETITE SCHIST, -15% f.g. magnetite, M.W.	10 m	bsqm	50	30	60	<3	minor c.g. limonite pseudos after py.
	3% small garnets, QUARTZ-VEN.			260	40	105	<3	
				160	40	160	<3	5% lim. pseudo after py
	25% f.g. - m.g. qtz,			60	50	100	<3	
	30% sericite, rest biotite. S.W.	20 m		200	50	80	<3	rare limonite pseudomorphs after pyrite
	-soft- lepidoblastic texture			380	45	90	<3	
				390	30	80	<3	3% lim py pseudos
				720	40	105	<3	
	----- fresh.			1300	30	90	<3	5% lim. pseudos after py.
	QUARTZ-BIOTITE-SERICITE - MAGNETITE-GARNET GNEISS	30 m		4600	30	90	<3	5% py, minor sph. rare chpy
	-20% f.g. magnetite, 20% sericite, 25% biotite, 5% small pink garnets, rest m.g - c.g. xenoblastic qtz - gneissic texture - very c.g. disseminated pyrite, m.g. chpy, f.g. galena			870	30	120	<3	
				160	40	130	<3	10% c.g. py.
				170	40	110	<3	
		40 m		70	40	100	<3	5% c.g. py
				130	45	140	<3	
				2850	30	110	<3	10% py, rare chpy
				2500	20	50	<3	10% py, minor sph
				3440	30	70	<3	20% py, " " "
				1800	30	100	<3	10% py, minor gal, 0.5% chpy
		50 m		1850	30	70	<3	10% py, rare gal, sph chpy
				3050	30	80	<3	10% py, 0.5% chpy, sph
				2430	40	80	<3	10% py, minor gal, sph, chpy
				2260	30	100	<3	
				1480	40	80	<3	5% pyrite, rare chpy
		60 m		1350	30	70	<3	
				1850	75	35	<3	0.5% chpy, minor chalc, br, rare gal, 6% py
				870	70	40	<3	
				330	60	35	<3	
	BIOTITE-SERICITE-QUARTZ - MAGNETITE SCHIST -15% f.g. magnetite, 20% sericite, 20% qtz, 2% small pink garnets, 2% green kyanite rest biotite - black	70 m		195	120	35	<3	2% py
				220	115	35	<3	
				155	155	45	<3	
				220	280	65	<3	1% py.
				195	170	60	<3	
				155	170	50	<3	
		80 m		90	110	40	<3	
	END OF HOLE 80 metres							
		90 m						
		100 m						
		110 m						

SCALE	1:500	DRILL TYPE: Schramm	DATE DRILLED: 7-8th Feb 1977
		DRILLER: R. WULF	LOGGED: J. BAKER
			DRG 11

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
 TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: TRINITY...MINE.
 LOCATION 5 km SSE Corella H.S. CO-ORDS 197,000S 159000W

HOLE N° PTM-48

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 090°gN

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	QUARTZ-BIOTITE-SERICITE yellow, H.W.		///	50	30	40	<3	30% calcrete & soil
	GNEISS - 25% biotite, M.W.		///	20	20	40	<3	
	15% sericite, minor feldspar		Obs	45	30	50	<3	
	test m.g. - c.g. qtz,		///	55	25	60	<3	
	gneissic texture	10 m	///	100	30	90	<3	
			///	60	30	40	<3	
	BIOTITE-SERICITE-Qtz - GARNET -		///	130	45	70	<3	
	MAGNETITE SCHIST - 15% small pink		bsQm	100	50	130	<3	20% gneiss
	garnets, 10% f.g. magnetite, 25% m.g. qtz,		bsQm	105	40	110	<3	
	rest biotite-sericite - soft - M.W.-S.W.	20 m	///	120	30	110	<3	
	QTZ-BIOTITE-MAGNETITE-GARNET GNEISS		///	95	30	100	<3	30% above schist
	-5% small pink garnets, 10% f.g. magnetite,		Qbm	85	35	100	<3	
	25% biotite, 10% sericite, rest qtz S.W.		///	240	35	140	<3	
	fresh		///	110	40	120	<3	
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST	30 m	///	105	40	140	<3	1% pyrite,
	-25% qtz, 10% f.g. magnetite, rare		bsQm	200	40	180	<3	3% pyrite
	garnets, 30% sericite, rest biotite -		///	980	40	250	<3	5% py, rare chpy
	black - soft - lepidoblastic texture		///	1480	30	120	<3	4% py, rare chpy
	QTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		Qbsm	770	30	140	<3	5% c.g. py, rare
	-10% magnetite, 25% biotite, 15% sericite	40 m	Qbsm	590	20	80	<3	chpy.
	QTZ-FELDSPAR-BIOTITE-SERICITE GNEISS		Qbsm	235	20	40	<3	
	BIOTITE-SERICITE-QUARTZ SCHIST		bsQm	130	25	50	<3	
	QUARTZ-FELDSPAR-BIOTITE-SERICITE-		///	380	30	70	<3	5% py, minor
	MAGNETITE GNEISS - 20% feldspar,		///	270	40	60	<3	chpy.
	20% biotite, 15% sericite, 10% magnetite	50 m	Qbsm	520	30	40	<3	5% py, 0.5% chpy, chalc
	rest m.g. - c.g. qtz		///	430	30	60	<3	
	25% biotite		///	345	40	60	<3	5% c.g. pyrite.
			///	140	35	60	<3	rare chpy
			///	90	30	70	<3	
	BIOTITE-SERICITE-QUARTZ-MAGNETITE	60 m	bsQm	170	40	170	<3	
	SCHIST - 15% f.g. magnetite,		///	240	35	180	<3	5% m.g. to c.g.
	5% small pink garnets, 25% qtz,		bsQm	225	40	185	<3	pyrite,
	rest biotite-sericite - disseminated		///	170	35	200	<3	disseminated.
	m.g. - c.g. sulphides - mi	70 m	///	190	30	140	<3	
			///	350	30	170	<3	10% py, rare
			///	980	40	150	<3	chpy
			bsQm	660	40	140	<3	5% py, minor chpy
			///	1640	30	145	<3	
		80 m	///	480	35	150	<3	2% py.
			///	260	30	130	<3	minor py
			///	310	35	120	<3	
	END OF HOLE 82 metres							
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm

DATE DRILLED:

6-7th Feb 1977

DRILLER:

LOGGED: J.A. OAKES

R. WULFF

DRG N°

A.S. 6460

SCALE

1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
 TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: TRINITY MINE
 LOCATION 5 km SSE Corella H.S. CO-ORDS: 196,800 S, 158,000 W

HOLE NO: P7M-47
 R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 090°g N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
5000 g.ph.	QUARTZ-FELDSPAR-BIOTITE-SERICITE GNEISS - 25% feldspar, 25% biotite, 15% sericite, rest m.g.-c.g. qtz - gneissic texture - M.W.	10 m	///	125	35	20	<3	20% calcite & sand
			///	160	50	20	<3	
			Qfbs	145	45	15	<3	late limonite pseudomorphs after pyrite
			///	70	30	15	<3	
			///	75	30	15	<3	
	QUARTZ-FELDSPAR GNEISS - 25% feldspar, 10% mica, rest c.g. qtz - pink colour - very hard - gneissic texture - M.W.	20 m	///	75	20	15	<3	lim. pseudos after py.
			///	55	15	15	<3	
			Qf	50	15	15	<3	
			///	185	35	15	<3	30% Qbs gneiss
			///	135	30	15	<3	limonitized pyrite
	QUARTZ-BIOTITE-SERICITE GNEISS - 25% biotite, 15% sericite, 5% feldspar, rest m.g.-c.g. qtz, - fresh - gneissic texture	30 m	///	45	15	10	<3	
			///	155	35	10	<3	partially lim. pyrite
			///	180	50	30	<3	
			Qbs	275	45	30	<3	minor c.g. pyrite
			///	310	55	25	<3	
		40 m	///	105	45	25	<3	
			///	70	35	20	<3	
			///	110	55	20	<3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - 10% f.g. magnetite, 15% sericite, 25% biotite, rest m.g.-c.g. qtz - disseminated sulphide		///	125	45	20	<3	2% py, rare chpy
			Qbsm	385	70	20	<3	5% py, rare chpy
			///	1000	65	15	<3	5% py, 0.5% chpy
	QUARTZ-FELDSPAR GNEISS - very hard - pink & white - 15% feldspar 10% mica, rest c.g. qtz	50 m	///	310	70	20	<3	2% py, minor chpy
			///	310	55	20	<3	
			Qf	325	60	25	<3	
			///	200	30	20	<3	minor f.g.-c.g. pyrite
			///	400	50	25	<3	
		60 m	///	200	35	20	<3	
			///	355	50	20	<3	
			///	330	80	25	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS - as for interval 22-36 metres		///	220	45	10	<3	
			Qbs	280	65	15	<3	
		70 m	///	165	45	15	<3	
			///	120	35	20	<3	
			///	180	35	20	<3	
	END OF HOLE 68 metres							
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm. DATE DRILLED: 5-6th Feb 1977
 DRILLER: R. WULFF. LOGGED: J.A. OAKES
 DRG NO. A5. 6459

SCALE 1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY...MINE..

HOLE N° PTM-46

LOCATION 5km SSE Corella H.S. CO-ORDS: 196,800 S, 15,700 W

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 090° g N

035

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
very small supply	QUARTZ - FELDSPAR GNEISS - H.W. - 20% fsp, 10% mica, rest c.g. qtz - hard	10 m	100	50	25	15	<3	20% calcite & soil
			105	30	20	15	<3	
	QUARTZ - BIOTITE - SERICITE GNEISS - 25% biotite, 15% sericite, 5% fsp, minor magnetite, rest c.g. qtz - M.W.		110	25	25	15	<3	
			115	45	80	15	<3	
			120	35	30	10	<3	
	BIOTITE - SERICITE - QUARTZ SCHIST - soft - M.W. - 30% qtz, rest bte - M.W.	20 m	125	145	35	15	<3	
			130	305	55	20	<3	
			135	295	55	20	<3	
	QUARTZ - BIOTITE - SERICITE - MAGNETITE GNEISS - 5-10% f.g. magnetite, 25% biotite, 15% sericite, rest mg - c.g. qtz. - M.W.		140	2300	40	20	<3	1% malachite, 10% limonite
			145	1140	35	15	<3	minor chpy, py & mal
			150	600	40	25	<3	2% limonitized pyrite
			155	240	75	25	<3	
			160	145	50	25	<3	minor pyrite
	QUARTZ - FELDSPAR GNEISS - fresh - very hard - 5% magnetite, 2% feldspar, 10% mica, rest qtz	30 m	165	175	35	25	<3	
			170	105	35	15	<3	
			175	680	40	15	<3	1% py, minor mal contam
			180	65	30	10	<3	
	QUARTZ - BIOTITE - SERICITE GNEISS - 25% biotite, QUARTZ - GNEISS		185	2400	50	15	<3	2% py, f.g. - m.g.
END OF HOLE 58 metres	15-20% sericite, rare magnetite, rest m.g. - c.g. xenoblastic qtz - gneiss texture	40 m	190	210	70	20	<3	minor pyrite
			195	260	50	20	<3	
			200	65	50	30	<3	
			205	45	35	25	<3	1% py
			210	30	35	30	<3	5% py, rare chpy
		50 m	215	85	40	15	<3	
			220	35	40	15	<3	
			225	50	55	15	<3	5% py
			230	385	30	25	<3	minor pyrite
			235	355	25	20	<3	
			240	240	25	20	<3	
		60 m						
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm

DATE DRILLED: 3rd - 4th Feb 1977

DRILLER: R. WULFF

LOGGED: J.A. OAKES

SCALE 1:500

DRG. N° AS 6145

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
 TRINITY EL. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: TRINITY MINE. 036
 LOCATION: 4.8 km SSE Corella H.S CO-ORDS: 1960 00 S, 154 00 W

HOLE N° PTM-45

R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 090gN

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
	CALCRETE - 20% red sandy soil		C.C.	95	35	30	<3	20% gneiss
	QUARTZ-BIOTITE-SERICITE GNEISS.		Qbsx	110	40	30	<3	H.W
	SERICITE-BIOTITE-QUARTZ SCHIST		SSS	215	50	20	<3	
	- 25% quartz, 30% biotite, rest sericite, - soft - lepidoblastic texture	10 m	sbQ	100	40	15	<3	
	- M.W. - minor magnetite		SSS	80	40	15	<3	
			SSS	90	35	15	<3	
			SSS	150	30	15	<3	
	QUARTZ-FELDSPAR-BIOTITE-SERICITE GNEISS - 20% feldspar, 20% biotite, 15% sericite, minor magnetite, rest qtz - M.W.	20 m	Qfbs	140	40	15	<3	20% schist.
			Qfbs	105	40	15	<3	30% schist, lim after py.
			SSS	65	20	10	<3	
			SSS	320	65	20	<3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - 5-10% f.g magnetite. - M.W.	30 m	Qbsm	1100	65	25	<3	minor mat, 5% lim.
	25% biotite, 15% sericite, rest S.W. c.g. qtz		SSS	840	115	25	<3	4% partially limonitized pyrite
	Pink feldspar-qtz-biotite gneiss		Qbsx	150	85	25	<3	2% pyrite
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - as above S.W.		Qbsm	110	65	15	<3	
		40 m	SSS	255	50	15	<3	
			SSS	165	70	20	<3	30% schist, minor py
			SSS	40	60	40	<3	
			SSS	135	55	35	<3	
	BIOTITE-SERICITE-QUARTZ-MAGNETITE SCHIST - 20% f.g. magnetite, 20% qtz, 30% sericite & biotite. - soft - lepidoblastic texture S.W.	50 m	SSS	70	65	35	<3	2% fg - c.g
			SSS	50	60	35	<3	disseminated
			SSS	50	45	35	<3	pyrite
			bsQm	160	80	35	<3	49% py, rare chpy.
	----- silvery. black. fresh	60 m	SSS	145	35	30	<3	2% py.
			SSS	210	65	40	<3	3% py
			SSS	2550	150	45	<3	5% py, 3% ky.
			SSS	540	200	40	<3	5% py. rare chpy.
	QTZ-BIOTITE-SERICITE-MAG. GNEISS	70 m	Qbsm	340	105	50	<3	
	QTZ-FELDSPAR-BIOTITE-MAG. GNEISS		Qbsm	1200	85	45	<3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - as above		Qbsm	245	85	45	<3	
			Qbsm	235	100	40	<3	
	END OF HOLE 62 metres							
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

SCALE 1:500

DRILL TYPE: Schramm DATE DRILLED: 3rd Feb 1977
 DRILLER: R. WULFF LOGGED: J.A. OAKES
 DRG N° 15

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY MINE
LOCATION 4.8 km SSE Corella H.S. CO-ORDS: 196000 S, 153000 W

HOLE N° PTM-44

R.L. COLLAR:

INCLINATION: 60° N

DIRECTION: 090° 3' N
140° m N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
	CALCRETE - 20% red sandy soil		E.C.	170	35	20	<3	30% H.W. gneiss
	QUARTZ-BIOTITE-SERICITE GNEISS		fff	400	30	20	<3	H.W. yellow
	-25% biotite, 10% sericite, minor fsp, rest m.g. - c.g. qtz		fff	210	35	15	<3	
			fff	230	40	20	<3	M.W.
	QUARTZ-BIOTITE-SERICITE-MAGNETITE	10 m	fff	310	70	30	<3	
	GNEISS - 10% mag, 15% sericite, 25% biotite, rest m.g. - c.g. qtz. - m.w.		Qbsm	180	75	25	<3	
			fff	215	75	30	<3	
	QTZ-FELDSPAR-BIOTITE-SERICITE-GNEISS		offsm	185	60	35	<3	10% mag, 1% limy m.w.
	QUARTZ-BIOTITE-SERICITE-MAGNETITE		fff	180	105	35	<3	
	GNEISS - 10% f.g. mag, 15% sericite, 25% biotite, rest m.g. - c.g. qtz	20 m	Qbsm	215	125	35	<3	
			fff	95	85	35	<3	
			fff	110	70	35	<3	
	BIOTITE-SERICITE-QUARTZ-MAGNETITE		ssss	245	200	40	<3	
	SCHIST - soft-black - 20% f.g. magnetite, 25% qtz, rest biotite-sericite.	30 m	bsqm	380	185	40	<3	1% c.g. py.
	-epidoblastic & schistose texture.		ssss	720	195	40	<3	minor py.
	-rare small garnets		ssss	1000	55	180	<3	2% py, rare chpy.
			ssss	780	50	190	<3	
			bsqm	240	50	160	<3	1% pyrite
			ssss	690	40	300	<3	
	QTZ-BIOTITE-MAGNETITE GNEISS	40 m	Qbsm	375	45	175	<3	
			Qbsm	100	45	145	<3	
	AMPHIBOLITE - black - very hard - 15% green epidote, 15% f.g. magnetite 20% qtz, 20% fsp, rest hornblende	50 m	A	145	45	120	<3	minor f.g. pyrite
			A	55	45	145	<3	
			A	100	40	175	<3	
			A	145	40	140	<3	
			A	225	45	135	<3	
			A	180	45	145	<3	
			A	175	45	125	<3	
	END OF HOLE 56 metres Abandoned due to extremely slow penetration rate.	60 m						
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

SCALE 1:500

DRILL TYPE: Schramm

DATE DRILLED: 2nd & 3rd Feb 1977

DRILLER: R. WULFF

LOGGED: J.A. OAKES

DRG N° A.S. 6444

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PIY) LTD
TRINITY. LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING... DAM... 038
LOCATION: A.8 km SSE Corella H.S. CO-ORDS: M.16000 S., 2900 E

HOLE N° PTM-43
R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090°g N.

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
small supply	CALCRETE - nodules - 20% red sandy soil		c.c.	50	45	75	<3	30% gneiss
	QUARTZ-BIOTITE-SERICITE GNEISS - H.W.		Qbs	95	45	95	<3	
	5% garnets, 15% sericite, 25% biotite, rest qtz		///	125	50	110	<3	
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS		Qbm	70	50	100	<3	H.W. 5% lim.
	-25% biotite, 25% garnet, 10% mag, rest qtz		///	50	80	95	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS	10 m	///	55	55	110	<3	
	-15% sericite, 25% biotite, 10% fclpt,		///	85	70	120	<3	
	late garnets, rest m.g. - c.g. xenoblastic		Qbs	160	50	100	<3	
	qtz - gneissic texture		///	60	60	115	<3	
	M.W.	20 m	///	75	65	110	<3	
	S.W.		///	125	85	90	<3	
			Qbs	100	60	120	<3	3% f.g. py.
			///	85	60	105	<3	5% f.g. py.
			///	245	55	100	<3	rare chpy. 5% py
	QUARTZ-BIOTITE-SERICITE-GARNET-KYANITE GNEISS - 25% biotite,	30 m	///	305	55	95	<3	minor chpy " "
	15% sericite, 5% garnet, 5% kyanite, rest m.g. - c.g. qtz.		///	1310	60	80	<3	10% pyrite.
	-fresh.		Qbs	500	50	90	<3	10% f.g. py.
			///	350	50	135	<3	5% f.g. py
		40 m	///	120	55	110	<3	5% f.g. py
			///	105	75	130	<3	5% py
			///	160	85	145	<3	2% f.g. py.
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS - 15% garnets, 10% magnetite		///	95	65	105	<3	
	25% biotite, rare kyanite, rest m.g. - c.g. qtz.		///	75	70	85	<3	
	BIOTITE-SERICITE-QTZ-MAGNETITE SCHIST	50 m	Qbm	55	60	75	<3	
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS - as above		///	50	60	75	<3	5% f.g. pyrite
	AMPHIBOLITE - 10% lim - black - hard.		///	45	50	165	<3	
	END OF HOLE 60 metres	60 m	A A A	60	60	90	<3	30% gneiss, 5% py
				55	60	115	<3	
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm. DATE DRILLED: 31st Jan - 1st Feb 1977
DRILLER: R. WULF. LOGGED: J.A. OAKES
DRG N° 15. 6223

SCALE 1:500

PROJECT: SOUTH AUSTRALIAN LOG OF PERCUSSION DRILL HOLE
 PROSPECT: KING DAM
 LOCATION: 5 km SSW. Carella H.S CO-ORDS: M19000S, 2100W

HOLE N. PTM-42

R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 090°gN

039

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
No water	CALCRETE - 15% red sandy soil		5.5	45	25	35	<3	30% gneiss
	QUARTZ-BIOTITE-SERICITE GNEISS - H.W		Obsf	50	30	35	<3	yellow, H.W
	QUARTZ-BIOTITE-FELDSPAR-SERICITE GNEISS - 25% bte, 15% fsp, 15% serc		Obsf	30	20	35	<3	yellow, H.W
	QTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - M.W - 10% mag, 15% serc, 25% bte	10 m	f/f	15	25	35	<3	M.W.
	QUARTZ-BIOTITE-SERICITE-FELDSPAR GNEISS - 15% sericite, 15% orthoclase, 25% biotite, rest a.g-c.g qtz - M.W S.W		Obsf	10	45	40	<3	
			f/f	25	40	40	<3	
			f/f	35	35	45	<3	
			Obsf	50	30	55	<3	
			f/f	30	35	50	<3	
			f/f	95	15	50	<3	
	METAQUARTZITE - 10% mica, 10% fsp.	20 m		20	15	30	<3	mg qtz.
	QUARTZ-BIOTITE-SERICITE GNEISS		Obsf	5	20	30	<3	
	QTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - 10% mag, 15% serc, 25% bte		Obsf	5	20	30	<3	
			f/f	75	30	70	<3	10% amphibolite
	AMPHIBOLITE - black-fresh - 20% f.g. magnetite, 20% qtz, 30% fsp, minor green epidote, 5% sericite, rest hornblende	30 m	A	130	35	100	<3	
			A	145	40	110	<3	
			A	140	30	115	<3	30% b.s.g.m. schist
	BIOTITE-SERICITE-MAG-GARNET SCHIST		bsm	110	40	120	<3	40% amphibolite, 1% py
	AMPHIBOLITE - as above		A	65	40	100	<3	30% b.s.g.m. schist
	QUARTZ-BIOTITE-SERICITE-MAG. GNEISS	40 m	Obsf	80	30	100	<3	30% amphibolite
	AMPHIBOLITE - black-very hard - 20% f.g. magnetite, 20% quartz, 30% plagioclase, minor epidote & sericite, rest hornblende - massive		A	180	30	100	<3	
			A	180	25	105	<3	
			A	150	40	125	<3	minor f.g. pyrite
			A	160	40	110	<3	
			A	170	50	115	<3	
END OF HOLE 50 metres Abandoned due to extremely slow rate of penetration.		50 m						
		60 m						
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm. DATE DRILLED: 31st Jan 197
 DRILLER: R. WULFF LOGGED: J.A. OAKES

SCALE 1:500

DRG-N° 15 6202

PROJECT: SOUTH AUSTRALIA

TRINITY

LOG OF PERCUSSION DRILL HOLE

HOLE NO. FIM-41

PROSPECT: KING DAM

R.L. COLLAR:

INCLINATION: 60°

LOCATION: 5 km S. Corella H.S. CO-ORDS: M19200S, 800E

DIRECTION: 180° g N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
Small supply	BIOTITE-GARNET-QUARTZ-GNEISS - 30% c.g. garnet, 25% qtz, rest bte - H.W.	10 m	0 x 0	1350	155	50	<3	10% calcareous sand
	QUARTZ-BIOTITE-GARNET-MAGNETITE GNEISS - 25% biotite, 15% garnet, 10% magnetite, rest qtz, - H.W.		0 x 0	3150	400	90	<3	1% mat, 5% lin
	BIOTITE-Qtz-GARNET-MAGNETITE GNEISS - 30% qtz, 15% garnet, 10% mag, rest bte		0 x 0	2500	540	130	<3	1% mat, 5% lin
	QUARTZ-BIOTITE-SERICITE GNEISS - 25% biotite, 15% sericite, 5% magnetite, 5% garnet, rest mg.-c.g. qtz. S.W.		Qbm	5300	135	75	<3	2% mat, 5% lin
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	20 m	1 x 0	1950	90	45	<3	1% mat, 5% lin
	QUARTZ-BIOTITE-SERICITE GNEISS - 25% biotite, 15% sericite, 5% magnetite, 5% garnet, rest mg.-c.g. qtz. S.W.		1 x 0	310	135	60	<3	M.W.
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		1 x 0	155	90	45	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS - 25% biotite, 15% sericite, 5% magnetite, 5% garnet, rest mg.-c.g. qtz. S.W.		1 x 0	130	50	25	<3	
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	30 m	Qbs	340	55	25	<3	minor pyrite
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		1 x 0	355	75	30	<3	5% f.g. pyrite
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		1 x 0	100	55	30	<3	2% pyrite
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		1 x 0	95	80	30	<3	minor pyrite
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	40 m	bsqm	660	40	25	<3	20% mag, 3% py.
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		Qbs	80	25	30	<3	1% py.
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		Qbs	115	40	25	<3	1% py.
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		Qbs	85	40	15	<3	2% py.
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	50 m	bsqm	165	50	20	<3	3% py
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm	205	75	30	<3	minor py.
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		bsqm	40	30	20	<3	black.
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm	100	25	20	<3	2% f.g. pyrite
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	60 m	bsqm	35	35	15	<3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm	45	100	25	<3	
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		bsqm	30	125	25	<3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm	110	60	25	<3	
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	70 m	bsqm	170	45	30	<3	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		bsqm					
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	80 m	bsqm					
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		bsqm					
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	90 m	bsqm					
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		bsqm					
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	100 m	bsqm					
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		bsqm					
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.	110 m	bsqm					
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST 30% qtz, 10% magnetite, rest bte - S.W.		bsqm					
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		bsqm					

END OF HOLE 50 metres

DRILL TYPE: Schramm

DATE DRILLED:

30th Jan 1977

DRILLER:

LOGGED: J.A. OAKES

R. WULF

DRG NO. 15 6441

SCALE

1:500

PROJECT: SOUTH AUSTRALIA
TRINITY LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING... D.A.M....
LOCATION: 5 km S. Cornelia H.S. CO-ORDS: M.19300 S., 400 E

HOLE N° PIM-40

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 180°gN

041

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
No water	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - 10% mag, 15% seric, 25% bte, rest qtz - H.W.		225	45	20	<3		10% calcite & soil
	BIOTITE-SERICITE-QUARTZ SCHIST - H.W.		250	35	20	<3		15% vein qtz.
	QUARTZ-BIOTITE-SERICITE GNEISS - 25% biotite, 15% sericite, 10% feldspar, rest m.g.-c.g. xenoblastic qtz - M.W. - gnaissic texture	10 m	500	100	40	<3		
			255	50	40	<3		
			250	45	40	<3		
			225	75	35	<3		
			600	75	30	<3		40% bte-ser qtz sch
			320	60	25	<3		
			330	60	30	<3		30% vein qtz
	BIOTITE-GARNET-QUARTZ-GNEISS	20 m	680	100	35	<3		20% vein qtz
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS		210	65	25	<3		
	BIOTITE-GARNET-QUARTZ-MAGNETITE GNEISS - 30% garnet, 20% qtz, 10% mag, rest biotite		3550	135	40	<3		1% mal, 5% lim.
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS		1100	150	40	<3		minor mal, " "
	BIOTITE-GARNET-QUARTZ-MAGNETITE GNEISS - 35% garnet, 25% qtz, 10% mag, rest biotite	30 m	580	85	50	<3		minor mal & py. m.w.
			920	135	50	<3		rare py S.W.
			580	200	90	<3		
	QTZ-BIOTITE-SERICITE-GARNET-MAGNETITE GNEISS - 25% biotite, 15% sericite, 15% c.g. garnet, 10% mag, rest qtz - dissemin. sulphides		5000	520	210	<3		1% chpy, 4% py, rare chanco.
			4200	190	75	<3		
			3100	370	90	<3		0.5% chpy, 5% py.
	BIOTITE-SERICITE-QUARTZ-MAGNETITE SCHIST - rare garnets, 25% qtz, 15% magnetite, minor kyanite, rest biotite - sericite - schistose texture	40 m	1100	290	165	<3		
			75	90	90	<3		rare fg pyrite
			75	55	50	<3		
			50	45	40	<3		
			75	160	60	<3		
	QTZ-BIOTITE-SERICITE-MAG. GNEISS	50 m	140	195	60	<3		rare chpy.
	BIOTITE-SERICITE-QUARTZ-MAGNETITE SCHIST		145	130	50	<3		
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS		190	40	35	<3		
	BIOTITE-SERICITE-QUARTZ-KYANITE-MAG SCHIST		60	35	30	<3		minor py.
	QTZ-BIOTITE-KYANITE-MAG. GNEISS - 20% kyanite, 25% biotite, 10% mag, rest qtz	60 m	60	35	25	<3		1% pyrite
			55	30	35	<3		
	END OF HOLE 60 metres							
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm. DATE DRILLED: 30th Jan 1977
DRILLER: R. WULF. LOGGED: J.A. DAKES

SCALE 1:500

DRG N° 15 6110

LOCATION: 5 km S. Corella H.S. CO-ORDS: M19000 S, 300 W.

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 180° g. N

043

Small supply

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM.....
LOCATION 5km S. Corella H.S. CO-ORDS M19100 S, 100 E

HOLE N° PTM-37

R.L. COLLAR:.....

INCLINATION: 60°

DIRECTION: 180° g N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
	CALCRETE - 20% red aeolian sand.		540	75	25	<3		
	QUARTZ-BIOTITE-SERICITE-GARNET GNEISS		600	95	30	<3		
	-25% biotite, 15% sericite, 10% garnets, rest qtz - brown & yellow - H.W.		1050	130	35	<3		
	METAQUARTZITE - 15% fsp (kaolinized)		620	110	35	<3		
	QUARTZ-BIOTITE-SERICITE GNEISS	10 m	750	90	50	<3		10% mica. H.W.
	-25% biotite, 15% sericite, 2% pink small garnets, 10% feldspar, rest m.g. to c.g. qtz - gneissic texture. - M.W. 1% magnetite		365	90	45	<3		
	QUARTZ-BIOTITE-SERICITE SCHIST		185	75	35	<3		
	QUARTZ-MAGNETITE GNEISS - 20% f.g. magnetite, 10% mica, rest m.g. qtz - M.W.		115	75	35	<3		
	BIOTITE-SERICITE-QTZ-GARN-MAG. SCHIST	20 m	175	60	25	<3		minor mal, 20% vein qtz
	QUARTZ-MAGNETITE GNEISS - fresh as above - sulphides m.g.-c.g. dissems.		130	60	25	<3		minor az. & mal. 5% lim.
	QUARTZ-MAGNETITE-BIOTITE GNEISS - 20% magnetite, 20% biotite, rest qtz.		270	85	45	<3		minor mal.
	BIOTITE-SERICITE-QTZ-GARNET-MAGNETITE SCHIST - 20% qtz, 15% garnet, 10% mag	30 m	345	85	40	<3		1% mal & az, 5% lim.
	QTZ-BIOTITE-GARNET-MAG-KYANITE GNEISS - 30% bzo, 15% garnet, 10% mag, 10% ky.		570	90	70	<3		2% mal & az, 5% lim.
	QUARTZ-BIOTITE-MAGNETITE GNEISS - 25% biotite, 15% magnetite, rest m.g. to c.g. qtz - gneissic texture.		4800	115	55	<3		minor mal, "
	QUARTZ-BIOTITE-MAGNETITE GNEISS		3970	185	20	<3		1% chpy, minor chala
	QTZ-BIOTITE-GARNET-MAG-KYANITE GNEISS	40 m	2200	75	25	<3		0.5% chpy, "
	QUARTZ-BIOTITE-MAGNETITE GNEISS		700	75	30	<3		rare chpy, 5% c.g. pyrite
	QTZ-BIOTITE-GARNET-MAG-KYANITE GNEISS		840	80	25	<3		
	QUARTZ-BIOTITE-MAGNETITE GNEISS		480	90	50	<3		
	QTZ-BIOTITE-GARNET-MAG-KYANITE GNEISS	50 m	740	130	35	<3		3% py.
	QUARTZ-BIOTITE-MAGNETITE GNEISS		840	95	35	<3		
	QTZ-BIOTITE-GARNET-MAG-KYANITE GNEISS		1750	65	45	<3		5% c.g. py.
	QUARTZ-BIOTITE-MAGNETITE GNEISS		1050	45	40	<3		rare chpy, 5% py
	QTZ-BIOTITE-GARNET-MAG-KYANITE GNEISS		260	40	30	<3		rare chpy, 3% py
	QUARTZ-BIOTITE-MAGNETITE GNEISS		500	65	40	<3		minor chpy
	QTZ-BIOTITE-GARNET-MAG-KYANITE GNEISS		520	60	30	<3		1% chpy, 3% py.
	QUARTZ-BIOTITE-MAGNETITE GNEISS		2600	55	30	<3		0.5% chpy, 2% py
	QTZ-BIOTITE-GARNET-MAG-KYANITE GNEISS	60 m	440	35	25	<3		rare chpy
	QUARTZ-BIOTITE-MAGNETITE GNEISS		300	60	35	<3		minor py.
	QTZ-BIOTITE-GARNET-MAG-KYANITE GNEISS		210	40	30	<3		minor py
	QUARTZ-BIOTITE-MAGNETITE GNEISS		235	40	35	<3		
	END OF HOLE 62 metres							
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm

DATE DRILLED:

28th Jan 1977

DRILLER:

R. WULF

LOGGED: J.A. OAKES

SCALE

1:500

DRG N°

AS 6437

FILE NO. 111-36

045 INCLINATION: 60°
DIRECTION: 180° g N

DEPTH	CU%	Zn%	Pb%
54-56m	1.17	0.02	<0.02
58m	1.24	0.02	<0.02
60m	0.45	0.02	<0.02

DATE DRILLED: 27-28th Jan 1977

LOGGED: J. A. OAKES

R. NULFF

DRG N° A5. 6236

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 180° g.N.

DRILL TYPE: Schramm	DATE DRILLED: 26-27th Jan 1977	
DRILLER: R. WULFF	LOGGED: J. A. OATES	
	DRG N°	15 6435

DIRECTION: 190°N

DRG N°	A.S. 6416
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PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM
LOCATION 5 km S. Corella H.S. CO-ORDS: M19250 S 600E

HOLE N° PTM-33
R.L. COLLAR: 048
INCLINATION: 60°
DIRECTION: 190°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
No water	Calcrete - 30% red aeolian sand		210	80	40	<3		minor qtz rubble
	QUARTZ-BIOTITE-GARNET-MAGNETITE GNEISS - 30% c.g. garnet porphyroblasts, 30% biotite, 10% magnetite, rest m.g. - c.g. qtz - H.W.		1780	65	60	<3		minor malachite, 5% limonite
			3580	85	55	<3		1% malachite
			2450	85	60	<3		5% limonite
	TALC-GARNET-AMPHIBOLE-SERICITE SCHIST	10 m	2430	145	65	<3		5% limonite, H.W.
			345	185	55	<3		
	QUARTZ-BIOTITE-GARNET GNEISS		385	85	80	<3		
	- 30% biotite, 20% m.g. - c.g. garnet porphyroblasts m.w.		720	70	65	<3		
			150	60	65	<3		
		20 m	190	50	65	<3		
			600	75	50	<3		30% goossan, 3% py.
	QUARTZ-MAGNETITE GOSSAN - S.W.		340	65	60	<3		3% c.g. lim. pyrrh.
	QUARTZ-MAGNETITE GNEISS - 20% mag		7900	165	70	<3		2% chpy, 6% py, chalc.
	QTZ-BIOTITE-SERICITE-MAGNETITE GNEISS		3700	120	130	<3		1.5% chpy, 5% py. "
	BIOTITE-SERICITE-QTZ-MAGNETITE-KYANITE SCHIST - 10% mag, 10% ky.	30 m	345	155	335	<3		minor pyrrh.
	CHLORITE-MICA-KYANITE SCHIST - black		110	70	75	<3		20% qtz.
	BIOTITE-SERICITE-QTZ-KYANITE SCHIST		120	110	60	<3		
	- 20% f.g. qtz, rare c.g. porphyroblasts, 10% kyanite, 30% sericite, rest biotite - lepidoblastic texture.	40 m	90	70	55	<3		minor. m.g. pyrrh.
			55	85	60	<3		
			45	60	45	<3		3% c.g. pyrrh.
	BIOTITE-SERICITE-KYANITE SCHIST		35	45	50	<3		30% kyanite.
	CHLORITE-BIOTITE-KYANITE SCHIST		40	40	45	<3		
	QTZ-BIOTITE-KYANITE GNEISS		60	50	50	<3		
	QTZ-BIOTITE-MAGNETITE GNEISS		40	40	55	<3		
	END OF HOLE 50 metres	50 m	70	50	45	<3		5% c.g. pyrrh.
ASSAYS								
Depth	Cu%	Zn%	Pb%					
34-36m	0.34	0.03	40.02					
36m	0.22	0.02	40.02					

DRILL TYPE: Schramm. DATE DRILLED: 16th Dec 1976
DRILLER: R. WULFF. LOGGED: J.A. OAKES
DRG-N° AS 6415

SCALE 1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM...
LOCATION: 5km SSW Corella H.S CO-ORDS: M19050 S 200 E

HOLE N° PTM-32

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 190°N

049

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
No water	Red aeolian sand - 30% qtz rubble		Q	215	60	35	<3	rare calcrite
	QUARTZ-BIOTITE-GNEISS - 15%		XXX	235	80	40	<3	30% vein qtz
	biotite, minor sericite, rest m.g. - c.g. qtz - H.W.		Qbs	190	85	40	<3	
			XXX	180	100	40	<3	30% bte schist
	QTZ-BIOTITE-SERICITE GNEISS	10 m	Qbs	830	130	55	<3	green - M.W.
	METAQUARTZITE - white - very hard -			140	70	50	<3	very slow
	5% mica, - massive - rest m.g. qtz			115	60	40	<3	penetration rate
	minor feldspar		XX	110	45	35	<3	5% gossan
	15% feldspar			190	50	60	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS	20 m	XXX	240	60	75	<3	minor mal & gossan
	BIOTITE-SERICITE-QUARTZ SCHIST -		Qbs	600	80	70	<3	0.5% mal, 5% lim.
	25% sericite, 25% qtz, rest biotite			380	65	55	<3	minor mal & gossan
	- qtz is f.g., rare c.g. porphyroblasts		b5Q	320	95	60	<3	
	- soft	30 m		660	80	60	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS			550	95	55	<3	minor pyrrh.
	METAQUARTZITE - 10% mica - very hard		Qbs	150	100	55	<3	2% pyrrh.
	- rare garnets, rest m.g. qtz			190	180	125	<3	5% pyrrh.
	QUARTZ-BIOTITE-SERICITE GNEISS			90	75	55	<3	
	- 30% bte, 20% serc, rest m.g. - c.g. qtz			60	50	60	<3	1% pyrrh.
	CHLORITE-BIOTITE-KYANITE SCHIST	40 m	Qbs	195	70	45	<3	rare pyrrh.
	BIOTITE-SERICITE-QUARTZ-KYANITE SCHIST		XXX	275	95	60	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS		Chkss	200	200	55	<3	black
	- as above		Qbs	135	135	70	<3	
	BIOTITE-SERICITE-MAGNETITE -	50 m	Qbs	230	110	65	<3	poor sample
	KYANITE SCHIST - 15% f.g. mag,		XXX	190	120	65	<3	return.
	10% kyanite, 10% qtz, 25% sericite,			630	145	70	<3	rare chpy, 30% gneiss
	rest biotite.		b5km	315	80	55	<3	minor chpy, 2% pyrrh.
	QTZ-BIOTITE-MAGNETITE-KYANITE	60 m		240	105	55	<3	rare chpy, 2% pyrrh.
	- 25% bte, 15% mag, 10% kyanite, rest qtz		Qbs	240	70	55	<3	5% pyrrh, rare chpy.
			Qbs	260	70	55	<3	7% pyrrh, rare chpy.
			Qbs	320	95	55	<3	5% c.g. pyrrh.
			XXX	335	95	55	<3	
END OF HOLE 64 metres								
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm.

DATE DRILLED:

16th Dec 1976

DRILLER:

LOGGED: J.A. OAKES

R. WULFF

SCALE

1:500

DRG N° AS 6414

HOLE N° PTM-31

PROSPECT: KING DAM.....

LOCATION: 5 km SSW Corella H.S. CO-ORDS: M19050S 200W

R.L. COLLAR :

050 INCLINATION: 60°

DIRECTION: 190°N

[illegible]

DRILL TYPE: Schramm

DATE DRILLED:.....

15th Dec 1976

DRILLER:.....

LOGGED: J. A. OAKES

R. WULFF

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SCALE

1500

HOLE N° PTM-30

R.L. COLLAR:.....

INCLINATION: 60°

DIRECTION: 190°N

LOCATION 5 km SSW Corella H.S. CO-ORDS: M19050S 000E/W

[illegible]

DIRECTION: 190°N

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DRILL TYPE: Schramm	DATE DRILLED: 14th Dec 1976	
DRILLER: R. WULFF	LOGGED: J. A. OAKES	
	DRG NO	45 6411

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
 TRINITY MINE LOG OF PERCUSSION DRILL HOLE
 PROSPECT: KING... DAM...
 LOCATION: 5.3 km SSW Corella H.S. CO-ORDS M21250.5 2600W

HOLE N° PTM-28
 053 R.L. COLLAR.....
 INCLINATION: 60°
 DIRECTION: 190° N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
No water	Red aeolian sand - 20% calcite			175	35	40	<3	20% gneiss
	QUARTZ-BIOTITE-SERICITE GNEISS -		Qbs	335	20	35	<3	
	-yellow-H.W-30% bte, 20% serc, rest qtz		X	150	20	30	<3	
	QTZ-BIOTITE-GARNET GNEISS H.W.		QbO	120	20	35	<3	10% sericite.
	-15% garnets, 25% biotite, rest qtz - M.W.	10 m	X	55	25	30	<3	
	QTZ-BIOTITE-FELDSPAR GNEISS -M.W.		Qbfx	170	25	30	<3	20% vein qtz
	QUARTZ-BIOTITE-SERICITE GNEISS		X	45	25	25	<3	
	-rare small garnets, 15% sericite,		Qbs	130	20	30	<3	
	25% biotite, rest m.g. - c.g. qtz -		X	580	35	45	<3	
	gneissic texture m.w.-s.w.	20 m	X	305	30	45	<3	
	5% garnets, Fr		X	360	25	35	<3	1% pyrrh, rare chpy
	QUARTZ-BIOTITE-GARNET GNEISS		QbXO	330	35	45	<3	2% pyrrh, rare chpy.
	QUARTZ-BIOTITE-SERICITE GNEISS -		X	165	25	40	<3	3% c.g. pyrrh.
	fresh - rare m.g. garnet porphyroblasts,		Qbs	115	25	40	<3	minor
	25% biotite, 15% sericite, rest	30 m	X	160	35	45	<3	pyrrhotite
	m.g. - c.g. qtz. - gneissic texture		X	180	25	35	<3	
			X	290	35	40	<3	rare pyrrh.
	20% sericite,		Qbs	205	30	35	<3	
	less qtz.	40 m	X	130	20	30	<3	rare chpy,
			X	520	25	45	<3	2% pyrrh.
			Qbs	320	25	45	<3	
			X	440	20	30	<3	
			X	230	25	30	<3	
	QUARTZ-BIOTITE-GARNET GNEISS		X	120	25	35	<3	
	-15% m.g. garnet porphyroblasts,	50 m	QbO	65	25	50	<3	rare chpy,
	25% biotite, rest m.g. - c.g. qtz.		Qb	45	30	50	<3	2% pyrrh.
			X	25	35	55	<3	
			X	190	30	40	<3	minor chpy, 2% py
	BIOTITE-QTZ-SERICITE-GARNET SCHIST		Qbs	355	35	45	<3	5% pyrrh, rare chpy
	-10% garnet, 30% qtz, 15% sericite,	60 m	Qbs	95	30	45	<3	3% pyrrh.
	rest biotite		X	65	40	50	<3	
			X	145	10	45	<3	2% pyrrh.
	20% garnet		Qbs	95	25	55	<3	
		70 m	X	120	30	55	<3	4% pyrrh.
	2% kyanite		X	375	25	60	<3	rare chpy 5% pyrrh
			X	340	40	80	<3	5% pyrrh.
			X	175	55	75	<3	
END OF HOLE 74 metres								
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm

DATE DRILLED: 13th Dec 1976

DRILLER: R. WULF

LOGGED: J.A. OAKES

SCALE 1:500

DRG N° AS 6410

PROJECT: SOUTH AUSTRALIA, AUSTRALIAN SELECTION (PTY) LTD
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM

HOLE N° PTM-27

LOCATION 5.2km SSW Gorella H.S. CO-ORDS. M210005 2200W.

R.L. COLLAR: 054

INCLINATION: 60°

DIRECTION: 190°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
No water	Calcrete - 20% red aeolian sand		140	20	50	<3		
	QUARTZ-BIOTITE-GARNET GNEISS		140	40	60	<3		
	-yellow & brown-H.W.-15% garnets		230	70	125	<3		H.W.
	AMPHIBOLE-BIOTITE-GARNET GNEISS		360	50	130	<3		M.W.
	QUARTZ-BIOTITE-GARNET GNEISS	10 m	160	50	190	<3		M.W.
	AMPHIBOLE-SERICITE-GARNET GNEISS		210	50	300	<3		M.W.
	QUARTZ-BIOTITE-SERICITE GNEISS		30	30	30	<3		
	-2% c.g. pink garnet porphyroblasts, 25% biotite, 15% sericite, rest m.g.-c.g. qtz - gneissic texture	20 m	150	20	55	<3		
			60	20	55	<3		
			60	30	40	<3		
			60	20	60	<3		
	M.W.		220	30	40	<3		
	S.W.		130	35	40	<3		
	5% garnets	30 m	120	30	50	<3		
			70	30	40	<3		
			180	40	60	<3		
	QUARTZ-BIOTITE-GARNET GNEISS		900	30	60	<3		minor chpy, 5% py.
	QUARTZ-BIOTITE-SERICITE GNEISS		650	40	40	<3		rare chpy, 5% py.
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS		720	20	30	<3		minor chpy, 5% py.
	QUARTZ-BIOTITE-SERICITE GNEISS	40 m	1140	30	40	<3		rare chpy.
	rest c.g. qtz 40% bte, 20% serc		190	60	40	<3		
	gneissic texture 25% bte, 15% serc		130	50	35	<3		minor pyrrhotite
	2% garnets		90	50	40	<3		
			30	40	50	<3		
	QUARTZ-BIOTITE-GARNET GNEISS	50 m	40	40	35	<3		
	-20% m.g. garnet porphyroblasts, 25% biotite, 10% sericite, rest c.g. qtz - gneissic texture		100	50	50	<3		1% tourmaline
			85	40	50	<3		2% pyrrh.
			150	40	35	<3		
			130	40	40	<3		
	VEIN QUARTZ - 30% gneiss	60 m	125	25	50	<3		minor chpy, 3% pyrrh.
	QUARTZ-BIOTITE-GARNET GNEISS		1320	40	40	<3		rare chpy, 3% pyrrh.
	-20% m.g.-c.g. garnet porphyroblasts, 25% biotite, 10% sericite, rest qtz		1760	30	30	<3		minor chpy, 3% pyrrh.
			530	20	30	<3		
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS - 10% mag, 20% garnet, 25% bte	70 m	200	30	30	<3		minor chpy, 4% pyrrh.
	BIOTITE-QTZ-MAGNETITE-KYANITE SCHIST - 10% mag, 5% kyanite, 20% qtz		630	40	50	<3		minor pyrrh.
	QUARTZ-BIOTITE-MAGNETITE GNEISS		150	35	40	<3		
	10% mag, 25% biotite, rest qtz		370	30	65	<3		5% pyrrh.
			80	40	60	<3		30% schist, 3% pyrrh.
			40	30	50	<3		
END OF HOLE 78 metres		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm

DATE DRILLED:

13th Dec 1976

DRILLER:

LOGGED J.A. OAKES

R. WULF

DRG N°

A.S. 6409

SCALE:

1:500

PROJECT: SOUTH AUSTRALIA
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM

HOLE NO PTM-26

LOCATION 5 km SSW Corella H.S. CO-ORDS: M20850 S 1800 W

R.L. COLLAR:

055

INCLINATION: 60°

DIRECTION: 190° N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
No water	Calcrete - 20% red arolian sand		C.C.	325	60	50	<3	30% gneiss
	QUARTZ-BIOTITE-SERICITE GNEISS		Qbs	100	35	25	<3	
	25% biotite, 15% sericite, rest qtz-H.W.		Qbs	160	80	60	<3	
	QUARTZ-BIOTITE-GARNET GNEISS-H.W.		QbXg	150	75	50	<3	10% garnets
	QTZ-BIOTITE-FELDSPAR GNEISS-M.W.	10 m	Qbfx	215	55	55	<3	
	QUARTZ-BIOTITE-GARNET GNEISS		QbXg	250	45	40	<3	rare malachite
	QUARTZ-BIOTITE-SERICITE-FELDSPAR		Qbs	240	35	30	<3	
	GNEISS - 15% serc, 15% fsp, 25% bte, rest qtz - M.W.		Qbsf	1050	70	50	<3	
			Qbs	240	55	35	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS -	20 m	Qbs	1300	50	40	<3	rare mal.
	rare garnets, 30% biotite, 15% sericite, rest m.g.-c.g. qtz - S.W.		Qbs	335	60	35	<3	1% mal, 5% lim.
			Qbs	175	45	30	<3	rare mal.
	QUARTZ-FELDSPAR GNEISS-very hard		Qfs	110	45	85	<3	fresh.
	-15% bte, 5% mag, 20% fsp, rest qtz		Qbs	170	85	115	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS	30 m	QbsX	560	50	35	<3	
	QUARTZ-FELDSPAR GNEISS-as above		Qfs	390	35	45	<3	
	QUARTZ-BIOTITE-SERICITE-GARNET GNEISS		QbsX	570	145	55	<3	
	-10% small garnets, 15% sericite, 25% biotite, rest c.g. qtz		Qbs	285	40	55	<3	
			QbsX	165	45	35	<3	minor pyrrh.
	QUARTZ-BIOTITE-SERICITE GNEISS	40 m	QbsX	120	45	40	<3	" "
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS		Qbs	2300	55	40	<3	1% chpy, 4% pyrrh.
	15% garnet, 10% mag, 25% bte, rest qtz.		Qbs	840	45	40	<3	0.5% chpy, 3% pyrrh.
	QUARTZ-BIOTITE-SERICITE GNEISS		QbsX	590	35	40	<3	minor chpy, 3% pyrrh.
	BIOTITE-SERICITE-QUARTZ SCHIST		bsQ	285	50	40	<3	
	-40% bte, 30% qtz & sericite	50 m	Qbs	570	40	55	<3	4% f.g. pyrrh.
	QUARTZ-BIOTITE-SERICITE GNEISS		QbsX	570	45	105	<3	rare chpy, 3% pyrrh.
	QUARTZ-BIOTITE-GARNET GNEISS		QbXg	385	135	130	<3	rare chpy, 2% pyrrh.
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS		Qbs	210	180	135	<3	minor chpy,
	-10% mag, 20% garnets, 25% bte,		QbsX	285	105	80	<3	3% pyrrh.
	BIOTITE-SERICITE-QTZ-MAGNETITE-KYANITE SCHIST-5% kyanite	60 m	bkm	710	440	95	<3	5% pyrrh,
			Qbs	520	125	85	<3	10% mag.
	QTZ-BIOTITE-FELDSPAR-KYANITE		Qbsk	140	65	70	<3	5% pyrrh.
	MAGNETITE GNEISS - 15% kyanite		Qbs	65	40	45	<3	10% mag
	END OF HOLE 66 metres	70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm.

DATE DRILLED:

12th Dec 1976

DRILLER:

LOGGED J.A. OAKES

R. WULFF

DRG NO AS 6408

SCALE

1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT KING DAM.....

HOLE NO PTM-25

R.L. COLLAR:.....

INCLINATION: 60°

DIRECTION: 190°N

LOCATION 5 km SSW Corella H.S CO-ORDS M206005 1600W

056

DEPTH METRES	LOG	DESCRIPTION	GEOCHEM				REMARKS
			Cu	Zn	Pb	Ag	
	5.45	Calcrete - 20% red aeolian sand	310	75	50	<3	minor qtz rubble
	1500	QUARTZ-BIOTITE-SERICITE-GARNET	1500	80	40	<3	
	2030	GNEISS - red & brown - H.W. - 10% garnet	2030	95	35	<3	10% limonite
	2850		2850	110	60	<3	
10 m	3400	QUARTZ-BIOTITE-FELDSPAR-SERICITE	3400	145	60	<3	minor calc-amph r.
	1550	GNEISS - rare garnets, yellow & brown	1550	105	45	<3	
	300	25% biotite, 15% fsp, --- H.W.	300	75	35	<3	
	115	10% sericite, rest qtz M.W.	115	70	30	<3	
	265		265	75	25	<3	
20 m	320	QUARTZ-BIOTITE-FELDSPAR-GARNET	320	35	20	<3	
	340	GNEISS - 15% garnet, 15% fsp, 25% bte	340	80	40	<3	
	2680	BIOTITE-GARNET-QTZ GNEISS - 35%	2680	120	45	<3	minor malachite
	1940	c.g. garnet, 20% qtz, rest bte, M.W.	1940	150	60	<3	
	2740	QUARTZ-BIOTITE-GARNET M.W.	2740	125	65	<3	1% mal, 30% vein qtz
30 m	700	GNEISS - 20% garnets, 25% bte - 10% mag	700	80	45	<3	minor mal.
	820	QTZ-BIOTITE-SERICITE GNEISS - f.	820	70	65	<3	minor chpy, 1% pyrrh
	215	QUARTZ-BIOTITE-GARNET GNEISS -	215	45	40	<3	2% pyrrh.
	1150	15% small garnets, 25% biotite,	1150	65	35	<3	4% pyrrh, rare chp,
40 m	150	10% sericite, rest m.g. - c.g. qtz.	150	55	40	<3	2% pyrrh.
	285	- m.g. disseminated sulphides	285	45	30	<3	3% m.g. pyrrh.
	230		230	55	50	<3	
	840		840	50	50	<3	rare chpy, 3% pyrrh.
	800		800	50	45	<3	minor chpy,
	610		610	95	65	<3	3% pyrrh.
50 m	680	BIOTITE-SERICITE-QTZ-KYANITE	680	85	70	<3	rare chpy, 3% py.
	360	SCHIST - 5% kyanite, 5% garnets,	360	75	55	<3	
	240	20% qtz, rest bte-seric, some chl.	240	80	50	<3	
	340		340	75	45	<3	
60 m	930	QUARTZ-BIOTITE-KYANITE GNEISS	930	55	50	<3	
	1050	- 3% kyanite, 25% biotite, rest qtz	1050	45	45	<3	
	1340	- gneissic texture	1340	60	45	<3	minor chpy,
	1080		1080	60	50	<3	3% pyrrh.
	510		510	65	70	<3	
	300		300	60	65	<3	2% pyrrh.
70 m		END OF HOLE 68 metres					
80 m							
90 m							
100 m							
110 m							

DRILL TYPE: Schramm.

DATE DRILLED:

12th Dec 1976

DRILLER:

LOGGED:

J.A. OAKES

R. WULFF

DRG NO

AS 6407

SCALE

1:500

PROJECT: SOUTH AUSTRALIA
TRINITY MINE
PROSPECT: KING DAM

AUSTRALIAN SELECTION (PTY) LTD
LOG OF PERCUSSION DRILL HOLE

HOLE NO PTM-24

LOCATION 5km SSW Corella H.S. CO-ORDS M20400S 1400W

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 190°N

057

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
	Red aeolian sand - 30% calcrete		195	50	30	<3		minor qtz rubble
	QUARTZ-BIOTITE-SERICITE-GARNET		205	50	40	<3		H.W.
	GNEISS - 10% garnet, 25% bte, 20% serc.		260	55	35	<3		
	QUARTZ-BIOTITE-FELDSPAR GNEISS		350	100	50	<3		40% vein qtz, H.W.
	- 25% bte, 85% fsp, 15% serc, rest qtz		940	135	50	<3		H.W.
	BIOTITE-SERICITE-QUARTZ SCHIST	10 m	1460	135	55	<3		M.W.
	QUARTZ-BIOTITE-GARNET GNEISS		940	125	45	<3		
	QUARTZ-BIOTITE-SERICITE GNEISS		1800	90	45	<3		minor mal.
	- rare garnets, 30% biotite, 15% sericite, rest c.g. - m.g. qtz - M.W.	20 m	1690	45	25	<3		1% mal, 50% vein qtz.
			830	45	30	<3		30% vein qtz
			920	80	45	<3		rare mal.
	QUARTZ-BIOTITE-GARNET GNEISS		1780	130	55	<3		
	QUARTZ-BIOTITE-SERICITE - M.W.		900	65	55	<3		rare chpy & chalco.
	GNEISS - rare m.g. S.W.		2550	65	60	<3		minor chpy & chalco.
	garnets, 25% biotite, 15% sericite, rest m.g. - Fr.	30 m	1510	130	100	<3		rare chpy rare pyrrh.
			1430	160	110	<3		
			920	195	160	<3		1% pyrrh.
			880	145	90	<3		
			820	100	65	<3		
			340	55	40	<3		2% pyrrh.
	QUARTZ-BIOTITE-GARNET-MAGNETITE	40 m	1030	40	20	<3		rare chpy, 3% pyrrh.
	GNEISS - 20% garnet, 10% mag, 25% bte/serc, rest qtz		870	30	20	<3		minor chpy pyrrh.
	30% bte schist		1630	35	15	<3		0.5% chpy, 5% pyrrh.
	BIOTITE-SERICITE-MAGNETITE SCHIST		6200	160	50	<3		1% chpy, 5% pyrrh.
	BIOTITE-KYANITE-MAGNETITE SCHIST	50 m	700	125	55	<3		4% c.g. pyrrh.
	QTZ-BIOTITE-KYANITE GNEISS - 10% kyanite, 25% biotite		85	60	40	<3		15% ky, 10% mag.
			130	45	25	<3		minor pyrrh.
			230	90	30	<3		
	END OF HOLE 56 metres.	60 m						
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm

DATE DRILLED:

12th Dec 1976

DRILLER:

LOGGED: J.A. OAKES

R. WULFF

DRG No

SCALE

1:500

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 190°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
	CALCRETE - 40% red aeolian sand		EC	120	145	50	<3	minor qtz rubble
	TALC-AMPHIBOLE-MICA SCHIST - H.W.		EAB	185	140	40	<3	5% limonite, H.W.
	BIOTITE-GARNET SCHIST - 20% above		bo	170	95	40	<3	" " "
	QUARTZ-BIOTITE-SERICITE GNEISS		Qb	80	55	20	<3	
	-3% small garnets, 25% biotite, --- H.W.	10 m	Qb	120	55	20	<3	
	15% sericite, minor fap, rest qtz. m.w.		Qb	770	145	40	<3	30% vein qtz
	QUARTZ-BIOTITE-GARNET GNEISS		Qb	80	60	30	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS		Qb	55	50	40	<3	M.W.
	QUARTZ-BIOTITE-GARNET-AMPHIBOLE GNEISS - M.W.	20 m	Qb	25	65	70	<3	
	QUARTZ-BIOTITE-GARNET GNEISS - 25% biotite, 20% c.g garnet, rest qtz		Qb	125	200	190	<3	30% talc-amphibole rock.
	BIOTITE-GARNET-Qtz GNEISS		Qb	355	500	150	<3	
	Qtz-Biotite-SERICITE-FELDSPAR GNEISS - 15% serc, 15% fap, 25% biotite	30 m	Qb	1150	120	115	<3	
	QUARTZ-BIOTITE-GARNET GNEISS - as above - S.W.		Qb	70	50	50	<3	30% garnets.
	BIOTITE-SERICITE-Qtz-GARNET SCHIST		Qb	200	40	45	<3	
	QUARTZ-BIOTITE-GARNET GNEISS - 25% biotite, 15% m.g - c.g pink garnet porphyroblasts, minor magnetite, 10% sericite, rest m.g to c.g qtz - gneissic texture	40 m	Qb	640	75	50	<3	
			Qb	280	75	45	<3	
			Qb	260	40	35	<3	
			Qb	90	20	30	<3	
			Qb	110	30	35	<3	
			Qb	70	25	35	<3	minor pyrrh & mag.
			Qb	75	25	25	<3	2% pyrrh, minor mag.
			Qb	150	30	35	<3	minor pyrrh.
			Qb	165	30	25	<3	1% pyrrh.
			Qb	140	45	30	<3	rare chpy, 3% pyrrh, disseminated
			Qb	400	35	35	<3	
			Qb	800	35	35	<3	
			Qb	185	30	40	<3	
			Qb	900	40	35	<3	1% chpy, 4% pyrrh.
			Qb	1650	55	35	<3	
			Qb	950	55	35	<3	0.5% chpy, 3% pyrrh.
			Qb	850	45	35	<3	
			Qb	6500	70	35	<3	0.5% chpy, 3% pyrrh.
			Qb	740	65	35	<3	1.5% chpy, 4% pyrrh.
			Qb	870	75	45	<3	0.5% chpy, 3% pyrrh.
			Qb	1090	70	45	<3	rare chpy, 2% pyrrh.
			Qb	850	40	35	<3	
			Qb	810	40	25	<3	1.5% chpy, 4% pyrrh.
			Qb	2640	40	45	<3	
			Qb	2760	45	35	<3	1% chpy, 4% pyrrh.
			Qb	3500	65	35	<3	
			Qb	2470	50	30	<3	rare chpy, 2% pyrrh.
			Qb	700	50	40	<3	
			Qb	1210	50	40	<3	2% pyrrh & bte.
			Qb	790	55	40	<3	
			Qb	305	60	45	<3	minor chpy, 2% py.
			Qb	350	60	55	<3	
	END OF HOLE 92 metres.							
		100m						
		110m						

SCALE 1:500

DIRECTION:..190°N....

SCALE 1:500

~~ORG NO A-5-6001~~

TRINITY MINE LOG OF PERCUSSION DRILL HOLE

PROSPECT: KING...D.A.M.

LOCATION 5 km SSW Corella H.S.CO-ORDS: M.19950 S 800W 060

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 190° N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
	Red aeolian sand - 15% calcrete		cs	120	60	40	<3	minor qtz rubble
	Calcrete - 15% qtz rubble		ccs	960	105	35	<3	20% schist
	BIOTITE-SERICITE-QTZ SCHIST - H.W		bsqs	660	90	55	<3	
	GARNET-BIOTITE-QTZ GNEISS - H.W		obx	1310	125	65	<3	5% limonite
	QUARTZ-BIOTITE-GARNET GNEISS - M.W		QbX	800	50	70	<3	
	GARNET-BIOTITE-QTZ GNEISS - M.W	10 m	QbX	1430	140	115	<3	
	BIOTITE-QUARTZ-SERICITE SCHIST		bqs	1430	160	85	<3	
	-M.W - 35% qtz, 20% sericite, rest bto		rs	1080	135	80	<3	
	QUARTZ-BIOTITE-GARNET GNEISS		QbX	3810	380	75	<3	1% mal, 30% actin.
	AMPHIBOLE-BIOTITE-GARNET SCHIST	20 m	AbO	19800	370	65	<3	1% mal, 5% lim.
	QUARTZ-BIOTITE-GARNET GNEISS		QbX	2130	120	75	<3	1% mal, 5% lim.
	QUARTZ-BIOTITE-SERICITE GNEISS - 25%		QbS	2160	85	80	<3	0.5% mal, 5% lim.
	biotite, 15% sericite, rest m.g.-c.g. qtz		X	220	65	60	<3	minor malachite.
	QUARTZ-BIOTITE-GARNET GNEISS		QbX	360	40	55	<3	rare malachite
	-15% m.g. garnet porphyroblasts, 25% biotite, 10% sericite, rest qtz - gneissic texture - S.W.	30 m	Qb	320	70	60	<3	
	BIOTITE-SERICITE-QUARTZ SCHIST		bsS	200	65	70	<3	
	QUARTZ-BIOTITE-GARNET GNEISS - as above - fresh.		QbX	130	45	65	<3	
	BIOTITE-QUARTZ-SERICITE SCHIST	40 m	bsS	200	75	60	<3	
	QUARTZ-BIOTITE-GARNET GNEISS - as above		QbX	610	115	65	<3	
	QUARTZ-BIOTITE-FELDSPAR GNEISS		X	245	90	65	<3	
	-30% biotite, 15% sericite, 15% feldspar	50 m	QbS	200	65	40	<3	
	rare garnets, rest m.g.-c.g. qtz - gneissic texture		X	830	60	55	<3	rare chpy, 2% pyrrh.
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS - 7% magnetite, 20% garnet, 25% biotite, rest m.g.-c.g. qtz - gneissic texture		X	180	55	40	<3	
	BIOTITE-GARNET-QUARTZ-MAG. GNEISS		X	120	40	35	<3	1% disseminated m.g. pyrrh.
	QUARTZ-BIOTITE-GARNET-MAGNETITE GNEISS - 15% mag, 20% garnet, 25% biotite, rest qtz	60 m	QbS	85	35	30	<3	
			X	90	25	40	<3	
			X	130	25	40	<3	
			X	215	30	35	<3	rare chpy.
			QbM	1070	25	40	<3	1% chpy, 3% pyrrh.
			X	305	20	20	<3	minor chpy.
			X	660	40	30	<3	1% chpy, 4% pyrrh.
			QbX	800	70	30	<3	0.5% chpy, 5% pyrrh.
			X	1120	25	15	<3	1% chpy, 5% pyrrh.
			QbM	3830	30	10	<3	
			X	2870	75	45	<3	contaminated
	END OF HOLE 70 metres	70 m						
	Hole abandoned due to high water flow - top of hole collapsed.	80 m						
		90 m						
		100 m						
		110 m						

ASSAYS

Depth	Cu %
18-20m	1.33

DRILL TYPE: Schramm

DATE DRILLED: 10th Dec 1976

DRILLER: R. WULFF

LOGGED: J.A. OAKES

SCALE: 1:500

DRG N° AS 6103

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM

HOLE N° PTM-20

R.L. COLLAR:

061

INCLINATION: 60°

DIRECTION: 190°N

LOCATION 5 km SSW Corella H.S. CO-ORDS M20050 S 800W

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
No water	CALCRETE - 20% red aeolian sand		Qc	150	45	25	<3	minor qtz rubble
	QUARTZ-BIOTITE-SERICITE-GARNET GNEISS - 25% yellow & brown, H.W.		XO	990	55	50	<3	
	biotite, 15% sericite,		XO	610	40	45	<3	
	10% c.g. garnets as porphyroblasts, M.W.	10 m	Qb	790	50	45	<3	
	rest m.g. - c.g. qtz.		XO	380	65	50	<3	
			XO	560	65	40	<3	
			XO	990	90	60	<3	
	BIOTITE-GARNET-QUARTZ SCHIST		bos	560	80	45	<3	20% garnets
	BIOTITE-SERICITE-QTZ-GARNET SCHIST		bos	110	55	35	<3	
	QTZ-BIOTITE-FELDSPAR-GARN. GNEISS	20 m	QbX	335	35	40	<3	minor malachite
	QUARTZ-BIOTITE-FELDSPAR GNEISS		XO	1630	50	40	<3	25% vein qtz
	-2% c.g. garnets, 25% biotite, 15% feldspar, 10% sericite, rest m.g. - c.g. qtz		Qb	880	30	35	<3	
	-gneissic texture - M.W. - S.W.		XO	270	35	25	<3	
			XO	185	40	25	<3	
			XO	155	25	30	<3	
	QTZ-BIOTITE-GARNET GNEISS - 20% c.g. garnets, 25% bto, rest qtz - fresh	30 m	Qb	840	30	30	<3	minor pyrrh & chpy
			QbX	3170	45	25	<3	minor chpy & chalco.
	QUARTZ-BIOTITE-GARNET-MAGNETITE GNEISS - 10% magnetite, 20% garnets as c.g. porphyroblasts,	40 m	XO	550	20	20	<3	minor m.g. disseminated chpy, 2% pyrrh.
	25% bto/serc, rest m.g. 20% c.g. qtz - gneissic texture m.g. disseminated sulphides.		Qb	650	35	30	<3	
			XO	260	40	30	<3	
	QTZ-MAGNETITE GNEISS, 20% mag.	50 m	Qb	270	65	55	<3	0.5% chpy, 5% pyrrh.
	BIOTITE-QUARTZ-GARNET SCHIST - 15% garnet, 30% qtz rest biotite		Qb	2200	25	15	<3	1% chpy, 5% pyrrh.
	QUARTZ-BIOTITE-SERICITE GNEISS		XO	7000	35	10	<3	
	BIOTITE-SERICITE-KYANITE-QTZ SCHIST		Qb	2840	30	10	<3	
	20% kyanite, 25% sericite, 10% qtz.	60 m	Qb	2000	20	10	<3	1% chpy, 2% pyrrh.
			bos	1170	100	35	<3	rare chpy, 5% c.g. pyrrh.
			QbX	1090	95	55	<3	
			Qb	115	50	40	<3	30% schist
			bos	100	60	30	<3	minor pyrrh.
			Qb	110	45	25	<3	
END OF HOLE 60 metres								
		70 m						
		80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm

DATE DRILLED:

10th Dec 1976

DRILLER:

LOGGED: J.A. OAKES

R. WULF

DRG. N°

AS 6402

SCALE

1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM
LOCATION: 5 km SSW Corella H.S. CO-ORDS. M199005 1000 W

HOLE NO PTM-19
P.L. COLLAR: 062
INCLINATION: 60°
DIRECTION: 190° N

METER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	Red aeolian sand - 30% calcrete		XXX	65	35	40	<3	10% qtz rubble
	QUARTZ-FELSPAR-AMPHIBOLE GNEISS		XXX	160	50	110	<3	
	-30% plagioclase, 20% hornblende, 15% biotite-sericite, rest qtz - H.W. massive - gneissic	10 m	QFA	180	70	70	<3	
			XXX	60	60	105	<3	
			XXX	70	35	70	<3	
	QUARTZ-BIOTITE-FELSPAR-AMPHIBOLE GNEISS - 30% bto, 30% fsp, 20% hble		QBA	140	30	55	<3	20% bto schist.
	BIOTITE-SERICITE-Qtz-GARNET SCHIST		XXX	60	30	40	<3	
	AMPHIBOLE-TALC-SERICITE-GARNET	20 m	XXX	80	35	50	<3	
	GNEISS - black - S.W. - 20% talc - CO ₃ , 15% sericite, 10% c.g. garnets, minor mag, rest hornblende		brss	165	40	70	<3	20% amphibolite.
	BIOTITE-GARNET-AMPHIBOLE SCHIST		XXX	90	40	200	<3	
	FINE GRAINED AMPHIBOLITE - black - hard - fresh - 30% plagioclase, 15% qtz, rest hornblende, massive	30 m	AEs	105	50	200	<3	
	QTZ-BIOTITE-FELSPAR-SERICITE GNEISS - 30% biotite, 15% fsp, 10% sericite, rest m.g. - c.g. qtz.		XXX	100	45	230	<3	
	QTZ-BIOTITE-GARNET GNEISS		XXX	115	60	200	<3	
	GARNET-BIOTITE-GNEISS		XXX	110	60	170	<3	
	BIOTITE-GARNET-Qtz-GNEISS - 20% garnet, 20% qtz, rest biotite	40 m	Qbfs	380	50	185	<3	
	QTZ-BIOTITE-GARNET GNEISS		AA	130	50	180	<3	1% pyrrh, some epidote.
	GARNET-BIOTITE-GNEISS		AA	520	40	180	<3	
	BIOTITE-GARNET-Qtz-GNEISS - 20% garnet, 20% qtz, rest biotite		XXX	130	50	190	<3	
	QTZ-BIOTITE-GARNET GNEISS		Qbf	130	50	200	<3	minor pyrrhotite
	GARNET-BIOTITE-GNEISS		XXX	50	30	70	<3	
	BIOTITE-GARNET-Qtz-GNEISS - 20% garnet, 20% qtz, rest biotite	50 m	QbX	90	50	85	<3	
	QTZ-BIOTITE-GARNET GNEISS		QbX	350	70	130	<3	15% garnet.
	GARNET-BIOTITE-GNEISS		QbX	200	60	170	<3	60% garnet
	BIOTITE-GARNET-Qtz-GNEISS - 20% garnet, 20% qtz, rest biotite		QbX	640	60	160	<3	
	QTZ-BIOTITE-GARNET GNEISS		QbX	340	50	135	<3	
	GARNET-BIOTITE-GNEISS		QbX	390	50	100	<3	minor chpy.
	BIOTITE-GARNET-Qtz-GNEISS - 20% garnet, 20% qtz, rest biotite		QbX	460	50	130	<3	
	QTZ-BIOTITE-GARNET GNEISS		QbX	200	50	125	<3	
	GARNET-BIOTITE-GNEISS		QbX	320	50	115	<3	
	BIOTITE-GARNET-Qtz-GNEISS - 20% garnet, 20% qtz, rest biotite	60 m	QbX	250	60	170	<3	rare chpy, 2% pyrrh.
	QTZ-BIOTITE-GARNET GNEISS		QbX	185	80	120	<3	minor chpy.
	GARNET-BIOTITE-GNEISS		QbX	310	80	150	<3	
	BIOTITE-GARNET-Qtz-GNEISS - 20% garnet, 20% qtz, rest biotite		QbX	355	55	120	<3	rare chpy, 2% pyrrh
	QTZ-BIOTITE-GARNET GNEISS		QbX	800	90	130	<3	
	GARNET-BIOTITE-GNEISS		QbX	860	100	120	<3	minor chpy.
	BIOTITE-GARNET-Qtz-GNEISS - 20% garnet, 20% qtz, rest biotite	70 m	QbX	1140	70	140	<3	
	QTZ-BIOTITE-GARNET GNEISS as above		QbX	560	75	105	<3	
	END OF HOLE 74 m. Abandoned due to extremely slow rate of penetration.	80 m						
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm.

DATE DRILLED:

5th Dec 1976

DRILLER:

R. WULFF

LOGGED J.A. OAKES

SCALE

1:500

DRG NO

AS 6322

PROJECT: SOUTH AUSTRALIA
 TRINITY MINE LOG OF PERCUSSION DRILL HOLE
 PROSPECT: KING DAM....
 LOCATION 5km SSW Gorella H.S. CO-ORDS: M20150 S 1000 W

AUSTRALIAN SELECTION (PTY) LTD

HOLE N° PTM-18

R.L. COLLAR.....

063

INCLINATION: 60°

DIRECTION: 190°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	CALCRETE - 30% red aeolian sand		550	100	30	55	<3	15% qtz rubble
	BIOTITE-SERICITE-QUARTZ SCHIST		650	345	70	65	<3	10% vein qtz
	-brown & yellow - H.W.		590	160	120	<3		
	QTZ-BIOTITE-GARNET GNEISS - H.W.		Qxb	630	95	90	<3	5% limonite
	QTZ-BIOTITE-SERICITE GNEISS - M.W.	10 m	QbsX	640	160	70	<3	
	QTZ-BIOTITE-GARNET GNEISS -		XO	640	270	140	<3	
	25% biotite, 15% c.g. garnet, 10% sericite, rest c.g. qtz - gneissic.		QbsX	210	115	130	<3	
	BIOTITE-SERICITE-QUARTZ SCHIST		XO	240	85	140	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS -	20 m	bs	550	80	270	<3	30% vein qtz, 15% schist
	white & green - M.W. - 30% biotite, 20% sericite, minor fsp, rest m.g. - c.g. qtz - gneissic texture.		XX	100	80	140	<3	
	QUARTZ-FELDSPAR GNEISS - white -		Qbs	90	70	150	<3	
	very hard - 15% biotite, 20% fsp, minor sericite; rest c.g. qtz - s.w.		XX	50	50	55	<3	
	BIOTITE-QUARTZ-SERICITE SCHIST - S.W.	30 m	XX	55	40	25	<3	
	QUARTZ-BIOTITE-SERICITE-GARNET GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture		QF	160	90	120	<3	
	10% c.g. garnet porphyroblasts		XX	80	50	35	<3	
	BIOTITE-QUARTZ-SERICITE GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture	40 m	bs	25	50	140	<3	40% above gneiss
	QUARTZ-BIOTITE-SERICITE-GARNET GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture		XX	130	50	60	<3	
	BIOTITE-QUARTZ-SERICITE-GARNET GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture		Qbs	1620	60	110	<3	1% disseminated pyrrhotite
	BIOTITE-QUARTZ-SERICITE-GARNET GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture		XX	370	55	50	<3	
	BIOTITE-QUARTZ-SERICITE-GARNET GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture		XX	80	40	30	<3	
	BIOTITE-QUARTZ-SERICITE-GARNET GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture		Qbs	170	35	30	<3	2% pyrrh.
	BIOTITE-QUARTZ-SERICITE-GARNET GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture		XX	150	45	30	<3	
	BIOTITE-QUARTZ-SERICITE-GARNET GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture		XO	330	60	50	<3	30% schist
	BIOTITE-QUARTZ-SERICITE-GARNET GNEISS - 5% garnets, 25% biotite, 15% sericite, rest m.g. - c.g. qtz - gneissic texture	50 m	bs	740	60	50	<3	1% pyrrh.
	QUARTZ-BIOTITE-GARNET-MAGNETITE GNEISS - 25% bte, 15% c.g. garnet, 15% magnetite, rest qtz		Qbm	520	40	40	<3	minor chpy.
	QUARTZ-BIOTITE-KYANITE GNEISS		OX	1820	40	35	<3	1% chpy, 4% pyrrh.
	BIOTITE-SERICITE-KYANITE-QUARTZ SCHIST - 20% ky, 20% qtz, rest bte, serc.		XX	1390	50	70	<3	dissems.
	QUARTZ-FELDSPAR-BIOTITE-KYANITE GNEISS		QKX	210	55	60	<3	0.5% chpy, " "
	QUARTZ-BIOTITE-CHLORITE-MAGNETITE GNEISS - 20% bte, 15% chl, rest qtz	60 m	bsk	60	50	70	<3	2% pyrrh., 5% mag.
	QUARTZ-BIOTITE-CHLORITE-MAGNETITE GNEISS - 20% bte, 15% chl, rest qtz		bs	20	40	40	<3	4% pyrrh.
	QUARTZ-BIOTITE-CHLORITE-MAGNETITE GNEISS - 20% bte, 15% chl, rest qtz		QKX	40	50	25	<3	10% magnetite minor pyrrh.
	QUARTZ-BIOTITE-CHLORITE-MAGNETITE GNEISS - 20% bte, 15% chl, rest qtz		QKX	20	50	75	<3	
	QUARTZ-BIOTITE-CHLORITE-MAGNETITE GNEISS - 20% bte, 15% chl, rest qtz		XX	20	50	50	<3	
	END OF HOLE 68 metres	70 m						
		80 m						
		90 m						
		100 m						
		110 m						

ASSAYS

Depth	Cu %	Zn %	Pb %		
52-54m	0.14	±0.01	±0.02		
56m	0.06	±0.01	±0.02		

DRILL TYPE: Schramm

DATE DRILLED:

4-5th Dec 1976

DRILLER:

R. WULFF

LOGGED J.A. OAKES

SCALE

1:500

DRG N°

AJ 6391

PROJECT: SOUTH AUSTRIAN
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM
LOCATION: 5 km SSW Corella H.S. CO-ORDS: M202005 1200 W54

HOLE N. 111-11
R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 190°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Zn	Pb	Ag	
	CALCRETE - 30% red aeolian sand		66	75	55	35	<3	minor qtz rubble
	BIOTITE - GARNET - QUARTZ GNEISS H.W.		60X	375	125	60	<3	20% c.g. garnets
	BIOTITE - SERICITE - QUARTZ SCHIST H.W.		bsf	960	120	50	<3	
	AMPHIBOLITE - 40% hbl, 20% bte, 10% gne		Ab	2500	600	40	<3	H.W.
	QUARTZ - FELDSPAR - BIOTITE - GARNET GNEISS - 20% feldspar, 20% biotite, 5% garnet - gneissic texture, rest c.g. qtz	10 m	XX	1800	185	70	<3	H.W.
			Qfb	1540	100	35	<3	M.W.
			XX	2600	115	50	<3	
	BIOTITE - SERICITE - QUARTZ SCHIST		bsf	1960	140	55	<3	
	GARNET - TALC - QTZ - GNEISS		DEX	1500	115	80	<3	
	BIOTITE - SERICITE - FELDSPAR - QTZ GNEISS - 30% bte & serc, 20% fsp & qtz	20 m	bsf	2570	140	70	<3	M.W.
			bsf	2400	90	70	<3	
	QTZ - BIOTITE - GARNET GNEISS		Qxb	800	80	60	<3	
	GARNET - QTZ - BIOTITE GNEISS - 50% c.g. garnet, 30% qtz, 15% bte, 5% mag. m.v.		OX	2150	95	50	<3	1% malachite
			XX	870	90	50	<3	minor malachite
	QUARTZ - BIOTITE - GARNET GNEISS	30 m	XX	670	105	70	<3	
	- 30% biotite, 10% c.g. garnet porphyroblasts, 10% fsp, rest c.g. qtz - gneissic texture		XX	610	115	75	<3	1% m.g. disseminated pyrrhotite
	- 5.W. 20% feldspar		Qb	260	100	65	<3	
			XX	180	75	35	<3	
			XX	165	90	55	<3	
			XX	225	165	60	<3	
	BIOTITE - QUARTZ - GARNET SCHIST - - lepidoblastic texture	40 m	bsf	115	120	50	<3	1% pyrrh.
	QTZ - BIOTITE - GARNET GNEISS		bsf	850	110	50	<3	minor chpy, 1% pyrrh.
	- 40% f.g. qtz, 10% m.g. pink garnet porphyroblasts, rest biotite - green - fresh.	50 m	XX	105	80	40	<3	
			bsf	235	90	45	<3	1% disseminated pyrrhotite
			bsf	125	35	25	<3	
			bsf	100	30	30	<3	
			bsf	130	45	25	<3	
	QUARTZ - BIOTITE - GARNET GNEISS		OX	215	55	35	<3	2% disseminated m.g. pyrrhotite
	- 25% biotite, 20% pink garnet as c.g. porphyroblasts, rest c.g. qtz, - gneissic texture - hard - fresh.	60 m	Qb	180	50	40	<3	
			OX	175	55	30	<3	
			OX	730	65	35	<3	minor chpy, 2% pyrrh.
	QTZ - BIOTITE - GARNET - MAGNETITE GNEISS - 20% c.g. porphyroblasts of garnet, 25% bte, 10% sericite, 10% f.g. - m.g. magnetite, m.g. - c.g. disseminated sulphides, rest c.g. qtz. - gneissic texture		OX	1020	45	30	<3	0.5% chpy, 3% pyrrh.
		70 m	OX	960	40	30	<3	
			Qbm	2110	30	30	<3	1.5% chpy, 4% pyrrhotite.
			OX	1680	35	25	<3	
			OX	1940	45	35	<3	
			OX	2200	70	35	<3	2% chpy, 4% pyrrh.
			OX	2660	60	30	<3	1.5% chpy, " "
	QTZ - BIOTITE - GARNET - MAGNETITE - Kyanite GNEISS - 10% kyanite, 15% mag, 20% garnet, rest bte & qtz	80 m	OX	2170	80	25	<3	2% chpy, " "
			Qbm	1930	65	30	<3	1% chpy, 3% pyrrh.
			OX	890	50	25	<3	
			OX	690	55	25	<3	0.5% chpy, 2% pyrrh.
	BIOTITE - QTZ - SERICITE - Kyanite SCHIST - 30% bte, qtz & serc, 10% blue kyanite	90 m	bsf	690	45	30	<3	rare chpy, minor pyrrh.
			bsf	550	45	20	<3	
			bsf	220	60	25	<3	

END OF HOLE 92 metres

ASSAYS

Depth	Cu %	Zn %	Pb %
40-42m	0.03	0.01	0.02
48-70m	0.21	0.01	0.02
72m	0.14	0.01	0.02
74m	0.15	0.01	0.02
76m	0.13	0.01	0.02
78m	0.15	0.01	0.02
80m	0.14	0.01	0.02
82m	0.12	0.01	0.02
84m	0.04	0.01	0.02

DRILL TYPE: Schramm

DATE DRILLED:

3rd-4th Dec 1976

DRILLER:

LOGGED: J.A. OAKES

R. WULFF

SCALE

1:500

DRG N° 15 6390

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM.....

HOLE N° PTM-16

LOCATION 5 km SSW Corella H.S. CO-ORDS: M203005 1200W

R.L. COLLAR:.....

065 INCLINATION: 60°

DIRECTION: 190°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	CALCRETE - 30% red aeolian sand		ccc	120	65	135	<3	
	QUARTZ - BIOTITE - SERICITE GNEISS		xx	255	140	490	<3	
	-30% biotite, 15% sericite, brown, minor fsp, rest c.g. qtz, H.W.		xx	200	110	140	<3	
	-gneissic texture.		Qbs	170	55	140	<3	
		10 m	xx	520	50	100	<3	
			xx	175	50	100	<3	
			xx	95	55	95	<3	
	QUARTZ - BIOTITE - FELDSPAR - SERICITE GNEISS -30% biotite, 15% pink orthoclase, 10% sericite, rest m.g. - c.g. qtz - gneissic texture		xx	200	55	105	<3	
		20 m	xx	65	35	85	<3	
			Qbs	180	40	85	<3	
			xx	95	35	60	<3	
			xx	65	30	55	<3	
			xx	160	25	50	<3	
	QUARTZ - BIOTITE - GARNET GNEISS -25% bte, 15% garnet porphyroblast, rest qtz		xx	120	35	75	<3	
	BIOTITE - GARNET - QTZ GNEISS -5% bte	30 m	Qbs	275	35	60	<3	
	QUARTZ - BIOTITE - GARNET GNEISS		QxO	3380	30	60	<3	1% chpy, minor chalco.
	QUARTZ - GARNET - BIOTITE - MAGNETITE GNEISS -30% c.g. garnets, 25% bte, 15% magnetite, rest c.g. qtz.		QxO	980	30	65	<3	minor chpy.
		40 m	QxO	2380	20	55	<3	1% chpy, 0.5% chalco, disseminated.
			Qbs	2040	25	65	<3	
			Qbs	1790	20	55	<3	1% chpy, 4% pyrrh.
			xx	1490	15	60	<3	
	QTZ - BIOTITE - FELDSPAR GNEISS -25% bte, 15% fsp, 10% serc, rest qtz.		Qbf	1380	45	105	<3	
	BIOTITE - SERICITE - QTZ - KYANITE SCHIST		xx	125	35	65	<3	
	QTZ - BIOTITE - KYANITE - GNEISS -25% bte, 15% kyanite, rest qtz	50 m	Qbs	75	40	50	<3	
	BIOTITE - SERICITE - QTZ - KYANITE		Qbk	40	35	65	<3	
			xx	25	25	65	<3	
	SCHIST -15% blue kyanite, 30% bte, 30% serc, rest f.g. qtz		bsqh	25	25	60	<3	
	BIOTITE - KYANITE - QTZ GNEISS	60 m	bsqh	45	30	55	<3	
	BIOTITE - SERICITE - QTZ - KYANITE		bsqh	170	30	60	<3	
	SCHIST - as above		bsqh	75	25	60	<3	
	QTZ - BIOTITE - KYANITE - MAG GNEISS		bsqh	35	25	60	<3	
			bsqh	30	30	110	<3	
			bsqh	20	30	60	<3	
			Qbm	25	35	55	<3	10% magnetite
	END OF HOLE 68 metres	70 m						
		80 m						
		90 m						
		100 m						
		110 m						

ASSAYS

Depth	Cu%	Zn%	Pb%
30-32m	0.18	0.01	<0.02
32m	0.07	0.01	<0.02
34m	0.08	0.01	<0.02
38m	0.57	0.01	<0.02
40m	0.16	0.01	<0.02
42m	0.18	0.01	<0.02

DRILL TYPE: Schramm

DATE DRILLED

3rd Dec 1976

DRILLER

LOGGED J.A. OAKES

R. WULF

DRG. N° 15 6389

SCALE

1:500

PROJECT: SOUTH AUSTRALIA
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM

LOCATION 5 km SSW Corella H.S CO-ORDS: M20400S 1200W

HOLE NO: PIM-15

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 190°N

066

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	Red aeolian sand - 40% calcrete		C.C.	600	25	35	<3	minor qtz rubble
	QUARTZ-BIOTITE-SERICITE GNEISS -		X	1360	25	40	<3	
	30% bte, 15% serc, rest m.g - c.g. qtz, H.W.		X	6000	20	40	<3	1% mal, 5% lim.
	QTZ-BIOTITE-GARNET-MAGNETITE		X	2380	20	35	<3	2% mal, minor chpy.
	GNEISS - 30% bte, 10% garnet, 5% mag.	10 m	Qbm	2400	10	20	<3	2% mal, 25% vein qtz
	10% sericite, rest c.g. qtz - H.W.		X	2100	50	90	<3	4% mal, 5% lim
	BIOTITE-QUARTZ-GARNET GNEISS		X	1650	50	60	<3	1% mal, 5% lim.
	QUARTZ-BIOTITE-FELDSPAR GNEISS		X	540	30	40	<3	
	-30% biotite, 15% feldspar, 10% sericite	20 m	Qbf	320	20	30	<3	
	minor garnet, rest c.g. qtz - M.W.		X	150	20	45	<3	
	BIOTITE-SERICITE-KYANITE SCHIST		X	70	20	40	<3	
	QTZ-BIOTITE-KYANITE GNEISS -		bss	130	20	75	<3	
	-30% biotite, 15% sericite, 10% fapr,	30 m	X	60	15	20	<3	
	5% blue kyanite		Qbf	65	15	20	<3	
	gneissic texture, rest c.g. qtz - M.W.		X	105	15	20	<3	20% schist
	BIOTITE-SERICITE-KYANITE-QTZ SCHIST		X	100	20	30	<3	
	-30% bte, 30% serc, 20% blue kyanite		bss	115	20	20	<3	1% pyrrh,
	20% f.g. qtz - lepidoblastic. - S.W. Fr.		X	70	20	40	<3	often limonitized.
	BIOTITE-FELDSPAR-KYANITE GNEISS	40 m	X	70	15	40	<3	
	VEIN QUARTZ - 15% bte, 15% ky.		bth	60	20	35	<3	30% kyanite
	QUARTZ-BIOTITE-MAGNETITE GNEISS		X	30	10	50	<3	10% fapr.
	-20% biotite, 10% magnetite, 10% sericite		X	80	15	40	<3	2% disseminated
	minor fapr, rest m.g - c.g. qtz -	50 m	Qbm	80	20	40	<3	pyrrh.
	gneissic texture		X	50	20	30	<3	minor mal contam.
	BIOTITE-QTZ-MAGNETITE SCHIST		X	50	20	40	<3	2% pyrrh.
	QUARTZ-BIOTITE-MAGNETITE GNEISS		X	120	20	40	<3	
	-15% magnetite, 20% biotite, 10% sericite,	60 m	X	100	25	50	<3	5% disseminated
	minor fapr, rest qtz		Qbm	55	20	50	<3	m.g - c.g.
	CHLORITE-SERICITE-BIOTITE-QTZ -		X	120	25	50	<3	pyrrhotite
	MAGNETITE SCHIST - 30% chl, 20% serc,		X	70	30	30	<3	
	20% bte, 15% qtz, 15% mag.		X	95	25	40	<3	
	QUARTZ-BIOTITE-MAGNETITE GNEISS	70 m	X	30	25	40	<3	1% pyrrh.
	-15% biotite, 15% mag, rare garnet,		csbn	170	25	80	<3	minor mal contam.
	rest qtz - gneissic texture.		X	200	30	90	<3	
	QUARTZ-BIOTITE-FELDSPAR-		X	200	30	35	<3	5% pyrrh.
	MAGNETITE GNEISS - 20%		X	60	20	30	<3	
	biotite, 15% feldspar, 15%	80 m	X	30	30	35	<3	
	magnetite, rare c.g. garnets,		Qbf	80	20	20	<3	3% disseminated
	rest c.g. qtz, - gneissic		X	35	40	130	<3	pyrrhotite,
	texture.		X	70	40	140	<3	minor malachite
	QUARTZ-MAGNETITE-GNEISS.	90 m	X	30	35	75	<3	contamination.
	END OF HOLE 92 metres		X	30	40	70	<3	
		100 m	X	20	35	35	<3	5% pyrrh, 30% mag.
		110 m	X	70	40	35	<3	

DRILL TYPE: Schramm

DATE DRILLED:

2nd-3rd Dec 1976

DRILLER:

LOGGED: J.A. OAKES

R. WULFF

DRG NO: A5. 6388

SCALE

1:500

PROJECT: SOUTH AUSTRALIA
TRINITY MINE
PROSPECT: KING DAM

AUSTRALIAN SELECTION (PTY) LTD
LOG OF PERCUSSION DRILL HOLE

HOLE NO PTM-14

R.L. COLLAR: 067
INCLINATION: 60°
DIRECTION: 190°N

LOCATION 5 km SSW Cornella H.S. CO-ORDS: M19800 S 600 W

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	Red aeolian sand - 30% calcrete		5.5	80	30	40	<3	15% qtz rubble
	QTZ-BIOTITE-FDPR-SERC GNEISS		X/X	150	60	45	<3	H.W.
	BIOTITE-SERICITE-QTZ-GARNET SCHIST		SSS	1040	100	130	<3	
	BIOTITE-SERICITE-FELDSPAR-QUARTZ		bssQ	890	80	100	<3	
	SCHIST - 30% bte & serc, 20% fdpr & qtz		SSS	750	70	80	<3	
	BIOTITE-GARNET-QTZ GNEISS - 40% bte, 35% c.g. garnet, rest c.g. qtz	10 m	X/X	2140	50	145	<3	5% dissem limonite after sulphide
	BIOTITE-SERICITE-QTZ-GARNET SCHIST		bssQ	3680	60	145	<3	5% lim.
	QTZ-FDPR-BIOTITE-SERC GNEISS		SSS	1630	55	60	<3	
	YFM QUARTZ-MILKY - c.g. - F.W.		X/X	1170	60	110	<3	
	QUARTZ-BIOTITE-SERC-GARNET GNEISS	20 m	-G-	280	30	40	<3	30% gneiss
	-30% bte, 10% serc, 5% garnet, rest qtz		Qbs	860	50	70	<3	10% vein qtz.
	BIOTITE-SERICITE-QTZ-GARNET SCHIST		X/X	190	50	50	<3	
	QUARTZ-FELDSPAR-BIOTITE-GARNET		SSS	260	60	50	<3	
	GNEISS - 30% fdpr, 25% bte, 5% garnet, rest qtz - M.W.	30 m	X/X	270	50	55	<3	M.W.
	BIOTITE-SERICITE-QTZ-GARNET SCHIST		Qfb	280	40	30	<3	
	QTZ-FELDSPAR-BIOTITE - GNEISS		X/X	370	35	30	<3	M.W.
	BIOTITE-SERICITE-QTZ-GARNET SCHIST		SSS	540	30	20	<3	S.W. minor pyrrh.
	-30% bte, 30% serc, 25% qtz, 5% small pink garnet porphyroblasts	40 m	X/X	180	30	30	<3	
	BIOTITE-GARNET-SERICITE-QTZ SCHIST		bssQ	150	30	40	<3	
	-40% biotite, 25% garnet, 20% qtz, rest sericite, -fresh		SSS	700	40	30	<3	
	QUARTZ-BIOTITE-GARNET GNEISS	50 m	SSS	325	30	45	<3	
	-25% biotite, 10% c.g. garnet porphyroblasts, 10% serc, rest c.g. qtz, gneissic texture - fresh		SSS	225	30	50	<3	
	QUARTZ-BIOTITE-FELDSPAR GARNET		bssQ	1130	25	30	<3	
	GNEISS - 30% biotite, 20% fdpr, 10% c.g. garnet, rest qtz	60 m	SSS	200	30	20	<3	
	-disseminated mg-c.g. 5% magnetite		SSS	580	30	20	<3	1% pyrrh, rare chpy, dissem
	QUARTZ-BIOTITE-GARNET GNEISS		X/X	760	30	15	<3	2% pyrrh, minor chpy, dissem
	-black - fresh - very hard - 35% bte, 20% c.g. pink garnet porphyroblasts, 10% fdpr, rest c.g. qtz, minor mag. gneissic texture	80 m	X/X	1000	40	35	<3	0.5% chpy, 3% py.
	END OF HOLE 86 metres		X/X	610	40	35	<3	1% chpy, 4% pyrrh, disseminated.
		90 m	X/X	3680	70	130	<3	1.5% chpy 5% pyrrh.
			X/X	3320	40	60	<3	1% chpy, 4% pyrrh, disseminated.
			Qbs	2980	40	50	<3	1.5% chpy 5% pyrrh.
			X/X	2000	40	45	<3	1% chpy 5% pyrrh.
			m D	2700	40	45	<3	1.5% chpy
			X/X	2500	40	50	<3	1% chpy, 4% pyrrh.
		70 m	X/X	2900	60	75	<3	0.5% chpy.
			Qbs	2130	50	60	<3	0.5% chpy, 3% pyrrh.
			SSS	1620	50	55	<3	minor chpy & 2% pyrrh. contam?
			X/X	2200	50	55	<3	
			X/X	1730	50	50	<3	
			X/X	1000	40	35	<3	
		80 m	Qbs	440	60	40	<3	
			X/X	460	55	45	<3	
			X/X	390	65	65	<3	
			X/X	380	50	40	<3	
		90 m						
		100 m						
		110 m						

DRILL TYPE: Schramm
DATE DRILLED: 1st Dec 1976
DRILLER: R. WULFF
LOGGED: J.A. OAKES
DRG NO: AS 6387

SCALE 1:500

HOLE N° PTM-13

R.L. COLLAR :

INCLINATION: 60°

DIRECTION: 190°N

LOCATION 5 km SSW Corella H.S CO-ORDS: M19900 S 600 W.

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	Red aeolian sands - m.g., clayey.			155	40	40	<3	30% calcrete
	BIOTITE-QUARTZ-SERICITE-GARNET		1011	450	40	40	<3	
	SCHIST - 40% biotite, 30% brown, H.W.		1011	400	40	40	<3	
	m.g. qtz, 25% sericite		bqs	820	30	30	<3	
	5% small pink garnets M.W.	10 m	1011	710	30	40	<3	10% garnets
			1011	740	40	50	<3	
	QTZ-BIOTITE-FOPR-GARNET GNEISS		XQX	1920	45	50	<3	1% mal, 5% lim.
	BIOTITE-SERICITE-GARNET-QTZ SCHIST		OSS	340	50	60	<3	
	-30% biotite, 30% sericite, 20% garnet	20 m	bssQ	240	40	50	<3	
	porphyroblasts, rest m.g. qtz.		SSO	280	20	40	<3	
	QUARTZ-BIOTITE-FELDSPAR-GARNET		XOX	690	40	60	<3	
	GNEISS - 25% biotite, 20% orthoclase,		Xbf	350	30	90	<3	
	10% c.g. pink garnet porphyroblasts,		Xof	220	30	30	<3	
	rest c.g. qtz - some vein qtz-m.w.	30 m	XVO	470	30	40	<3	
			XVO	320	40	50	<3	30% bte schist
	QUARTZ-BIOTITE-GARNET GNEISS -		XOX	4500	20	30	<3	minor chpy +
	20% bte, 10% c.g. garnet, 5% magnetite	30 m	Qbm	1450	40	40	<3	& pyrrh. vein qt
	QUARTZ-BIOTITE-GARNET GNEISS		XVO	2600	50	40	<3	1% chpy, minor chalco
	30% bte, 10% c.g. garnet, rest qtz		XBO	2450	30	30	<3	2% chpy, 3% pyrrh.
	QTZ-BIOTITE-FELDSPAR-GARNET GNEISS	40 m	XOX	940	30	30	<3	0.5% chpy, minor py.
	-20% bte, 20% fopr, 10% garnet, rest qtz		Qbf	440	30	30	<3	rare chpy & chalco
	BIOTITE-GARNET-QTZ-MAGNETITE		XDO	1530	40	30	<3	1% chpy, 4% pyrrh
	GNEISS - 30% bte, 30% c.g. garnet		bqm	3370	40	20	<3	1.5% chpy, 6% pyrrh
	10% magnetite, 20% qtz, rest sulphide		XVO	3000	50	30	<3	disseminated.
	QTZ-BTE-GARNET-MAG. GNEISS	50 m	XOX	70	70	40	<3	minor pyrrh.
	BIOTITE-SERICITE-QTZ SCHIST - 50%		bssQ	40	60	90	<3	
	bte, 30% sere, 20% qtz, minor garnet		SSO	170	50	120	<3	
	→ QTZ-BTE-GARNET-MAG GNEISS		XOX	170	50	40	<3	minor pyrrh.
	QUARTZ-BIOTITE-FELDSPAR-GARNET		XOF	120	60	50	<3	minor pyrrh.
	GNEISS - 20% bte, 20% fopr, 5% garnet	60 m	XZF	190	60	40	<3	
	QUARTZ-BIOTITE-SERICITE GNEISS		Qbs	80	50	40	<3	rare pyrrh.
			XZF	70	50	30	<3	
	QUARTZ-BIOTITE-FELDSPAR GNEISS		Qbf	210	40	40	<3	minor contam.
	as before		XVF	180	40	40	<3	
	END OF HOLE 68 metres	70 m						
		80 m						
		90 m						
	ASSAYS							
	Depth Co% Cu% Zn% Pb% Ag (ppm)							
	32-34m <0.01 0.12 <0.01 <0.02 <2	100 m						
	36m <0.01 0.24 <0.01 <0.02 <2							
	38m <0.01 0.23 <0.01 <0.02 <2							
	40m <0.01 0.07 <0.01 <0.02 <2							
	42m <0.01 0.05 <0.01 <0.02 <2							
	44m <0.01 0.13 <0.01 <0.02 <2	110 m						
	46m <0.01 0.29 <0.01 <0.02 <2							
	48m <0.01 0.14 <0.01 <0.02 <2							

DRILL TYPE: Schramm

DATE DRILLED: 11/11/11

1st Dec 1976

DRILLER.

LOGGED: J.A. OAKES

R. WULFF

DRG N° A.S. 6386

SCALE

1:500

PROJECT: SOUTH AUSTRALIA
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM

LOCATION: 5 km SSW Orella H.S. CO-ORDS: M196000 200W

HOLE NO: P1M-12

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 190°N

069

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
No water	Red aeolian sand - 30% calcrete.		70	30	50	<3		30% schist & qtz rubble
	BIOTITE-SERICITE-QUARTZ SCHIST -		120	30	40	<3		
	brown & white - H.W. - soft - 40% biotite		215	35	60	<3		
	30% sericite, 30% f.g. - m.g. qtz -		160	30	60	<3		
	lepidoblastic texture.		1190	40	140	<3		
	QUARTZ-BIOTITE-SERICITE GNEISS	10 m	1050	50	145	<3		brown, H.W.
	25% biotite, 15% sericite, rest m.g. -		1160	40	65	<3		
	c.g. qtz - gneissic texture - M.W.		600	40	90	<3		
	BIOTITE-SERICITE-RTZ-GARNET SCHIST		130	40	60	<3		30% gneiss
	30% biotite, 30% sericite, 30% qtz,		720	30	60	<3		
	10% m.g. - c.g. garnet porphyroblasts.	20 m	1500	30	40	<3		
	- M.W. - lepidoblastic texture.		720	30	40	<3		1% malachite
	QUARTZ-BIOTITE-SERC-FDPR-GARNET		1760	30	45	<3		minor malachite
	GNEISS - 10% c.g. garnet porphyroblasts		2000	30	25	<3		2% mal. 5% mal. limonite
	BIOTITE-GARNET-RTZ-SERC-SCHIST	30 m	2310	35	35	<3		1% malachite, M.W.
	- 35% biotite, 30% m.g. - c.g. garnet		5000	50	1-0	<3		
	porphyroblasts, 20% qtz, 15% sericite,		2800	50	135	<3		
	- soft - black - S.W.		1840	40	110	<3		
	BIOTITE-SERICITE-QUARTZ-GARNET SCHIST		4500	45	85	<3		
	35% 30% 25% 10% S.W.	40 m	1270	35	70	<3		
	BIOTITE-GARNET-RTZ-SERICITE SCHIST		300	40	150	<3		minor dissemin. pyrrh.
	BIOTITE-RTZ-SERC-GARNET SCHIST		1130	40	180	<3		
	BIOTITE-GARNET-RTZ-SERC SCHIST		5700	35	70	<3		5% disseminated m.g. - c.g. pyrrh.
	QUARTZ-BIOTITE-GARNET GNEISS -	50 m	1140	30	100	<3		
	30% bte, 20% c.g. garnet porphyroblasts,		7500	35	110	<3		1% chpy, minor chalco
	10% sericite, rest c.g. qtz. - S.W.		2600	30	30	<3		1.5% chpy, 4% pyrrh.
	BIOTITE-RTZ-FDPR-GARNET SCHIST		1150	10	10	<3		minor chpy, "
	BIOTITE-SERICITE-RTZ-GARNET SCHIST		410	30	20	<3		minor chpy.
	- fresh - black - 40% bte, 30% sericite,	60 m	1100	30	30	<3		rare chpy, minor pyrrh.
	25% qtz, 5% small pink garnets		1070	35	30	<3		rare pyrrh.
	RTZ-BIOTITE-SERICITE-GARNET SCHIST		1570	50	40	<3		
	BIOTITE-SERICITE-QUARTZ-GARNET		480	50	30	<3		
	SCHIST - as before	70 m	150	40	60	<3		minor disseminated pyrrhotite
	BIOTITE-SERICITE-FELDSPAR-QUARTZ		215	50	40	<3		
	SCHIST - 30% biotite, 30% sericite,		140	50	60	<3		
	20% pink orthoclase, 20% m.g. qtz		110	40	50	<3		
	(xenoblastic) - lepidoblastic	80 m	35	30	40	<3		
	texture - schistose.		70	35	40	<3		
	BIOTITE-SERICITE-RTZ-GARNET SCHIST		50	40	35	<3		
	QUARTZ-BIOTITE-FELDSPAR GNEISS	90 m	30	40	15	<3		
	END OF HOLE 94 metres		80	35	35	<3		
	ASSAYS		45	30	35	<3		
	Depth	Co %	Cu %	Zn %	Pb %	Ag ppm		
	22-24m	<0.01	0.03	0.01	<0.02	<2		
	26-28m	<0.01	0.06	<0.01	<0.02	<2		
	28-30m	<0.01	0.16	<0.01	<0.02	<2		
	30-32m	<0.01	0.20	0.01	<0.02	<2		
	30-32m	<0.01	0.15	<0.01	<0.02	<2		
	32-34m	<0.01	0.12	<0.01	<0.02	<2		

DRILL TYPE: Schramm

DATE DRILLED:

29-30th Nov 1976

DRILLER:

LOGGED: J.A. OAKES

R. WULFE

ORG NO:

15 6385

SCALE

1:500

HOLE N° PTM - 11

R.L. COLLAR :.....

INCLINATION: 60°

DIRECTION: 190° N

[illegible]

DRILL TYPE: Schramm

DATE DRILLED:

29th Nov. 1976

GRILLER.

LOGGED: J. A. OAKES

R. WULFF

DRG N°. A.S. 6384

SCALE

1:500

PROJECT: SOUTH AUSTRALIA
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM
LOCATION: 5 km S Corella H.S. CO-ORDS: M19100 S 1200 E 071

HOLE N° PTM-10

R.I. COLLAR:

INCLINATION: 60°

DIRECTION: 190° N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	Red aeolian sand - 20% calcaree		c.	620	20	70	<3	30% H.W. schist.
	BIOTITE-SERICITE-QUARTZ SCHIST		b5Q	750	20	175	<3	
	40% biotite, 30% sericite, green & rest m.g. qtz (xenoblastic) brown, -lepidoblastic texture. --- H.W. -schistose- very soft yellow, H.W.	10 m	b5Q	580	10	25	<3	
			b5Q	1210	20	30	<3	
			b5Q	830	20	30	<3	
			b5Q	750	20	30	<3	5% limonite after sulphide
	BIOTITE-SERICITE-Qtz-GARNET SCHIST		b5Q	1120	20	40	<3	minor mal, 5% lim.
	-10% m.g. pink garnet porphyroblasts, 5% magnetite, 40% biotite, 30% sericite, rest a.g. qtz. --- M.W. -lepidoblastic texture - white 10% red sericite schists --- S.W.	20 m	b5Q	1350	20	30	<3	minor red & black gossan.
			b5Q	1550	20	60	<3	19% mal, 5% lim
			b5Q	2500	20	50	<3	
			b5Q	3150	30	60	<3	
			b5Q	1600	30	70	<3	
			b5Q	910	30	90	<3	
			b5Q	340	30	105	<3	minor pyrrh.
	BIOTITE-SERICITE-GARNET-Qtz SCHIST	30 m	b5Q	530	30	120	<3	minor chpy, 2% pyrrh.
	30% black biotite, 30% silvery sericite, 25% pink garnet porphyroblasts, rest qtz - disseminated m.g. chpy. - pyrrh - lepidoblastic texture - fresh.		b5Q	310	20	120	<3	0.5% chpy, 3% pyrrh.
			b5Q	720	20	80	<3	0.5% chpy, 3% pyrrh.
			b5Q	800	10	50	<3	0.5% chpy, 3% pyrrh.
			b5Q	960	10	50	<3	0.5% chpy, 3% pyrrh.
		40 m	b5Q	1000	30	120	<3	0.5% chpy, 3% pyrrh.
			b5Q	210	20	40	<3	0.5% chpy, 3% pyrrh.
	QUARTZ-BIOTITE-GARNET GNEISS + vein qtz - 25% large garnets, 30% bte, rest c.g. qtz		b5Q	80	10	20	<3	0.5% chpy, 3% pyrrh.
	BIOTITE-SERICITE-GARNET-Qtz SCHIST - as above		b5Q	280	10	30	<3	disseminated.
	QUARTZ-BIOTITE-GARNET GNEISS - 30% lepidoblastic biotite, 20% c.g. pink garnet porphyroblasts, 10% sericite, rest c.g. qtz - some vein qtz	50 m	b5Q	420	20	40	<3	minor chpy, 2% pyrrh.
	BIOTITE-SERICITE-QUARTZ SCHIST - 40% biotite, 30% sericite, 30% f.g. - m.g. qtz - lepidoblastic - fresh - soft.		b5Q	720	20	30	<3	0.5% chpy, 3% pyrrh.
	BIOTITE-SERICITE-Qtz-GARNET SCHIST - 10% garnets, 40% bte, 20% qtz, 30% serc		b5Q	630	20	30	<3	0.5% chpy, 3% pyrrh.
	QUARTZ-BIOTITE-SERICITE-GARNET SCHIST - 10% large pink garnet porphyroblasts, 30% biotite, 20% sericite, 5% mag, rest qtz		b5Q	880	20	30	<3	0.5% chpy, 3% pyrrh.
	Qtz-BIOTITE-FELDSPAR GNEISS - hard - 10% c.g. garnets, 5% mag, 20% biotite, 10% sericite, 20% feldspar, rest c.g. qtz	60 m	b5Q	500	10	20	<3	0.5% chpy, 3% pyrrh.
	QUARTZ-BIOTITE-SERICITE-GARNET SCHIST - as above		b5Q	1740	10	30	<3	0.5% chpy, 3% pyrrh.
			b5Q	1680	20	40	<3	0.5% chpy, 3% pyrrh.
			b5Q	740	20	40	<3	0.5% chpy, 3% pyrrh.
			b5Q	1210	10	30	<3	0.5% chpy, 3% pyrrh.
			b5Q	560	10	20	<3	0.5% chpy, 3% pyrrh.
			b5Q	800	10	30	<3	0.5% chpy, 3% pyrrh.
		70 m	b5Q	500	20	30	<3	0.5% chpy, 3% pyrrh.
			b5Q	270	30	30	<3	0.5% chpy, 3% pyrrh.
			b5Q	320	20	30	<3	0.5% chpy, 3% pyrrh.
			b5Q	160	10	30	<3	0.5% chpy, 3% pyrrh.
			b5Q	110	10	20	<3	0.5% chpy, 3% pyrrh.
		80 m	b5Q	210	20	60	<3	0.5% chpy, 3% pyrrh.
			b5Q	230	20	20	<3	0.5% chpy, 3% pyrrh.
			b5Q	1390	20	30	<3	0.5% chpy, 3% pyrrh.
			b5Q	750	20	30	<3	0.5% chpy, 3% pyrrh.
			b5Q	340	20	40	<3	0.5% chpy, 3% pyrrh.
			b5Q	150	20	40	<3	0.5% chpy, 3% pyrrh.
		90 m	b5Q	330	20	50	<3	0.5% chpy, 3% pyrrh.
	BIOTITE-SERICITE-Qtz-GARNET SCHIST - 10% garnet, 40% bte, 25% serc, rest qtz		b5Q					2% pyrrhobite
	END OF HOLE 92 metres							
	ASSAYS	100 m						
	Depth Cu % Zn % Pb % Ag ppm							
	36-38m 0.07 <0.01 <0.02 <2							
	40m 0.03 0.01 <0.02 <2							
	52-54m 0.05 <0.01 <0.02 <2							
	56-58m 0.18 <0.01 <0.02 <2							
	60m 0.10 <0.01 <0.02 <2							
	64-66m 0.04 <0.01 <0.02 <2							

DRILL TYPE Schramm

DATE DRILLED:

28-29th Nov 1976

DRILLER:

LOGGED: J.A. OAKES

R. WULFF

DRG N° AS 6383

SCALE

1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
 TRINITY MINE LOG OF PERCUSSION DRILL HOLE
 PROSPECT: KING DAM
 LOCATION 5km S. Corella H.S. CO-ORDS. M188005 1200 E073

HOLE N° PTM-8
 R.L. COLLAR
 INCLINATION: 60°
 DIRECTION: 190° N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM					REMARKS
				Ni	Cu	Zn	Pb	Ag	
	Red aeolian sand - 20% calcare			35	140	65	40	<5	20% qtz & schist
	BIOTITE-SERICITE-QUARTZ SCHIST			45	485	100	65	<5	
	-brown & yellow - H.W. -			35	255	75	60	<5	5% limonite
	BIOTITE-SERICITE-AMPHIBOLE-GARNET SCHIST			85	1310	260	55	<5	after sulphide
	- 10% garnets - red & black.			140	1590	305	55	<5	
	AMPHIBOLITE - brown, white & yellow	10 m		130	950	170	50	<5	
	-H.W. - very soft - altered - 5%		A	100	355	110	50	<5	
	lim, 10% bte, 10% serc, 30% hble, rest calc		A	95	335	140	50	<5	
	BIOTITE-GARNET-QUARTZ SCHIST -			110	390	80	55	<5	30% black amph.
	20% qtz, 20% sericite, 30% garnet, bte.	20 m		120	730	90	50	<5	
	AMPHIBOLITE -		A	125	495	160	50	<5	
	altered - 10% biotite, white,		A	130	590	170	50	<5	
	10% sericite, 30% green &		A	120	355	165	45	<5	
	hornblende, rest white,	30 m	A	150	385	170	55	<5	
	calc - CO ₃ after M.W. - S.W.		A	210	360	165	50	<5	
	feldspar. black, fresh.		A	165	365	170	45	<5	
			A	170	360	200	50	<5	
			A	175	370	240	40	<5	
			A	65	165	65	60	<5	
	BIOTITE-SERICITE-QUARTZ -	40 m		60	375	45	45	<5	
	GARNET-SCHIST - green - fresh -			70	260	55	40	<5	
	soft - 40% biotite, 30% sericite,		bsq	55	200	60	40	<5	minor pyrrhotite
	25% m.g. qtz, 5% pink garnets,			70	170	50	35	<5	
	5% m.g. magnetite, - lepidoblastic texture	50 m			145	65	30	<5	rare chpy
					300	105	35	<5	minor chpy, 2% pyrrh.
					150	65	30	<5	rare chpy, " "
			bsq		160	60	30	<5	minor chpy & pyrrh.
	BIOTITE-SERICITE-QUARTZ -				455	175	50	<5	
	MAGNETITE - GARNET SCHIST				300	160	60	<5	minor chpy, 2% pyrrh., disseminated
	40% biotite, 25% sericite, 20%	60 m	bsq		195	65	30	<5	
	quartz, 10% magnetite, 5% pink				225	75	40	<5	0.5% chpy, 3% pyrrh.
	garnets as porphyroblasts -				255	70	35	<5	rare chpy, 1% pyrrh., disseminated
	lepidoblastic texture				180	65	30	<5	5% pyrrh, minor chpy
	20% qtz-bte schist		bsq		165	60	30	<5	minor pyrrh.
	QUARTZ-BIOTITE-SERICITE SCHIST	70 m			215	70	30	<5	
	-green-fresh-hard- 30% biotite,				315	80	25	<5	minor pyrrhotite
	20% sericite, rest qtz as m.g. - c.g.		bsq		295	80	30	<5	
	xenoblasts - minor garnets & magnetite.				225	135	35	<5	1% disseminated pyrrhotite
	- lepidoblastic texture		bsq		210	70	35	<5	
	END OF HOLE 80 metres	80 m			315	75	35	<5	2% pyrrh.
		90 m							
		100 m							
		110 m							

DRILL TYPE: Schramm DATE DRILLED: 27-28th Nov 1976
 DRILLER: R. WULFE LOGGED: J.A. OAKES
 DRG N° A5. 6381

SCALE 1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
 TRINITY MINE LOG OF PERCUSSION DRILL HOLE
 PROSPECT: KING DAM
 LOCATION: 5 km S. Cordoba H.S. CO-ORDS: M189005 1200E

HOLE N° PTM-7

R.L. COLLAR: ...
 INCLINATION: 60°
 DIRECTION: 190°N

074

DEPTH METRES	LOG	GEOCHEM					REMARKS
		Ni	Cu	Zn	Pb	Ag	
10 m	Amph		2150	55	35	<5	20% calcite
	Q		290	20	10	<5	
			485	25	10	<5	20% H.W. schist
			2210	60	25	<5	
	bsQ		1500	50	20	<5	
			960	100	25	<5	
			920	65	20	<5	
			870	55	20	<5	
			38000	105	20	<5	2% malachite
			6200	70	40	<5	1% malachite
20 m	bsQ		1550	50	20	<5	
			870	40	15	<5	
			1100	85	30	<5	minor malachite
			1810	80	25	<5	
			790	100	45	<5	
30 m			380	130	40	<5	5% limonite after sulphide
			345	90	30	<5	
			140	80	30	<5	
			250	50	35	<5	
			60	230	60	<5	
40 m			60	250	50	<5	
			75	310	65	<5	
			70	240	50	<5	2% mg-c.g. pyrrh.
			50	90	120	<5	minor pyrrh.
			40	130	145	<5	1% pyrrh, minor mal. contam.
50 m			45	120	100	<5	
			50	130	85	<5	
			55	120	100	<5	minor pyrrhotite
			50	135	50	<5	mg-c.g. disseminations
			55	90	50	<5	minor mal. contam.
60 m							
70 m							
80 m							
90 m							
100 m							
110 m							

LEGEND
 b - biotite mal - malachite sch - schist
 s - sericite lim - limonite amph - amphibolite
 q - quartz pyrrh - pyrrhotite

DRILL TYPE: Schramm DATE DRILLED: 27th Nov 1976
 DRILLER: R. WULFF LOGGED: J. A. OAKES
 ORG N° AS 6380

SCALE 1:500

PROJECT: SOUTH AUSTRALIA
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM
LOCATION: 5km S. Corella. H.S. CO-ORDS: M19000 S 1800 E

HOLE NO PTM-6

075

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 190°N

METER DOWN	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
No water	Calcrete - red aeolian sand - qtz rubble		C.C.	560	30	40	<3	10% H.W. schist
	BIOTITE - QUARTZ - SERICITE - GARNET		BS	820	30	40	<3	minor malachite
	SCHIST - 40% biotite, brown, & green, 30% qtz, 20% sericite, no chips, H.W. 5% pink mg. garnet porphyroblasts, 5% magnetite M.W. silvery	10m	BS	2130	30	40	<3	5% limonite
			BSQ	1030	40	110	<3	5% disseminated limonite after sulphide
			BS	160	40	40	<3	
			BS	250	40	70	<3	
			BS	350	40	50	<3	minor vein qtz
			BSQ	330	40	50	<3	
			BSQ	155	30	50	<3	
			BSQ	120	40	40	<3	
			BSQ	100	30	60	<3	
			BSQ	70	50	80	<3	10% magnetite
	QUARTZ - BIOTITE - SERICITE - GARNET SCH.		BS	20	20	60	<3	
	BIOTITE - QUARTZ - SERICITE - GARNET		BS	40	40	90	<3	minor pyrrhotite
	SCHIST - as above - S.W.		BS	40	40	50	<3	
	SERICITE - BIOTITE - QUARTZ - SCHIST		BSQ	40	30	30	<3	
	-40% silvery sericite, 30% black-biotite, 30% mg. qtz, lepidoblastic texture - fresh - soft	30m	BSQ	60	40	60	<3	
			BSQ	80	40	30	<3	minor vein qtz
			BSQ	120	40	110	<3	
			BSQ	140	40	110	<3	
			BSQ	50	30	50	<3	
			BSQ	70	50	50	<3	minor vein qtz
			BSQ	70	40	30	<3	
			BSQ	70	20	40	<3	vein qtz
			BSQ	60	40	30	<3	
			BSQ	100	40	40	<3	
	BIOTITE - QUARTZ - SERICITE SCHIST - black - 40% qtz, 10% sericite, rest ble SERICITE - BIOTITE - QUARTZ SCHIST - as above	50m	BSQ	70	30	20	<3	
			BSQ	100	30	30	<3	
			BSQ	90	30	30	<3	
			BSQ	90	40	30	<3	
	END OF HOLE 60 metres	60m						
		70m						
		80m						
		90m						
		100m						
		110m						

DRILL TYPE: Schramm

DATE DRILLED

27th Nov. 1976

DRILLER

LOGGED J. A. OAKES

R. WULFF

DRG NO. A5 6379

SCALE

1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY MINE LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM
LOCATION: 5 km S. Corella H.S. CO-ORDS: M18900 S 1800 E 076

HOLE NO PTM-5

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 190°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM				REMARKS
				Cu	Pb	Zn	Ag	
	BIOTITE-SERICITE-QUARTZ SCHIST			260	40	70	<3	minor qtz rubble
	80% biotite, 30% sericite,		bsQ	370	60	80	<3	
	30% qtz - lepidoblastic brown,			670	60	65	<3	
	& schistose texture. green			960	50	90	<3	
	& yellow, H.W.	10 m	bsQ	370	50	50	<3	
	no chips.			580	60	35	<3	
				2760	60	120	<3	
				1640	60	80	<3	
	BIOTITE-QUARTZ-SERICITE-GARNET		bsQ	1980	50	80	<3	
	SCHIST - 30% biotite, M.W.	20 m	bsQ	470	50	40	<3	minor green malachite,
	30% qtz, 20% sericite, white			380	50	30	<3	5% disseminated
	5% m.g. pink & silvery			290	30	20	<3	limonite after
				680	40	20	<3	sulphide
	garnet S.W. 20% vein	30 m	bsQ	12300	30	25	<3	1% bn, chalc, chpy & py.
	porphyroblasts, qtz			3000	30	50	<3	1% chpy, minor bn-chalc.
	5% f.g. magnetite. Fresh, green.			1300	20	40	<3	1% chpy, minor chalc.-bn.
				530	30	60	<3	0.5% disseminated
				380	40	40	<3	m.g. chpy; 2% pyrrh.
				420	50	40	<3	1% chpy, 2% pyrrh.
	Quartz-biotite-feldspar-garnet gneiss	40 m	bsQ	380	60	30	<3	minor chpy, 2% pyrrh.
	BIOTITE-SERICITE-QUARTZ-GARNET			220	50	30	<3	rare chpy 2%
	SCHIST - 80% biotite, 30% sericite,		bsQ	140	40	25	<3	minor chpy pyrrh.
	10% small pink garnets, 1% tourmaline		bsQ	220	30	20	<3	rare chpy 1%
	rest m.g. qtz xenoblasts.			150	30	20	<3	minor chpy pyrrh.
				130	30	30	<3	minor pyrrh.
	BIOTITE-QUARTZ-GARNET-MAGNETITE	50 m	bsQ	140	40	100	<3	5% dissen pyrrh.
	SCHIST - 10% garnet, 20% serc, 30% qtz & bte			100	40	80	<3	10% magnetite
	QUARTZ-BIOTITE-SERICITE SCHIST			110	40	70	<3	
	-30% bte, 20% sericite, minor fsp &			60	30	10	<3	
	garnet, rest m.g. qtz.	60 m	bsQ	140	50	30	<3	10% green chlorite
				80	30	30	<3	5% garnets.
				110	30	40	<3	
	METAQUARTZITE - 20% bte, 3% mag, rest qtz			150	40	50	<3	3% pyrrh.
	Schist as above.			110	30	40	<3	rare pyrrh.
	END OF HOLE 68 metres	70 m						
		80 m						
		90 m						
		100 m						
		110 m						
ASSAYS								
Depth	Cu %	Zn %	Pb %	Ag ppm				
26-28m	0.86	40.01	40.02	4.2				
30m	0.29	40.01	40.02	4.2				
32m	0.88	40.01	40.02	4.2				
34m	0.05	40.01	40.02	4.2				
36m	0.04	40.01	40.02	4.2				
38m	0.03	40.01	40.02	4.2				

DRILL TYPE: Schramm. DATE DRILLED:

26th Nov 1976

DRILLER: R. WULFF. LOGGED: J.A. OAKES

SCALE: 1:500

DRG NO AS 6378

MOUL IV. 111-4

077

R.L. COLLAR
INCLINATION: 60°
DIRECTION: 100° N

Small supply

DRG N° A.S. 6377

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: $100^{\circ}N$

DRILL TYPE: Schramm	DATE DRILLED: 25th Nov 1976
DRILLER: R. WOLFE	LOGGED: J.A. OAKES
	DRG NO: 45 6361

PROJECT: TRINITY MINE SOUTH AUSTRALIA
LOG OF PERCUSSION DRILL HOLE
PROSPECT: KING DAM
LOCATION: 5km S Corella H.S. CO-ORDS: M18000 S 2800 E

HOLE N° PTM-2
R.L. COLLAR: 079
INCLINATION: 60°
DIRECTION: 100°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM					REMARKS
				Ni	Cu	Zn	Pb	Ag	
Small supply	Red aeolian clayey sand - 30% calcrete		c.c.	25	1370	25	30	<5	minor qtz rubble
	BIOTITE - QUARTZ - SERICITE SCHIST		bs	45	3170	35	30	<5	minor malachite, as masses & grains
	- brown - H.W. - 30% bte, 20% seric, rest qtz		ss	40	1990	130	25	<5	
	QUARTZ - Biotite - SERICITE SCHIST		bs	95	6600	85	30	<5	lepidoblastic texture
	- 30% biotite, 20% sericite, 10% fsp, minor garnets, rest qtz - M.W.	10 m	ss	60	1600	55	30	<5	
			ss	35	850	35	35	<5	
	QUARTZ - Biotite - FELDSPAR GNEISS		tt	35	160	30	30	<5	gneissic texture
	- 25% biotite, 20% feldspar, 10% sericite, 5% garnet, rest c.g. qtz - M.W.		bs	40	360	40	40	<5	minor vein qtz
			tt	35	95	15	30	<5	
	QUARTZ - Biotite - SERICITE SCHIST		ss	25	90	20	35	<5	
	- 30% black biotite, 20% grey to silvery sericite, 5% small pink garnets, rare butmaline, rest qtz occurring as M.g - C.g. xenoblasts. -	20 m	ss	30	140	100	35	<5	M.W - S.W.
			bs	35	250	10	30	<5	
			ss	40	235	10	30	<5	fresh.
			ss	40	210	5	30	<5	
		30 m	ss	55	330	20	25	<5	
	Minor gneiss as above		bs	50	70	15	30	<5	minor apatite
	1% tourmaline		ss	45	55	15	25	<5	minor vein qtz
	10% garnets.		ss	55	85	35	30	<5	
			ss	60	275	60	30	<5	
		40 m	ss	55	145	50	25	<5	
			ss	55	150	45	30	<5	
	M.g. - C.g. chpy. disseminated.		ss	55	190	60	45	<5	minor chpy. 3%
	10% gneiss as above		ss	45	225	50	50	<5	0.5% chpy. pyrrhotite
			bs	40	370	25	40	<5	
		50 m	ss	40	165	20	40	<5	
			ss	40	195	50	45	<5	
			ss	35	250	60	55	<5	
	minor vein qtz chpy. mainly in qtz		ss	40	175	45	40	<5	minor chpy, 3% pyrrhotite - py - disseminated
			bs	40	290	35	40	<5	
		60 m	ss	35	310	30	35	<5	
			bs	35	280	30	30	<5	
			ss	35	280	30	35	<5	rare chpy - py.
			ss	40	175	40	40	<5	
			ss	45	120	20	40	<5	
END OF HOLE 68 metres		70 m							
		80 m							
		90 m							
		100 m							
		110 m							

LEGEND
Q - quartz s - sericite tt - gneiss
b - biotite ss - schist chpy - chalcopyrite

DRILL TYPE: Schramm

DATE DRILLED:

25th Nov. 1976

DRILLER:

R. WOLFE

LOGGED:

J. A. OAKES

SCALE

1:500

DRG N°

AS 6366

PROJECT: TRINITY MINE AUSTRALIAN SELECTION (PTY) LTD
 SOUTH AUSTRALIA LOG OF PERCUSSION DRILL HOLE
 PROSPECT: KING DAM
 LOCATION 5 km S. Corella H.S. CO-ORDS: M18000 S 2400 E

HOLE NO PTM-1

080

R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 100° N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM					REMARKS
				Ni	Cu	Zn	Pb	Ag	
1000 g.ph.	Red aeolian clayey sand - 30% calcare		20	20	40	30	30	<5	15% qtz rubble
	QUARTZ - BIOTITE - SERICITE SCHIST - green & yellow, soft H.W		SS	30	35	60	30	<5	
			Qbs	30	20	65	35	<5	
	- Schistose - soft - 10% pink orthoclase, 20% silvery sericite, 30% black biotite, minor m.g. pink garnets, rest qtz xenoblasts - lapidoblastic texture	10 m	SS	35	25	80	35	<5	M.W - S.W.
			SS	30	30	40	30	<5	
			SS	35	30	315	35	<5	
			SS	45	25	125	30	<5	
	FINE GRAINED AMPHIBOLITE - black - fresh - very hard - f.g. - granuloblastic texture - 20% plagioclase, 10% green epidote often as joint coatings, rest hornblende - massive	20 m	A	100	85	170	25	<5	
			A	105	110	170	30	<5	
			A	90	120	115	35	<5	
			A	90	115	105	30	<5	
			A	95	70	120	30	<5	
			A	85	80	90	30	<5	
END OF HOLE 26 metres. Hole abandoned due to extremely slow rate of penetration, < 4 metres/hr.									
		30 m							
		40 m							
		50 m							
		60 m							
		70 m							
		80 m							
		90 m							
		100 m							
		110 m							

LEGEND

Q - quartz s - sericite C - calcare
 b - biotite SS - schist A - amphibolite

DRILL TYPE: Schramm

DATE DRILLED: 24th Nov 1976

DRILLER:

LOGGED: J.A. OAKES

R. WOLFE

DRG. NO. AS 8365

SCALE

1:500

APPENDIX 2

GEOCHEMICAL LABORATORY SHEET

082 107266

BOX No. 26425

AREA LOCATION 1st Aust GRID Muloonoo

LINE No. Shimley Mine EAST * ANALYTICAL WEST DETAILS Cu Pb Zn Ag Fe Mn

DATE ANALYSED 6.12.76

SAMPLE TYPE CHIP SAMPLED BY J.A.O. DATE SAMPLED 15-11-76

ANALYST RL

SAMPLE NUMBER	TUBE No.	Line Footage / Core Footage From	Fe ₂ O ₃ Soil-Gator / Cores Footage-To	Cu	Zn	Pb	Mn	Ag	GRID REFERENCE	
A 832001			21.0	9600	80	45	1090	<3	M157S	74E
02			19.0	348000	250	50	120	40	M156S	75E
03			26.0	231000	75	40	70	30	M157S	73E
04			32.0	15700	180	45	1030	3	M198S	47E
05			14.0	46100	2500	35	8600	<3	M198S	47E
06			14.0	1240	590	50	3500	<3	M198S	46E
07			46.0	8400	40	35	55	<3	M151.5S	66E
08			64.0	2000	230	45	4720	6	M188S	13E
09			77.0	120	35	40	140	<3	M188S	09E
10			54.0	98000	50	55	370	6	M200S	07E
11			13.5	91000	100	45	2250	<3	M226S	63W
12			67.0	7200	860	165	70	<3	M177S	34.5E
D1				320	50	30	680	4		

AUSTRALIAN SELECTION (PTY) LIMITED

TRINITY E.L. 274

Second Quarterly Report

23rd February to 22nd May, 1977



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A P P E N D I C E S

1. Rock Chip Sample Results Cu, Pb, Zn, Ag, Fe, Mn, Ni
2. Percussion Logs PTM-57 to 72, PTBA-1 to 7, PTMD-1 to 4, PTDC-1

T A B L E S

- I Percussion Drill Statistics
- II Significant Gossan Sample Results
- III Significant Geochemical Results from Drilling

FIGURES

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Fig. No.

1	E.L. 274 Geological and Drill Location Plan. Sheet 1. Scale 1:25,000	AS 6563
2	E.L. 274 Geological and Drill Location Plan. Sheet 2. Scale 1:25,000	AS 6564
3	Trinity-King Dam. Geological and Drill Location Plan. Scale 1:6000	AS 6482
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5	Trinity Mine - Longitudinal Projection Scale 1:1000	AS 6566
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7	King Dam Prospect (Mutooroo Grid) Drill Cross Sections (Scale 1:1000) Lines M16000S and M18000S	AS 6568
8	Lines M1800E and 1200E	AS 6569
9	Lines M800E, 600E, 400E	AS 6570
10	Lines M200W, 400W, 600W, 800W	AS 6571
11	Lines M1000W, 1200W, 1400W, 1600W	AS 6572
12	Lines M1800W, 2200W, 2600W 3000W	AS 6573
13	Star Prospect (Mutooroo Grid) Lines M200E, 100E, 00, 100W	AS 6574
14	Lines 200W and 300W	AS 6575
15	Trinity Mine (Regional Grid) Lines 196000S, 196400S 196500S, 196600S	AS 6576
16	Lines 19700S, 19800S and 197000S	AS 6577
17	Lines 196800S and 197200S	AS 6578

INTRODUCTION

Exploration throughout the quarter comprised geological mapping, gossan search, gridding, scintillometer scanning of drill samples, ground magnetic traversing, compilation of data and percussion drilling.

During the period exploration was concentrated on anomalous zones delineated by the S.A. Mines Department. Some anomalous zones delineated by MEPL were also examined.

PERSONNEL AND EQUIPMENT

Exploration Division

Three geologists (two part time) and two field assistants (one part time) were employed on the project. Field equipment, supervision and back up were as for last quarter.

Drilling Division

A percussion drilling crew (driller and offsider) were employed from 4th to 27th March, 1977.

Equipment and supervision was as for the first quarter.

087

GENERAL GEOLOGY

Regional geological mapping (1:25,000) continued in the Farley Catch, Rocky Dam, Mingary Mine, McBrides and 16 Mile Dam areas.

Grid mapping (1:6,000) was completed in the Trinity Mine - King Dam, McBrides and Ballara Prospects (MEPL auger logging incorporated - see Figures 1 and 2).

Similarly at Trinity Mine (Figure 4) and Dry Creek Prospect (1:1,000).

SURVEYING

Portions of the MEPL regional grid at Ballara Prospect (24,000 line ft.) and McBrides Prospect (6,000 line ft.) were recovered.

Close spaced (200 ft. x 100 ft.) gridding was completed on the Dry Creek Prospect based on the regional grid. Total 10,000 line feet.

200 ft. x 100 ft. gridding was done on the Stone Tanks Prospect (4,000 line feet) and Sandy Creek Prospect (8,000 line feet) using the Mutooroo grid.

HYDROLOGY

Most holes intersected little or no water. Minor supply (up to 1,000 gph) was recorded in PTM-57, PTM-63, PTM-64 and PTM-68.

Significant (salty) water flows (2000-5000 gph) were noted only in PTM-72 and PTBA-1.

088

GEOPHYSICS

A ground magnetics survey commenced at Trinity Mine but was discontinued due to the proton magnetometer malfunctioning.

Preliminary results indicate the pyrite-pyrrhotite-chalcopyrite-magnetite body at the mine gives rise to a recognisable magnetic anomaly. The survey will continue.

Scintillometer scanning of all percussion samples continued. A McPhar model TV-5 scintillometer was used. No anomalous values were recorded (all less than 300 cpm).

PERCUSSION DRILLING

Drilling continued from 4th to 27th March, 1977; 28 holes were drilled for a total advance of 1,891 metres. See statistics in Table 1. The location of drill holes is shown in Figures 1 to 4.

Drilling conditions were good and advance commonly exceeded 100 metres per day (maximum 212 metres). All holes reached planned target. Ten days drilling were lost due to mechanical breakdowns.

Drilling equipment and techniques were as for last quarter.

089

TABLE I

Percussion Drilling Statistics

All Holes Inclined 60° from Horizontal

Trinity Mine

Hole No.	Grid Reference		Depth (m)	Direction (grid)
PIM-57	*196,500S	15,900W	129	090°N
PIM-58	196,500S	15,400W	60	090°N
PIM-59	196,400S	15,625W	84	090°N
PIM-60	196,400S	15,875W	63	090°N
PIM-61	196,800S	16,550W	92	090°N
PIM-62	197,200S	17,250W	63	090°N
PIM-63	197,150S	17,050W	60	270°N

Total 551 metres

*Regional Grid. Grid N is 040° magnetic

Star Prospect

Hole No.	Grid Reference		Depth (m)	Direction (grid)
PIM-64	+M18,950S	000	98	180°N
PIM-65	M18,900S	100W	22	180°N
PIM-66	M18,900S	100W	105	180°N

Total 225 metres

+Mutooroo Grid. Grid N is 010°N magnetic

Stone Tank Prospect

Hole No.	Grid Reference		Depth (m)	Direction (grid)
PIM-67	+M19,750S	4550E	44	090°gN
PIM-68	M20,000S	4550E	50	090°gN
PIM-71	M20,000S	5050E	62	090°gN

Total 156 metres

030

Sandy Creek Prospect

Hole No.	Grid Reference		Depth (m)	Direction (grid)
PTM-69	+M20,900S	5900E	62	180°gN
PTM-70	M20,900S	6100E	62	180°gN
PTM-72	M21,600S	5200E	62	180°gN

Total 186 metres

Ballara Prospect

Hole No.	Grid Reference		Depth (m)	Direction (grid)
PTBA-1	*274,000S	42,650W	74	090°gW
PTBA-2	266,000S	43,350W	57	090°gW
PTBA-3	265,000S	43,750W	75	090°gW
PTBA-4	267,000S	43,950W	75	090°gW
PTBA-5	269,000S	43,200W	50	090°gW
PTBA-6	270,000S	40,550W	60	090°gW
PTBA-7	270,000S	40,700W	60	090°gW

Total 451 metres

McBrides Prospect

Hole No.	Grid Reference		Depth (m)	Direction (grid)
PTMD-1	*214,000S	35,675W	60	090°gN
PTMD-2	213,000S	35,350W	68	090°gN
PTMD-3	213,000S	38,200W	74	090°gN
PTMD-4	214,000S	34,450W	60	090°gN
PTDC-1	209,900S	23,925W	60	090°gN

Total 322 metres

GOSSAN SEARCH

Several gossan samples were found at Ballara, Farley Catch and Rocky Dam areas during mapping.

Systemmatic gossan search has almost been completed at McBrides Prospect and will be extended over the whole EL area.

In this search small defined areas are traversed at 30 metre intervals to find even small areas of gossan float and outcrop.

Gossan sample location and number are marked on aerial photographs (1:25,000) and in the field by coloured flagging tape.

A summary of the best results is listed in Table II.

TABLE II

Sample No.	Cu ppm	Pb ppm	Zn ppm	Mn ppm	Ni ppm	Prospect Name
A909725	1800	240	550	155	320	McBrides Dam
A909249	325	90	1150	70	190	McBrides Dam
A909244	1550	6000	14000	1250	170	Ballara
A909245	3250	145	750	270	590	Ballara
K52656	1850	560	1680	280	365	Rocky Dam
K52674	500	370	3000	3450	80	McBrides Dam
K52681	185	1780	4700	1070	130	McBrides Dam

A complete set of all results including Fe and Ag is in Appendix I.

MINERALIZATION

Copper sulphides were intersected by drilling at Trinity Mine and Star, Stone Tank, Sandy Creek and Dry Creek prospects.

Lead-zinc was intersected as gossan or galena-sphalerite at McBrides and Ballara prospects.

Table III is a summary of the best drill intersections.

TABLE III

Hole No.	From (metres)	To	Thickness (metres)	Cu (ppm)	Zn (ppm)
<u>Star Prospect</u>					
PIM-64	74	80	6	8200	-
PIM-66	84	94	10	1400	400
<u>Trinity Mine</u>					
PIM-51	52	60	8	1.03%	-
	60	72	12	4100	-
PIM-52	82	88	6	0.56%	-
PIM-55	32	40	8	0.90%	-
	40	46	6	0.27%	-
	46	52	6	0.36%	-
	52	56	4	0.40%	-
	56	64	8	0.97%	-
PIM-56	56	64	8	0.23%	-
PIM-57	118	124	6	5000	-
<u>Stone Tank Prospect</u>					
PIM-67	4	6	2	3110	880
	12	14	2	210	2400
	14	16	2	3440	1440
	24	26	2	1550	1390
<u>Sandy Creek Prospect</u>					
PIM-69	18	42	24	4100	-
	20	28	8	7300	-
	20	22	2	13000	-
<u>McBrides Prospect</u>					
PIMD-1	0	22	22	-	3100
	12	16	4	-	4300
	32	46	14	-	3600
	34	36	2	-	10800
PIMD-2	8	24	16	-	1100
	58	64	6	-	1200
PIMD-4	2	24	22	-	2800
	14	20	6	-	4600

TABLE III Cont...

		<u>Ballara Prospect</u>			
PTBA-1	36	42	6	-	3100
PTBA-2	22	26	4	-	1650
PTBA-6	14	18	4	-	1200
PTBA-7	6	12	6	-	1600

N.B. All results shown as % are assay; ppm are geochem.

King Dam

No percussion drilling was done on the prospect during the quarter.

Drill cross sections (Figures 7-12) are here presented. This data has been discussed in the previous quarterly report.

Of further interest is the absence of Pb, Zn and Ag associated with the pyrrhotite-pyrite-chalcopyrite mineralization (c.f. Star Prospect, see below).

Ground magnetics data is still awaited (previous quarterly report).

Star Prospect

Two percussion holes (PTM-64 and PTM-66) tested the prospect at depth (see Figure 3).

PTM-64 intersected 6 metres of 8200ppm Cu mainly in the quartz-magnetite-sulphide body down dip of the intersection of PTM-30. Of note was the very high pyrrhotite content (20%) of the body in this interval. Anomalous Pb (750ppm) and Zn (750ppm) were intersected in mica-quartz-magnetite schist underneath the body.

PTM-66 intersected only 10 metres of 1400ppm Cu mainly down dip of the intersection in PTM-36.

Drilling has confirmed a steep (70°) grid northerly dip of the quartz-magnetite sulphide body delineated last quarter (see Figure 13). The elongated body probably has steep (65°) grid north-west plunge and a 60° pitch (see Figure 6).

The quartz-magnetite-sulphide body is anomalous in Pb (up to 2240 ppm), Zn (up to 750ppm) and Ah (up to 14ppm). This is in contrast to the King Dam mineralization (see previously).

To the footwall of this body are weakly copper bearing quartz-mica-almandine-magnetite gneisses with thin distinctive bands of mica-quartz-magnetite-kyanite schist. In PTM-35 and PTM-64 minor Cu (to 3250ppm), with anomalous Pb (to 750ppm) and Zn (to 750ppm), was intersected in this zone and should be noted in terms of Pb-Zn exploration (see Figure 13 and 14).

In the hanging wall are quartz-mica gneisses with minor bands of mica schist and metaquartzite. Within this zone in holes PTM-30, PTM-36, PTM-64 and PTM-66 anomalous Zn and Pb occur probably in a zone with similar attitude to the underlying main copper body (see Fig 13 and 14). Weak copper in the top of this Pb-Zn zone suggests metal zoning with depth (see Fig 13 and 14). Minor fluorite and green feldspar were logged in hole PTM-66 in this zone. These are characteristics of Broken Hill type mineralization and further investigation may be warranted.

Trinity Mine

PTM-51 and PTM-55, testing the mine workings, intersected 8 metres of 1.03% Cu and 0.90% Cu respectively. PTM-52 and PTM-56 tested the respective down dip extensions but only intersected 6 metres of 0.56% Cu and 8 metres of 0.23% Cu respectively. PTM-57, testing the northerly strike extension, intersected only 6 metres of 5000ppm Cu.

Drilling and mapping shows the main mineralized zone occurs in quartz-mica-magnetite gneisses (and schists) (often rich in kyanite) overlain by quartz-feldspar gneiss and amphibolite (see Figs. 4, 15 & 16). Primary mineralization is a disseminated pyrite-pyrrhotite-chalcopyrite assemblage. Underneath are quartz-feldspar and quartz-biotite-sericite gneisses. Note that the mineralized zones and rocks dip steeply grid west. It has been interpreted that the zone intersected under the main working occurs in the eastern limb of a north plunging isoclinal syncline and the zone immediately to the west occurs in the overturned western limb of the same syncline. (See Figures 4, 15 and 16).

The interpreted keel of the syncline (using the base of the quartz-mica-magnetite gneiss unit) from drill cross sections and surface geological plan has been plotted on longitudinal projection (see Figure 6). From 197,200S to 196,600S the syncline has a shallow plunge but immediately north there is a marked steeping of plunge as indicated by the attitude of the amphibolite body.

Surface mapping and drilling (PTM-51 and PTM-55) showed a higher grade pod of mineralization between 19600S and 19700S with a possible steep plunge to the north parallel to the line of intersection between the synclines change from shallow to steep plunge. However, drilling (PTM-52, PTM-56 and PTM-57) has shown only weak mineralization in this position.

The mineralization in general plates the keel of the synform and an orebody plunging north could be present. This position is untested. Further drilling, to test the synform theory, may be warranted.

PTM-58 drilled beneath a malachite and disseminated gossan prospecting pit over a mineralized zone east of the main workings (see Figure 4). However, only minor malachite was intersected in steeply grid west dipping sheared quartz-mica-kyanite gneiss (see Figures 15 and 16).

PTM-59 and PTM-60 intersected pyrrhotite and minor chalcopryrite beneath massive limonite boxwork gossan with malachite, the latter in amphibolite near the strike extension of the main mineralized zone (see Figures 4, 15 and 16).

PTM-61 intersected minor chalcopryrite and 5% pyrrhotite beneath a prospecting pit showing massive limonite boxworks and malachite (see Figures 3 and 17).

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PTM-62 and PTM-63 drilled an MEPL auger anomaly of 2930ppm Cu associated with an amphibolite (Stadter, 1976). Only minor chalcopyrite was noted in PTM-62 (see Figures 3 and 17).

Ballara Prospect

MEPL induced polarisation surveys delineated the Ballara prospect as a zone of anomalous response. Diamond hole DD-BA4 tested the strongest IP anomaly but only intersected minor chalcopyrite and heavy pyrite-graphite.

MEPL follow up auger drilling (holes 50' apart along lines 1000' apart) delineated several zones of anomalous Pb and Zn. These were followed up at 10' spacing

MEPL tested only one (2580ppm Cu, 1175ppm Zn) by percussion drilling. PTBA-8 intersected two 1.5 metre intervals assaying 0.185% Cu and 0.113% Cu.

Geological mapping has been carried out (1:25,000) with most data being derived from logging of auger chips (due to very poor outcrop). This mapping indicates the anomalous base metal zones occur in gneisses adjacent to amphibolite bodies (see Figure 2).

Limited gossan search has already produced several anomalous samples related to the above zones (e.g. 1550 ppm Cu, 14000 ppm Zn, 6000 ppm Pb).

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Seven holes (PTBA-1 to PTBA-7) tested the most significant auger anomalies and intersected mineralization in all cases. (See Table III; Figure 2).

PTBA-1 at the southern end tested an auger anomaly of 1625 ppm Cu and 1700 ppm Zn 305 metres (1000') along strike from PTBA-8. The hole intersected 6 metres of 3100 ppm Zn as sphalerite with 5% pyrite in quartz-mica-graphite gneiss.

PTBA-2, at the northern end of the prospect, tested an auger anomaly of 1500 ppm Pb and 2600 ppm Zn. Four metres of 1650 ppm Zn was intersected in quartz-mica green feldspar-graphite gneisses, underlain by Potosi type gneisses (quartz-biotite-almandine) with 760-1140 ppm Zn and 105-335 ppm Pb.

PTA-3, along strike to the north, intersected minor Zn (1490 ppm) in similar rocks (see Figure 2).

PTBA-4, across strike to the west from PTBA-2, drilled a 1440 ppm Zn anomaly and intersected Zn (740 ppm) and Cu (265 ppm) in amphibolite (see Figure 2).

PTBA-5, along strike 600m from PTBA-4, intersected 1020 ppm Zn in amphibolites and quartz-mica-amphibole-green feldspar gneisses (see Figure 2).

PTBA-6 and PTBA-7, located on the eastern side of the prospect, tested a wide anomalous Zn and minor Pb zone.

Up to 1970ppm Zn and 500 ppm Pb was intersected in amphibolites (garnetiferous in part) and quartz-mica gneisses (see Figure 2).

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McBrides Prospect

MEPL geophysical surveys defined a strong IP anomaly at McBrides Prospect (Stadter, 1976, plan no. 76-337). One diamond hole (DD-MC1) tested the strongest IP source but intersected only pyrite-graphite. Auger drilling on two lines to the grid south (Stadter, 1976, plan no. 76-339) defined four zones of anomalous zinc geochemistry (up to 3000 ppm Zn) with some Pb (up to 635 ppm Pb).

Geological mapping (1:25,000) and drilling (see Figure 1) shows two of these zones occur in the quartz-feldspar-amphibole-gneissic margins of an amphibolite body. The third being within the amphibolite. Gossan results to date confirm this.

Surrounding rocks are mica staurolite or sillimanite schists often with graphite and garnet. Within these rocks 600 metres west of the amphibolite is another zone of anomalous Pb-Zn (see Figure 2).

Four drill holes PTMD-1 to PTMD-2 tested these anomalies (see Figure 2).

PTMD-1 tested the western marginal gneiss of the amphibolite and intersected two zones of zinc (22m of 3100 ppm Zn and 14m of 3600 ppm Zn including 2 metres of 10800 ppm in the lower intersection). Maximum lead values were 1200 and 1350 ppm respectively; No silver or copper recorded. Host rocks are quartz-green feldspar-amphibole gneisses, separated by weakly mineralized graphitic gneisses. Primary mineralization is medium grained pyrite-sphalerite-galena dissemination.

Anomalous gossan float occurs on this contact intermittently for 200 metres (max. 1780 ppm Pb, 4700 ppm Zn and 1070 ppm Mn). Minor waxy, resinous quartz (gahnites?) float was often also noted in this position.

PTMD-2, testing 300 ppm Zn central to the amphibolite, intersected 16 metres of 1100 ppm Zn and 6 metres of 1200 ppm Zn (see Figure 1).

PTMD-4 tested the eastern margin of the amphibolite and intersected 22 metres of 2800 ppm Zn (max. 5800 ppm Zn). Note, very low lead values. (see Figure 1).

PTMD-3, testing the western zone of rock geochemistry (2000 ppm Zn), intersected 750 ppm Zn and 1250 ppm Pb. Gossan has been located along strike (max. 1800 ppm Cu, 240 ppm Pb and 850 ppm Zn).

Stone Tank

A pit situated south of Trinity Mine showed malachite, azurite and massive limonite gossan (46000 ppm Cu, 2500 ppm Zn) (see Figure 3). PTM-67 drilled beneath intersected 2 metres of 3440 ppm Cu and 1440 ppm Zn as gossan and 2 metres of 1550 ppm Cu, 1300 ppm Zn (as pyrrhotite, chalcopryrite and sphalerite) lower down. Host rock was a mica-garnet-magnetite schist between an overlying amphibolite and underlying garnetiferous amphibolite. The host rock may therefore be amenable to definition by ground magnetics.

PTM-68 and PTM-71, south and southeast PTM-67, tested coincident Pb-Zn auger anomalies (see Figure 3). No mineralization was noted.

Sandy Creek

The Sandy Creek Prospect is south-south-west of Trinity Mine and occurs near a grid north easterly trending amphibolite and a persistent metaquartzite unit (see Figure 3). Several old copper workings and gossanous outcrops are scattered along the strike length of the prospect.

The limits of the two mineralized zones have been delineated by auger drilling and soil geochemistry.

Three percussion holes show the zones strike north east and dip steeply grid north west.

PTM-69 intersected 24 metres of 4100 ppm Cu (including 8 metres of 7300 ppm Cu) in quartz-mica-almandine garnet gneiss ("Potosi Gneiss") in the main zone (see Figure 3). Mineralization is disseminated pyrite-pyrrhotite-chalcopyrite.

PTM-70 tested the eastern mineralized zone and intersected 6 metres of 1300 ppm Cu as chalcopyrite in mica-quartz garnet schists.

PTM-72, to the southwest, intersected 8 metres of 4900 ppm Cu as malachite and disseminated gossan in quartz gneisses and 6 metres of 1300 ppm Cu in amphibolite from 54 to 60 metres.

Dry Creek

The Dry Creek Prospect 750 metres southwest along strike from King Dam showed malachite and gossan (91000 ppm Cu) in prospecting pits along a strike length of 400m (see Figure 3).

PTDC-1 intersected malachite and chalcopryrite up to 2070 ppm Cu in amphibolite.

Rocky Dam

Gossan float analysing 1850 ppm Cu, 560 ppm Pb, 300 ppm Zn and 3450 ppm Mn occurs near Rocky Dam in the south of the block. Quartz-magnetite rock and an MEPL auger anomaly of 625 ppm Cu occur along strike.

CONCLUSIONS

Exploration to date has been primarily aimed at testing all auger and soil copper anomalies delineated by the work of the South Australian Mines Department. These being essentially the Trinity Mine, King Dam zones and include Star, Dry and Sandy Creeks prospects. Weak, non-economic copper sulphide mineralisation was intersected in percussion drilling under all first order anomalies. Several low order copper anomalies have yet to be followed up.

At Trinity Mine a copper mineralized zone is closely associated with the keel of an isoclinal syncline. PTM-51 and PTM-55 delineated a probable higher grade pod but this did not continue in depth or along strike.

At Star Prospect drilling has confirmed a steep dip and plunge for the quartz-magnetite-sulphide body. However, copper intersected proved uneconomic. Minor, but significant, zinc and lead values, some associated with green feldspar and probable fluorite, show affinities to Broken Hill type mineralization.

Low grade copper has been intersected in three further prospects; Sandy Creek, Dry Creek and Stone Tank Prospects (Zn also in the latter). At each, the disseminated pyrite, pyrrhotite, chalcopyrite is in garnet or gneisses closely associated with stratiform amphibolite bodies.

Moderate, but significant, zinc and minor lead has been intersected in two areas; Ballara and McBrides Prospects. The sphalerite-galena-pyrite mineralization in both areas is within quartz rich margins of amphibolite bodies or quartz-mica-green feldspar-graphite gneisses. In both cases the presence of gossan float anomalous in copper, lead, zinc and manganese along strike from drill hole intersections is encouraging.

Work has shown the presence of at least three types of mineralization on E.L. 274.

The first is exemplified by the King Dam Prospect - Trinity Mine where chalcopyrite occurs with very little lead, zinc or silver but is invariably associated with pyrite-pyrrhotite. The main host rock is quartz-mica-feldspar magnetite (garnet) gneiss.

The second is that at the Star Prospect where chalcopyrite and minor galena, sphalerite and silver occur within a quartz magnetite rock. A zone of overlying minor galena and sphalerite, green feldspar, fluorite and underlying Potosi gneiss show clear affinities to Broken Hill type mineralisation.

The third type as intersected at Ballara and McBride Prospects consists of sphalerite with usually lesser galena and very little copper or silver. Host rocks are generally quartz-feldspar-graphite gneisses at Ballara and in quartz feldspar with closely associated Potosi gneiss again relating to Broken Hill type mineralization.

Clearly, the latter show potential for development of Broken Hill type orebodies and warrant follow up.

RECOMENDATIONS AND FUTURE WORK

At Trinity Mine further percussion drilling is required to test the synclinal keel.

At King Dam some fill in auger drilling would cover areas untested due to widely spaced lines.

At Star Prospect no further drilling for copper is warranted. However, further investigation of lead-zinc anomalies (multi-element geochemistry) is warranted.

Ground magnetics will be undertaken at these prospects.

At Stone Tank, Sandy Creek and Dry Creek Prospects auger drilling and possibly ground magnetics is required to delineate copper mineralization (minor zinc at Stone Tank) intersected in percussion drilling.

Since Ballara and McBrides Dam Prospects show affinity to Broken Hill type mineralization and lead and zinc has been intersected in drilling, both warrant further work.

Geological mapping and gossan search of the rest of the block will continue.

J. Oakes.

GEOLOGIST

REFERENCES

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Stadter, M.H., 1976. Base Metal Exploration in the Mutooroo-
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EXPENDITURE REPORT

E.L. 274 TRINITY

2nd Quarter 23rd February, 1977 to 22nd May, 1977

	<u>2nd Quarter</u>	<u>Year to Date</u>
Exploration Staff	13,284	21,879
Exploration Logistics	5,882	10,762
Exploration Services	5,143	6,656
Property Costs	2	233
Percussion Drilling	20,859	35,607
Depreciation	1,198	2,235
Management & Administration	379Cr	1,361
Kalgoorlie Office and 102	1,132	2,662
	<u>47,121</u>	<u>81,395</u>

Note: Expenditure shown above for the second quarter actually represents the quarter to 30th April, 1977.

APPENDIX I

APPENDIX I

ROCK CHIP GEOCHEMISTRY

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Sample No.	Cu ppm	Pb ppm	Zn ppm	Ag	Ni ppm	Fe %	Mn ppm	Location
A909725	1800	240	550	<3	320	45.5	155	2130S, 382W
A909726	350	100	600	<3	50	28.0	820	2140S, 344.5W
A909727	200	180	850	<3	45	21.0	325	2130S, 382W
A909728	135	400	400	<3	60	12.5	5000	2140S, 345.5W
A909730	85	150	220	<3	10	3.1	310	
A909243	115	85	470	<3	110	42.5	175	Olary Run 3 Photo 56
A909244	1550	6000	1.4%	3	170	43.5	1250	26550S, 433W
A909245	3250	145	750	4	590	48.5	270	2740S, 426W
A909246	65	65	200	<3	35	3.75	245	Olary Run 3
A909247	200	80	1150	<3	160	42.5	100	Photo 56
A909248	65	115	700	3	95	39.0	50	Photo 56
A909249	325	90	1150	3	190	45.5	70	Photo 56
A909250	35	45	150	3	85	42.5	100	M200S, 46E
K52651	35	105	30	<3	35	19.0	780	
K52652	10	60	20	<3	10	46.0	60	Olary
K52553	1250	100	180	<3	45	26.0	40	Run 4
K52654	900	75	540	<3	30	24.0	40	Photo 42
K52655	380	60	15	<3	65	65.0	90	
K52656	1850	560	1680	<3	365	46	280	
K52657	170	85	40	<3	55	24	750	
K52658	10	40	15	<3	15	2	5	Olary
K52659	20	55	20	<3	20	19	395	Run 3
K52660	180	75	90	<3	60	52	5	Photo 56
K52661	135	75	55	<3	55	42	55	
K52662	20	65	22	<3	20	42	40	Olary Run 3
K52663	10	65	10	<3	20	24	20	Photo 58
K52664	20	60	40	<3	20	46	130	Olary
K52665	25	65	30	<3	25	44	170	Run 4
K52666	15	60	30	<3	25	32	20	Photo 42
K52667	10	50	50	<3	15	31	10	
K52668	210	40	70	<3	70		100	Olary
K52669	390	65	620	<3	100		270	Run 3
K52670	490	65	140	<3	300		160	Photo 56
K52671	100	75	850	<3	195		275	McBrides
K52672	150	80	195	<3	250		220	Dam
K52673	200	130	700	<3	85		630	Prospect
K52674	500	370	3000	<3	80		3450	
K52675	450	170	135	<3	65		640	
K52676	230	280	670	<3	105		340	
K52677	265	80	55	<3	130		300	Olary
K52678	20	70	50	<3	45		330	Run 4
K52679	15	50	45	<3	40		230	Photo 42
K52680	25	85	50	<3	40		185	

K52681	185	1780	4700	<3	130	1070	
K52682	230	200	800	<3	80	380	
K52683	460	140	510	<3	90	520	
K52684	155	140	60	<3	50	570	Olary
K52685	370	230	740	<3	100	195	Run 3
K52686	130	235	120	<3	65	630	Photo 56
K52687	40	120	60	<3	40	255	McBrides
K52688	45	230	75	<3	45	300	Dam
K52689	230	150	180	<3	580	360	Prospect
K52690	150	90	950	<3	120	190	
K52691	1190	100	150	<3	900	115	
K52692	125	125	750	<3	170	275	
K52693	90	70	1000	<3	350	330	

APPENDIX II

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY MINE...

HOLE N° PTM-57

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090°gN

LOCATION: 5 km SSE Cornella H.S. CO-ORDS: 196,500 S 159,00 W

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WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Pb (ppm)	Cu (ppm)	Zn (ppm)	
very small supply	CALCRETE - white nodules - 10% red sandy soil		125	120	80		
	QTZ-CHLORITE-AMPHIBOLE-MAGNETITE		20	250	85		limonite staining
	GNEISS - 30% chlorite, H.W.		25	230	100		amphibole altered to calc.
	20% calc/amph, 10% mag. rest qtz. M.W.		30	180	130		lim pseudo after py
	AMPHIBOLITE - black-hard-massive-10% mag. 20% feldspar, 10% qtz, minor ser, rest hornblende	10 m	A A	25	215	105	minor lim pseudos after py M.W.
			A	30	135	110	
	QTZ-CHLORITE-AMPHIBOLE-SERICITE-MAGNETITE GNEISS - 25% chlorite, 20% amphibole, 10% sericite, 10% mag, rest qtz		25	185	130		rare limonite pseudomorphs after py.
			30	270	140		
			25	200	145		
	AMPHIBOLITE - as above but with minor chlorite, sericite & epidote - S.W.	20 m	A A	20	175	125	
			25	130	180		
	QTZ-CHLORITE-AMPHIBOLE-SERC-MAG. GNEISS		20	185	130		rare partially limonitized py cubes
	AMPHIBOLITE - as above - S.W.		A	25	170	120	
			A A	30	185	120	
	QTZ-CHLORITE-AMPHIBOLE-SERICITE-MAGNETITE GNEISS - as above - fresh.	30 m	QA	20	220	140	rare fig. py
			25	185	110		
	AMPHIBOLITE - green-30% epidote, 20% qtz		A A	30	120	55	rest hornblende
	QTZ-CHLORITE-AMPHIBOLE-SERICITE-MAGNETITE GNEISS - as above - fresh		QA	30	125	160	minor py-pyrh.
			35	330	140		
	AMPHIBOLITE - black - opatic texture - mostly hornblende - minor qtz, feldspar & chl.	40 m	A A	40	210	165	10% f.g. mag. minor c.g. py.
	QTZ-CHLORITE-AMPH-SERC-MAG GNEISS		QA	40	270	120	
	AMPHIBOLITE - 20% green epidote		A A	25	260	110	
	QTZ-CHLORITE-AMPHIBOLE-SERICITE-MAGNETITE GNEISS		QA	20	145	60	
			25	150	100		2% f.g. py
	QTZ-CHLORITE-GARNET-MAGNETITE GNEISS - 15% small garnets, 25% chl, 10% mag.	50 m	QA	45	70	115	
			35	165	100		3% py
	AMPHIBOLITE - 20% green epidote		A A	30	160	115	
	QTZ-BIOT-CHLORITE-AMPH-MAGNETITE GNEISS - thin qtz vein - limonite after pyrite - minor epidote, muscovite	60 m	QA	25	200	120	5% py-pyrh.
			20	140	105		2% py-pyrh.
			30	130	100		
7000 g.ph.	GNEISSIC QTZ-AMPHIBOLITE with BIOTITE, CHLORITE, MAGNETITE and minor muscovite, epidote		QA	25	95	105	py & pyrnh. between 0.5% to 1.5%
			20	105	100		
			25	130	110		
			20	95	105		
	increasing BIOTITE and EPIDOTE	70 m	QA	25	145	120	
			20	175	115		
	35% QTZ, 15% BIOT/CHLORITE		QA	15	115	100	
	5% MAG. rest HORNBLLENDE and EPIDOTE.		QA	20	70	105	
		80 m	QA	30	90	115	minor to 1% py & pyr
			25	105	120		minor chpy. trace bornite?
Salinity 20,000 mg/l SS-77	40% QTZ 20% BIOTITE/CHLOR.		QA	30	60	105	
			25	80	110		0.5 - 1% py & pyr
			30	105	100		
		90 m	QA	25	110	115	
			30	90	105		
	QTZ-AMPH-BIOT-MAG GNEISS 45% qtz.		QA	25	70	95	minor to 1.5% py & pyr
	QTZ-BIOT-AMPH-MAG GNEISS pink feldspar?		QA	35	65	100	minor chpy.
	QTZ-BIOTITE/CHLORITE-MAGNETITE GNEISS		QA	40	50	125	
	minor SERICITE	100 m	QA	30	105	100	up to 2% py & pyr
	70% QTZ 25% BIOT/CHL		QA	25	30	40	with minor
	minor AMPHIBOLITE and rare limonite pseudomorphs after pyrite		QA	20	130	60	chpy. in some intervals
			25	110	85		
			15	70	70		
	70% QTZ 25% BIOT/CHL	110 m	QA	20	85	65	trace bornite?
	very rare, small GARNETS.		QA	25	65	70	minor chpy, py, pyr
			20	55	60		
			25	105	75		

DRILL TYPE: Schramm

DATE DRILLED:

20/3/77 & 4/3/77

DRILLER: R. Crawford

LOGGED: J. Oakes / T. Gai

SCALE

1:500

DRG N°

AS 6504

PROJECT SOUTH AUSTRALIA

AUSTRALIAN SELECTION (PTY) LTD

HOLE N° PTM-57

TRINITY EL. 274 LOG OF PERCUSSION DRILL HOLE

PROSPECT TRINITY MINE

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R.L. COLLAR:

INCLINATION: 60°

LOCATION 5 km SSE Grella H.S. CO-ORDS 196,500 S 159,000 W

DIRECTION: 090°N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Pb (ppm)	Cu (ppm)	Zn (ppm)	
	QUARTZ-BIOTITE-MAGNETITE GNEISS		0.1m	20	140	80	5% py-pyrrh, 0.5% chpy
	-25% biotite, 10% fg. mag, dissem sulphides, rest qtz	120m	X	25	7500	100	10% py-pyrrh, 0.5% chpy
	QUARTZ-BIOTITE-FELDSPAR-MAGNETITE		0.1m	20	1520	105	5% py-pyrrh, 0.5% chpy
	GNEISS -25% bte, 20% pink fsp, 10% fg. mag, rest qtz - dissem mg. sulphides		0.1m	25	1480	70	8% py-pyrrh, 1% chpy
	QUARTZ-FELDSPAR-MICA GNEISS		X	20	1200	80	5% py-pyrrh, minor chpy
	25% pink fsp, 15% mica, rest qtz		0.1m	15	1300	35	2% py-pyrrh, rare chpy
	END OF HOLE 129 metres	130m		25	680	50	
	Grit N is 040°N magnetic						
		140m					
		150m					
		160m					
		170m					
		180m					
		190m					
		200m					
		210m					
		220m					
		230m					

DRILL TYPE: Schramm

DATE DRILLED:

4th March 1977

DRILLER:

LOGGED: J.A. OAKES

R. CRAWFORD

DRG N° AS 6504

SCALE

1:500

PROJECT: SOUTH AUSTRALIA
TRINITY EL 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY MINE.
LOCATION 5 km SSE Corella H.S. CO-ORDS: 196 500 S 154 00 W

HOLE N° 111-58

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090° gN

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Pb (ppm)	Cu (ppm)	Zn (ppm)	
very small supply	QUARTZ-BIOTITE-SERICITE GNEISS	10 m	///	25	240	40	20% calcite & soil
	- minor magnetite & hematite, 15% sericite, 25% biotite, rest qtz		Qbs	20	100	45	2% lim. pseudos after py-pyrrh
	TALC-CHLORITE-MAGNETITE SCHIST		Tcsl	15	105	50	brown, soft H.W.
	QUARTZ-BIOTITE-SERICITE GNEISS		///	20	280	100	
	- 5% f.g. magnetite, ----- M.W.		Qbs	25	145	25	2% lim. pseudos after py-pyrrh
	15% sericite, 25% biotite S.W.		///	20	150	35	
	rest qtz		///	15	115	25	2% partially limonitized py-pyrrh
			Qbs	20	90	20	
			///	10	250	35	5% lim. py-pyrrh
			Qbs	15	50	40	2% " " "
		20 m	///	30	10	45	major " " "
	QTZ-BIOTITE-SERICITE-KYANITE M.W.		///	25	25	60	5% lim after sulphide
	GNEISS - sheared zone? - 10% S.W.		Qbs	20	10	65	3% lim py-pyrrh
	Kyanite, 15% serc, 20% bte, rest qtz M.W.		///	30	255	55	1% mol. 3% lim.
			///	25	1850	70	1% mol, minor az.
	QUARTZ-BIOTITE-SERICITE GNEISS		///	25	1820	100	S.W., 3% lim py-pyrrh
	- 5% f.g. magnetite, 15% sericite, 25% biotite, rest m.g.-c.g. qtz.		///	20	255	60	3% py-pyrrh.
	- m.g to c.g. disseminated py-pyrrh.		///	15	70	40	
	- fresh.		Qbs	20	20	45	2% pyrite-pyrrhobite
			///	15	20	40	
			///	20	15	30	
			///	25	80	50	
			Qbs	20	110	35	
			///	25	160	45	
		50 m	///	20	140	50	5% py-pyrrh.
			///	25	35	40	
			///	20	60	45	
			Qbs	20	50	40	3% c.g. py-pyrrh.
			///	15	30	35	
			///	20	40	35	
		60 m					
	END OF HOLE 60 metres						
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

DRILL TYPE: Schramm

DATE DRILLED: 4th March 1977

DRILLER: R. CRAWFORD

LOGGED: J. A. OAKES

SCALE 1:500

DRG N° AS 6505

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY MINE
LOCATION: 5 km SSE Corella H.S. CO-ORDS: 196,400 S 15625 W

HOLE N° PTM-59

R.L. COLLAR
INCLINATION: 60°
DIRECTION: 090°g.N.

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Pb (ppm)	Cu (ppm)	Zn (ppm)	
very small supply 25.67%	TALC-AMPHIBOLITE-CHLORITE-QTZ-MAG SCHIST -5% mag, 30% chlorite H.W. 30% amphibolite, rest white talc M.W. 10% green epidote	10 m	SSSS	25	80	110	20% calcare & soil
	TAC		25	120	115	brown & yellow, soft	
	Qm		30	110	140	chips, rare, lim.	
	SSSS		30	125	130	pseudos after py.	
	SSSS		30	95	150		
	QUARTZ-BIOTITE-SERICITE GNEISS -red & silvery sericite - pink garnets -minor mag, 25% biotite, minor garnets, 15% sericite, rest qtz. M.W.	20 m	SSSS	20	210	110	1% lim. pseudos after py-pyrrh.
	Qbs		20	140	100		
	SSSS		20	80	110	minor limonite pseudomorphs after py-pyrrh.	
	SSSS		20	75	110		
	Qbs		35	45	150	2% lim. pseudos after py.	
	QTZ-FELDSPAR-BIOTITE-SERICITE GNEISS	30 m	SSSS	30	50	105	
	SSSS		30	45	90		
	Qbs		30	70	120	S.W. rare lim. py.	
	A		20	70	105	2% c.g. py-pyrrh.	
	A		30	70	125	limonite 2 ed. S.W.	
	QUARTZ-CHLORITE-AMPHIBOLITE-MAGNETITE GNEISS -10% mag, 20% chl, 25% chl, rest qtz	40 m	QCAm	30	80	120	2% c.g. py-pyrrh
	SSSS		30	60	130	fresh py-pyrrh.	
	QbCm		30	200	135	3% m.g. py-pyrrh.	
	SSSS		80	50	105		
	SSSS		40	90	75	5% py-pyrrh.	
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS -10% f.g. magnetite, 15% sericite, minor small pink garnets, m.g.-c.g. dissem. sulphides, rest qtz	50 m	Qbsm	30	50	80	3% py-pyrrh.
	SSSS		25	55	60		
	SSSS		20	40	40	2% py-pyrrh.	
	SSSS		20	30	50	minor py-pyrrh.	
	Qbfs		20	20	40	2% py-pyrrh.	
	QUARTZ-BIOTITE-FELDSPAR-SERICITE GNEISS -15% pink feldspar, 15% sericite, 20% biotite, 10% magnetite rest qtz.	60 m	SSSS	20	10	40	
	SSSS		20	40	50		
	SSSS		25	40	45	5% py-pyrrh.	
	QbCf		30	25	100	3% py-pyrrh.	
	QbCf		30	10	40	5% py-pyrrh.	
	QUARTZ-BIOTITE-CHLORITE-FSPR-MAG. GNEISS	70 m	SSSS	40	35	60	3% m.g.-c.g.
	SSSS		25	15	40	dissem. py-pyrrh.	
	Qbsh		30	20	25		
	SSSS		30	50	50	5% py-pyrrh.	
	SSSS		30	20	40		
	QUARTZ-BIOTITE-SERICITE-FELDSPAR-MAGNETITE GNEISS -as for interval 46-56 metres	80 m	SSSS	25	185	60	5% py-pyrrh, 0.5% chl.
	SSSS		25	350	50	5% py-pyrrh.	
	SSSS		40	200	45	minor chpy	
	SSSS		40	60	50		
	QbCm		35	80	50	2% py-pyrrh.	
	QUARTZ-BIOTITE-CHLORITE-MAGNETITE GNEISS -20% biotite, 15% chlorite, 10% f.g. magnetite, rest qtz	90 m	SSSS	35	40	60	
	SSSS		25	20	60	1% py-pyrrh.	
Salinity 19,000 mg/l 5.5-11	END OF HOLE 84 metres	100 m					
		110 m					
DRILL TYPE: Schramm				DATE DRILLED: 5th March 1977			
DRILLER: R. CRAWFORD				LOGGED: J.A. OAKES			
SCALE: 1:500		DRG N° AS 6506					

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090° N grid

DRILL TYPE: Schramm	DATE DRILLED: 5th & 6th MARCH 1977	
DRILLER: R. CRAWFORD	LOGGED J. A. OAKES	
	DRG N°	AS 6507

HOLE NO. PM-61

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 090°N grid.

SCALE		1:500	DRILL TYPE: Schramm DRILLER: R. CRAWFORD		DATE DRILLED 6th March 1977 LOGGED J.A. OAKES
			DRG N°		AS 6508

PROJECT: SOUTH AUSTRALIA
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: TRINITY MINE
LOCATION: 5.2 km SSE Corella H.S. CO-OROS: 197,200 S. 1725 W

HOLE N° PTM-62

R.L. COLLAR
INCLINATION: 60°
DIRECTION: 090°N grid

118

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Pb (ppm)	Cu (ppm)	Zn (ppm)	
very small supply 35-5-72	QUARTZ-BIOTITE-SERICITE GNEISS - brown - H.W. - 15% serc, 25% bte, rest qtz		Qbs	25	15	30	30% calcare & soil
			///	30	20	40	
	FELOSPAR-BIOTITE-QUARTZ GNEISS		FbQ	25	10	25	30% bte, 25% qtz
	QUARTZ-BIOTITE-SERICITE-GARNET		///	20	25	40	
	GNEISS - 15% small to m.g. anhedral pink garnets, 15% sericite, 25% biotite, rest qtz.	10 m	Qbs	25	15	30	
			///	20	10	25	
			///	25	10	20	
	M.W. ----- 10% garnet		///	20	25	35	
			///	35	95	55	
		20 m	Qbs	30	30	45	
			///	30	55	40	minor lim pseudof of py.
			///	25	35	25	minor limonitized py.
	QUARTZ-BIOTITE-SERICITE GNEISS - minor f.g. magnetite, 15% sericite, 25% biotite, rest c.g. - m.g. qtz. f.g. - m.g. py-pyrrh disseminations		///	25	120	20	minor partially limonitized py
		30 m	Qbs	30	40	30	rare py-pyrrh.
			///	35	25	50	minor py-pyrrh, 10% mag.
			///	40	50	40	1% py-pyrrh
			///	35	55	50	3% py-pyrrh.
	QUARTZ-BIOTITE-SERICITE-GARNET-MAGNETITE GNEISS - 15% small - m.g. pink garnets, 20% biotite, 15% sericite, 5% f.g. magnetite, rest qtz.	40 m	Qbsm	30	40	85	1% py-pyrrh.
			///	25	45	25	minor py-pyrrh.
			///	20	50	30	1% py-pyrrh
			///	40	55	30	5% py-pyrrh, minor clp.
	QUARTZ-BIOTITE-SERICITE-MAGNETITE GNEISS - 3-5% f.g. magnetite, 25% black biotite, 15% silvery sericite, rest m.g. - c.g. milky & clear qtz.	50 m	Qbsm	30	240	20	5% py-pyrrh
			///	30	130	25	3% py-pyrrh
			///	50	50	25	5% py-pyrrh
			///	30	50	35	2% m.g. rare c.g. disseminated - py-pyrrh.
			///	30	10	40	2% py-pyrrh
			///	35	10	30	
			///	30	10	30	
		60 m	Qbsm	30	10	25	
			///	30	40	30	
			///	40	25	40	
			///	20	50	30	minor py-pyrrh
END OF HOLE 63 metres							
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

DRILL TYPE: Schramm

DATE DRILLED: 6-7th March 1977

DRILLER: R. CRAWFORD

LOGGED: J. A. OAKES

SCALE 1:500

DRG N° AS 6509

PROJECT: SOUTH AUSTRALIA
TRINITY E.L. 174
PROSPECT: TRINITY MINE...

AUSTRALIAN SELECTION (PTY) LTD

LOG OF PERCUSSION DRILL HOLE

LOCATION 5.2 km SSE Corella H.S. CO-ORDS: 198,150 S.....17050 W

HOLE N° PTM-63

R.L. COLLAR.....
INCLINATION: 60°
DIRECTION: 270° grid N.

119

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Pb (ppm)	Cu (ppm)	Zn (ppm)	
1000 g/l p.h. 15.5.77	AEOLIAN CLAYEY SAND - red - m.g. - 20% clay			25	35	55	minor calcareate
	BIOTITE - QUARTZ - SERICITE SCHIST - H.W.		SSSSS	30	200	50	
	40% biotite, 35% f.g. qtz, rest sericite - schistose texture - no chips		bQs	35	290	45	
			SSSSS	25	150	40	2% lim pseudos of py
	QUARTZ - BIOTITE - SERICITE GNEISS - M.W.	10 m	+/+	35	130	45	2% lim. pseudos after py.
	minor mag & hem, 25% biotite, 15% sericite		Qbs	30	80	50	
			+/+	25	20	55	rare partially lim py
	BIOTITE - QUARTZ - SERICITE SCHIST - S.W.		bQs	25	90	60	rare partially limonitized py.
	- as for 2 - 8 m.		SSSSS	20	75	90	
	QUARTZ - BIOTITE - SERICITE GNEISS - fresh.	20 m	+/+	25	15	55	5% py - pyrrh.
Solubility 9,500 mg/l 5.5.77	as for 8 - 14 m.		Qbs	25	10	45	2% pyrrh - py minor contam.
			+/+	20	80	35	
	QUARTZ - FELDSPAR - MICA GNEISS -		+/+	25	50	25	30% red sand contam.
	20% pink feldspar, 15% micas, rest c.g. qtz - hard.	30 m	Qs	20	55	40	
			+/+	25	90	40	rare py - pyrrh. foam injection used.
			+/+	20	70	35	
	QUARTZ - BIOTITE - SERICITE GNEISS -		+/+	35	50	45	2% py - pyrrh.
	- 2-3% f.g. magnetite, 15% sericite, 25% biotite, minor chlorite & feldspar, rest qtz	40 m	+/+	30	65	40	3% py - pyrrh.
			Qbs	25	45	45	2% py - pyrrh.
			+/+	35	40	55	
	only minor red aeolian sand contamination - due to use of foam.		+/+	25	120	50	
			+/+	30	150	40	1% m.g., rare c.g. disseminated py - pyrrh.
			Qbs	30	40	45	
			+/+	30	60	40	
		50 m	+/+	30	50	30	
			+/+	30	60	50	minor py - pyrrh.
			Qbs	30	40	40	
			+/+	25	40	50	
			+/+	25	50	40	rare py - pyrrh.
		60 m	+/+	30	40	40	
END OF HOLE 60 metres							

DRILL TYPE: Schramm

DATE DRILLED:

7th March 1977

DRILLER:

LOGGED J.A. OAKES

R. CRAWFORD

DRG. N° AS 6510

SCALE

1:500

PROJECT: SOUTH AUST. TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE

PROSPECT: STAR

LOCATION 5km. SSW Garella H.S. CO-ORDS: M.189505 0000W

HOLE N. 1111-64

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 180° grid N

120

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Pb (ppm)	Cu (ppm)	Zn (ppm)	
very small supply 230-25.5.77	QUARTZ-BIOTITE-SERICITE GNEISS brown, H.W., 30% bte	10m	/	50	100	110	20% calcite
			/	40	60	115	
	25% biotite, 10% sericite, M.W.		Qbs	55	105	155	minor limonite staining after sulphide?
	minor feldspar partially kaolinized, rest c.g. qtz		/	55	115	210	
			/	50	290	230	
			/	75	15	115	
			/	65	25	110	
	METAQUARTZITE - white - hard - 10% mica, 10% feldspar, rest c.g. qtz - M.W.		/	60	60	220	
			/	40	55	195	
	QUARTZ-BIOTITE-SERICITE GNEISS		/	60	100	260	
1000 g.p.h.	25% biotite, 10% sericite, minor feldspar, rest c.g. qtz - gneissic texture	20m	/	70	145	550	
			Qbs	110	30	125	
			/	65	85	140	
			/	60	250	150	
			/	80	365	210	
			Qbs	40	75	180	
			/	35	50	155	1% py-pyrrh.
			/	30	25	160	
			/	35	20	210	
	30% biotite, 15% sericite, softer.		Qbs	70	140	570	
1000 g.p.h.		40m	/	50	20	185	
			/	55	40	250	
	CHLORITE-BIOTITE-QUARTZ SCHIST.		Qbs	35	15	490	
	QUARTZ-BIOTITE-SERICITE SCHIST - 40% biotite, 15% sericite, rest qtz.		/	45	30	250	
			/	40	40	110	
	QUARTZ-BIOTITE-SERICITE GNEISS - 25% biotite, 15% sericite, rest c.g. qtz, f.g. - m.g. disseminated py-pyrrh. minor feldspar & chlorite		/	60	25	125	minor py-pyrrh.
			Qbs	65	40	110	2% py-pyrrh.
			/	50	25	95	minor py-pyrrh.
			/	60	30	120	
			/	80	25	220	rare py-pyrrh.
1000 g.p.h.	QUARTZ-BIOTITE-SERICITE-GARNET GNEISS - minor tourmaline, 3% pink m.g. garnets, 25% biotite, 15% sericite, rest qtz	60m	/	75	60	1750	rare py-pyrrh.
			Qbs	80	25	850	
			/	60	115	250	
			/	75	90	280	2% py-pyrrh.
			/	70	1750	175	1% chpy, 4% py-pyrrh.
			/	50	1770	170	minor chpy, 2% py-pyrrh.
			/	80	1400	280	2% chpy, 20% py-pyrrh.
			Qm	60	11700	170	1% chpy, 10% "
			/	690	6900	440	0.5% chpy, 8% "
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST - soft - 30% sericite, 30% f.g. qtz, 10% f.g. magnetite, rest biotite - schistose texture.		/	750	6100	750	3% f.g. to m.g. disseminated py-pyrrh.
1000 g.p.h.		80m	/	350	2930	360	
			/	365	2620	260	
			/	95	660	110	
	QUARTZ-BIOTITE-GARNET-MAGNETITE GNEISS - 25% biotite, 15% m.g. pink garnets, 10% magnetite, rest qtz		/	75	225	85	2% py-pyrrh.
			Qbm	50	175	80	
			/	35	145	100	
	BIOTITE-SERICITE-QUARTZ-MAGNETITE SCHIST as for 78-86m.		/	40	140	75	1% py-pyrrh.
			/	45	105	80	
			/	50	85	60	
			/				
Salinity 25,000 mg/l 5.5.77	END OF HOLE 98 metres	100m					
Salinity 25,000 mg/l 5.5.77		110m					

DRILL TYPE: Schramm

DATE DRILLED:

7th-8th March 1977

DRILLER:

LOGGED: J.A. OAKES

B. CRAWFORD

SCALE

1:500

DRG N°

AS 6511

PROJECT: SOUTH AFRICA
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: STAR
LOCATION 5 km S Gertella H.S. CO-ORDS M18900 S 100 W

HOLE N° 171 65
R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 180° grid N

121

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Ni (ppm)	Cu (ppm)	Zn (ppm)	
No water (hole sealed)	QUARTZ - BIOTITE - SERICITE GNEISS - yellow - H.W. - 15% seric, 25% bto, rest qtz		7/7 Qbs				40% calcrete & soil
			7/7				20% metagortzite
	METAQUARTZITE - very hard - M.W. slightly foliated, - 15% feldspar pale yellow. 10% mica, rest c.g. qtz - - - white S.W.	10 m					limonite staining
	QUARTZ - BIOTITE - SERICITE GNEISS - S.W. - 25% biotite, 15% sericite, minor feldspar, rest c.g. qtz	20 m	7/7 Qbs				
	END OF HOLE 22 metres Hole abandoned - bit shankd off & left in hole.		7/7				
		30 m					
		40 m					
		50 m					
		60 m					
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

DRILL TYPE: Schramm

DATE DRILLED: 8th March 1977

DRILLER: R. CRAWFORD

LOGGED J.A. OAKES

SCALE

1:500

DRG N°

AS. 6500

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Pb	Zn	
very small supply 5.5m - 25.5m	METAQUARTZITE - H.W. - most c.g. qtz, minor bte	10 m	55	30	80		
	QUARTZ - BIOTITE - SERICITE GNEISS - H.W.		55	40	340		
	METAQUARTZITE - white - very hard -		40	40	120		
	5% mica, 15% feldspar, granular texture		50	40	100		
	although biotites aligned - M.W.		40	30	160		20% mica
			10	20	40		
	QUARTZ - BIOTITE - SERICITE GNEISS M.W.	20 m	100	20	60		40% qtz-bte-ser gneiss
	-25% biotite, 15% sericite, minor feldspar		200	35	100		
			60	20	50		
			15	20	60		
			15	25	40		
			20	30	110		
small supply 5.5m - 42m	QUARTZ VEIN - minor feldspar & mica	30 m	-a-	15	25	60	
	QUARTZ - BIOTITE - SERICITE GNEISS		30	20	80		
	-25% biotite, 15% sericite, minor feldspar, rest c.g. qtz - mica aligned → foliation.		80	30	80		minor partially limonitized py
			140	30	140		
			90	30	100		
			50	40	100		
	fresh.	40 m	70	50	195		minor f.g. pyrite
			65	50	130		
			40	60	115		1% py.
	QUARTZ - BIOTITE - SERICITE - SILLIMINITE GNEISS - 10% silliminite, 15% sericite. 20% biotite, rest qtz.		50	75	150		2% py, rare sph.
			100	60	125		1% py.
			50	80	440		2% py, minor sphalerite
small supply 5.5m - 80m	QUARTZ - MICA - SILLIMINITE - FLUORITE GNEISS	50 m	40	75	400		
	-30% mica, 20% silliminite, 5% purple fluorite, minor calcite, rest qtz		50	85	320		4% py, minor sphalerite
			60	110	300		
			50	130	470		2% py, rare sph.
			60	150	390		
			40	170	380		2% f.g. pyrite
	QUARTZ - BIOTITE - SERICITE GNEISS as for interval 26-42m	60 m	40	130	330		
	QUARTZ - BIOTITE - SERICITE - SILLIMINITE GNEISS - as for interval 42-50m.		55	115	500		1% pyrite
			30	110	300		
			40	95	370		
			40	95	310		2% pyrite, rare sphalerite.
			50	110	350		
small supply 5.5m - 105m	QUARTZ - BIOTITE - SERICITE SCHIST - 30% biotite, 20% sericite, rest f.g. qtz - softer	70 m	55	90	370		
	QUARTZ - BIOTITE - SERICITE GNEISS - minor silliminite, 25% biotite, 15% sericite, minor feldspar, rest qtz		50	80	200		1% pyrite
			50	70	260		
			60	60	160		2% pyrite, f.g.
			70	70	160		
			160	70	135		1% pyrite
	QUARTZ - MAGNETITE GNEISS - 5% f.g. magnetite, 5% mica, rest m.g. qtz	80 m	1370	60	160		3% py, minor chpy.
			1360	70	760		
			1470	80	630		2% py-pyrph, minor chpy, rare sph. disseminated
			1390	65	510		
			1200	70	350		
			930	80	270		2% py, minor chpy
small supply 5.5m - 110m	BIOTITE - SERICITE - QTZ - MAGNETITE SCHIST - 30% qtz, 30% sericite, 5% mag, rest biotite	90 m	920	70	170		
	QUARTZ - BIOTITE - GARNET - MAGNETITE GNEISS - 15% c.g. pink garnet porphyroblasts, 5% f.g. magnetite, 25% biotite, 10% sericite, rest qtz.		1050	55	120		4% py, minor chpy
			830	50	120		
			920	50	120		2% f.g.-m.g. py. rare chpy.
			600	40	90		
	END OF HOLE 105 metres	110 m					

S - silliminite s - sericite
F - fluorite f - feldspar

DRILL TYPE: Schramm

DATE DRILLED:

DRILLER:

LOGGED JA. OAKES

R. CRAWFORD

DRG N°

AS 6501

SCALE

1:500

PROJECT: SOUTH AUSTRALIA
 TRINITY EL. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: STONE TANK
 LOCATION 7km SSE Grotella H.S CO-ORDS: M19750 S 4550 E

HOLE NO. P1M-61
 R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 090° grid N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Pb	Zn	
Small Supply	AMPHIBOLITE - H.W. - 5% hornblende after magnetite, 15% plag., 15% qtz, rest hornblende	10 m	A A	75	25	410	20% calcite
			A A	110	30	520	
	QTZ-SERICITE-AMPHIBOLITE-MAGNETITE GNEISS - 25% ser., 15% amph, 5% mag, rest qtz	10 m	QsAm	3110	30	880	5% disseminated limonite gossan
			1111	360	30	900	
	AMPHIBOLITE - M.W. - 5% f.g. magnetite, 15% plag, 15% qtz, rest hornblende	10 m	A A	250	25	990	
			A A	385	40	880	
	BIOTITE-GARNET-QTZ-MAGNETITE SCHIST - 20% pink small garnets, 20% qtz, 5% f.g. magnetite, rest biotite - schistose & lepidoblastic texture	20 m	QsAm	210	30	2400	30% amphibolite
			1111	3440	40	1440	5% gossan
		20 m	QsAm	920	50	710	
			1111	165	40	180	
		20 m	QsAm	180	30	310	
			1111	590	25	420	3% py, minor chpy & sph.
		20 m	QsAm	1550	20	1390	5% py, minor chpy & sph.
			1111	700	25	650	2% py.
	GARNETIFEROUS AMPHIBOLITE - 15% small pink garnets, 5% f.g. magnetite, 15% plagioclase, rest hornblende, 15% qtz - fresh.	30 m	A A	800	30	690	2% f.g. pyrite
			A A	360	30	590	
		40 m	A A	280	20	460	
			A A	305	20	200	
		40 m	A A	160	25	145	3% py.
			A A	220	30	170	2% f.g. py.
		40 m	A A	210	25	310	
			QA	240	30	360	
		50 m					
		60 m					
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

END OF HOLE 44 metres

DRILL TYPE: Schramm
 DATE DRILLED: 16th March 1977
 DRILLER: R. CRAWFORD
 LOGGED: J.A. OAKES
 DRG NO. AS 6502

SCALE 1:500

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PIY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: STONE TANK
LOCATION: 7 km. SSE Gorella H.S. CO-ORDS. M20000 S 124 4550E

HOLE N° P7M-68
R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090° grid N

DEPTH METRES	LOG	GEOCHEM			REMARKS
		Cu	Pb	Zn	
500 g.p.h.	A	90	35	150	20% calcarete
	A	130	40	190	
	A	150	40	180	
	A	155	30	150	
	A	125	35	160	10% green epidote
	A	170	30	140	
1000 g.p.h.	CA	170	30	135	3% gossan, minor sph., minor MnO ₂
	CA	160	40	150	
	A	195	30	120	
	A	155	30	150	
	A	280	40	160	
	A	140	35	100	minor py, 20% vein qtz
	A	190	30	120	
	CA	200	35	105	minor pyrite
	CA	230	35	120	
	CA	180	35	120	
	CA	170	40	140	minor to 10% contam from 12-16m.
	CA	180	40	130	
40 m	CA	145	40	115	
	CA	150	35	110	
	CA	300	40	120	
	CA	250	35	120	
	CA	150	50	120	Minor py
	CA	135	45	120	20% contam
50 m	CA	135	45	120	
60 m					
70 m					
80 m					
90 m					
100 m					
110 m					

SCALE	1:500	DRILL TYPE: Schramm	DATE DRILLED: 17th & 21st March 1977
		DRILLER: R. CRAWFORD	LOGGED: J. A. OAKES
		DRG N°	45.6503

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
 TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: SANDY CREEK 126
 LOCATION 6.8 km SSE Corella H.S. CO-ORDS: M20900 6100E

HOLE NO. PTM-70

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 180° N grid.

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Pb	Zn	
	CALCRETE - 20% red soil & qtz rubble		820	780	55	80	30% gneiss
	QUARTZ-BIOTITE-SERICITE GNEISS		820	610	35	50	yellow, H.W.
	-25% bto, 15% serc, rest qtz M.W.		820	820	40	50	rare mal & gossan.
	BIOTITE-SERICITE-QUARTZ-GARNET		820	250	30	45	
	SCHIST - 10% small, pink, rounded	10 m	820	200	45	50	
	almandine garnets, 30% sericite, M.W.		820	610	50	50	minor malochite & gossan
	25% f.g. qtz, rest biotite		820	185	80	95	
	-schistose texture S.W.		820	270	100	110	
			820	175	70	70	
		20 m	820	300	45	60	
	fresh 20% garnet		820	1640	40	65	minor chpy & chalc, 2% py
	10% garnet		820	1280	30	50	minor py-pyrrh.
	20% garnets, less biotite		820	1090	40	80	
		30 m	820	130	40	50	0.5% chpy, 3% py.
			820	350	55	65	minor chpy, 1% py
			820	300	40	55	rare chpy, 1% py
			820	110	40	55	
	10% vein qtz		820	165	45	60	minor f.g. pyrite
	10% garnets		820	30	50	65	
		40 m	820	50	40	50	
	less 20% garnet		820	340	30	50	minor chpy, 1% py
	25% garnet		820	150	40	65	rare chpy, 5% py
	20% garnet		820	730	50	85	rare chpy, 3% py
	QUARTZ-BIOTITE-SERICITE-GARNET		820	250	35	60	rare py.
	GNEISS - 10% small almandine garnets,	50 m	820	80	30	80	
	25% biotite, 15% sericite, rest m.g. -		820	155	50	140	minor py (f.g.)
	2-9 qtz - gneissic texture		820	175	45	120	
	BIOTITE-GARNET-QUARTZ SCHIST		820	70	60	105	
	-30% small pink almandine garnets,	60 m	820	90	70	100	minor. f.g. disseminated py.
	30% f.g. qtz, 30% biotite, 10% sericite		820	90	70	95	
	-schistose texture		820	50	60	65	
	END OF HOLE 62 metres						
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

DRILL TYPE: Schramm

DATE DRILLED:

21st March 1977

DRILLER:

LOGGED: J.A. OAKES

R. CRAWFORD

SCALE 1:500

DRG NO. A5 6517

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090° N grid

S-sericite S-sillimanite		sph-sphalerite gal-galenite		DRILL TYPE: Schramm	DATE DRILLED: 22nd March 1977
SCALE 1:500				DRILLER R. CRAWFORD	LOGGED J. A. OAKES
				DRG N°	A5. 6518

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: SANDY CREEK
LOCATION: 7 km SSE GRENH. S CO-ORDS: M21600S 5200E

HOLE NO PTM-72

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 180° N grid

METER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Zn	Pb	
2000 g. p.h.	QUARTZ-MICA GNEISS 30% calcite		128	3350	115	40	5% gossan, 2 1/2% mal
	15% mica, minor MnO ₂ brown H.W.		Q	10500	270	45	5% gossan, 2% mal
	rest m.g. - c.g. qtz M.W.		7/11	2060	95	60	5% gossan, minor mal
	QUARTZ-BIOTITE-SERICITE SCHIST		Q	3220	85	45	5% gossan, 1% mal
	-30% biotite, 25% sericite, rest f.g. qtz	10 m	Qbs	300	95	30	minor gossan & mal
	-schistose texture - M.W.		Qbs	820	115	40	3% lim. pseudos
			Qbs	1250	115	50	after pyrrh, minor Mn
	QUARTZ-BIOTITE-SERICITE-MAGNETITE	M.W.	Qbsm	640	100	45	3% lim. pseudos of r
	GNEISS - 25% biotite, 15% sericite		Qbsm	370	95	30	minor limonitized py.
	3% mag, some altered to hematite, S.W.	20 m	Qbsm	295	55	40	2% partially
	rest c.g. qtz		Qbsm	1900	290	60	limonitized pyrrh.
	QUARTZ-BIOTITE-SERICITE-MAGNETITE	S.W.	Qbsm	400	125	40	minor lim. pyrrh.
	SCHIST - 30% biotite, 25%		Qbsm	265	140	75	minor pyrrh.
	sericite, 3% f.g. magnetite		Qbsm	1500	135	55	minor m.g.
	rest f.g. qtz fresh	30 m	Qbsm	265	140	35	disseminated pyrrh.
	QUARTZ-FELDSPAR-BIOTITE-SERICITE		Qbs	385	130	40	minor pyrrh, rare chpy
	GNEISS - 25% feldspar, 25% biotite,		Qbs	340	470	65	minor pyrrh.
	10% sericite, rest m.g. - c.g. qtz		Qbs	900	610	85	
	-silvery colour.		Qbs	760	470	50	1% pyrrh, rare chpy
		40 m	Qbs	700	430	65	minor pyrrh.
	BIOTITE-AMPHIBOLE-Qtz-MAG. SCHIST.		BAQm	720	630	65	1% pyrrh.
	-black - 5% mag, 15% qtz, 30% hbl, 5% qtz		BAQm	1200	870	85	minor pyrrh.
	QUARTZ AMPHIBOLITE - 5% mag, 15%		AQ	310	180	125	1% pyrrh
	epidote, 20% qtz, 10% hbl, rest hornblende		AQ	265	170	110	minor pyrrh
	BIOTITE AMPHIBOLITE - 30% biotite	50 m	Ab	255	195	125	2% pyrrh, rare chpy
	10% qtz, 5% f.g. magnetite, minor		Ab	680	360	105	minor disseminated m.g. pyrrhite
	plagioclase, rest hornblende		Ab	700	200	125	
			Ab	1100	360	150	
			Ab	1500	500	295	
			Ab	1300	470	320	
	QUARTZ AMPHIBOLITE - as before	60 m	AQ	970	540	355	minor pyrrh
	END OF HOLE 62 metres						
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

DRILL TYPE: Schramm

DATE DRILLED:

22nd March 1977

DRILLER:

LOGGED: J.A. OAKE

R. CRAWFORD

SCALE

1:500

DRG NO

A.S. 6519

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
 TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: BALLARA
 LOCATION: 7.5km S.W. Ballara H.S. CO-ORDS: 274,000 S 42,650 W

HOLE N° PTBA-1
 R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 090° N grid

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Zn	Pb	
	CALCRETE - 20% red soil & qtz rubble		EE	70	110	35	25% below gneiss
	QUARTZ-BIOTITE-SERICITE-GRAPHITE		+/+	50	170	45	2% Fe & Mn staining
	GNEISS - white & yellow - H.W. - 25% biotite, 15% sericite, 10% graphite, rest qtz		Qbsg	50	140	35	
			+/+	90	700	500	
	QTZ-BIOTITE-SERICITE-green FELDSPAR	10m	+/+	105	1700	265	5% siliceous Fe-Mn goss.
	-GRAPHITE GNEISS brown, M.W.		+/+	85	1530	60	
	-25% biotite, 15% sericite, 10% green feldspar, 10% graphite, rest qtz		+/+	50	550	60	minor Fe-Mn gossan
			Qbsg	90	560	75	
			+/+	65	970	40	
		20m	+/+	90	460	35	5% siliceous Fe-Mn gossan
			+/+	110	1470	35	
	QUARTZ-BIOTITE-SERICITE-GRAPHITE GNEISS - silvery colour -		+/+	95	1260	35	
	25% biotite, 15% sericite, 10% graphite, rest M.W.	30m	Qbsg	45	880	35	2% red & black siliceous Fe-Mn gossan
	M.g. - c.g. qtz S.W.		+/+	60	680	30	
			+/+	160	170	35	
			+/+	90	900	35	
			+/+	95	1340	45	3% limonitized py
			Qbsg	195	1900	45	2% py, minor sph.
			+/+	75	3200	40	5% partially minor limonitized py, sph.
		40m	+/+	105	3300	40	
			+/+	65	2800	40	5% py, minor sph
	QUARTZ-BIOTITE-SERICITE-green FELDSPAR-GRAPHITE GNEISS -		+/+	60	630	30	5% f.g. pyrite as aggregates, rare sphalerite
	15% green feldspar, 10% graphite, 15% sericite, 25% biotite, rest M.W.	50m	Qbsg	50	310	35	
	M.g. - c.g. qtz rare garnets		+/+	50	170	35	
			+/+	55	135	30	
			+/+	55	80	25	5% pyrite, minor sphalerite
			Qbsg	80	740	30	
			+/+	60	400	25	3% py, rare sph
			+/+	30	170	35	5% py, rare sph.
		60m	+/+	40	115	25	
	QUARTZ-BIOTITE-SERICITE-GRAPHITE GNEISS - 25% biotite, 20% sericite, 10% graphite, rest M.g. - c.g. qtz		+/+	45	140	30	5% py, minor sph
			+/+	45	130	20	
			Qbsg	55	420	25	4% py, rare sph.
			+/+	65	195	20	6% py, minor sph
	QUARTZ-MICA-GRAPHITE GNEISS - 15% graphite, 20% bte/serc, rest c.g. qtz	70m	+/+	70	190	30	6% f.g. py as aggregates, minor sph.
			Qbsg	60	210	35	
			+/+	90	170	35	
	END OF HOLE 74 metres						
		80m					
		90m					
		100m					
		110m					

5000 g.p.h.

LEGEND
 g - graphite sph - sphalerite
 f - feldspar

SCALE 1:500

DRILL TYPE: Schramm

DRILLER: R. CRAWFORD

DATE DRILLED: 23rd March 1977

LOGGED: J. A. OAKES

DRG N° A.S. 6525

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PIY) LTD
TRINITY E.L.274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: BALLARA
LOCATION: 5 km. SW. Ballara H.S. CO-ORDS: 266,000 S 130 43,350 W

HOLE N° P78A2

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 090° g N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Zn	Pb	
Dry Hole	CALCRETE - 30% qtz rubble & red soil		5.2	45	190	35	minor gneiss
	GARNET-QUARTZ-BIOTITE GNEISS		0.70	35	130	30	
	-20% m.g. qtz, 20% biotite, 10% sericite		0.70	40	210	35	
	rest c.g. pink almandine garnet		Qb	35	175	30	
	porphyroblasts, minor staining - - - - - m.w.	10 m	0.70	70	420	45	minor lin after sulphide & spessartite?
	QTZ-BIOTITE-SERICITE-GRAPHITE GNEISS		0.70	65	490	45	
	-10% black graphite, 25% biotite, 15% sericite, rest m.g. - c.g. qtz		0.70	105	700	90	3% siliceous Fe-Mn gossan
			Qbsg	95	470	40	
			0.70	120	800	65	
	QTZ-BIOTITE-SERICITE-FELDSPAR GNEISS	20 m	0.70	95	1070	75	
	QTZ-BIOTITE-SERICITE-GRAPHITE GNEISS		Qbsf	65	820	60	
	QTZ-green FELDSPAR-MICA GNEISS - m.w.		Qbsg	240	1720	60	minor Fe-Mn gossan
	QUARTZ-BIOTITE-GARNET-GNEISS		Qfb	730	1620	145	2% Fe-Mn gossan
	-10% m.g. pink almandine garnet		0.70	150	950	335	minor catassite?
	porphyroblasts, 25% biotite, minor sericite, rest m.g. - c.g. qtz	30 m	Qb	90	1400	280	
			0.70	115	990	105	have Fe & Mn stained pyrite
			Qbf	75	760	140	
			0.70	115	1140	200	
	QTZ-BIOTITE-green FELDSPAR-GRAPHITE SCHIST		Qbsf	1250	580	65	5% py, minor sph.
	AMPHIBOLITE - hard - 10% qtz	40 m	A	225	400	55	5% py, minor sph.
	blue-black colour - - - - -		A	50	300	45	2% py, minor sph.
	5% f.g. magnetite, 15% plagioclase, rare almandine, rest hornblende		A	30	270	40	1% f.g. pyrite
			A	30	195	35	
			A	25	280	35	
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS		Qbm	35	270	45	3% py, rare sph.
	-25% bte, 15% garnet, 5% mag, rest qtz	50 m	0.70	35	190	45	
	AMPHIBOLITE - 10% garnet, 20% qtz		A	65	340	50	2% py
	10% f.g. py, 5% mag, rest hble.		A	80	380	50	
	QTZ-BIOTITE-GARNET-MAGNETITE GNEISS		0.70	80	390	45	5% py
	END OF HOLE 57 metres	60 m					
	Slow penetration rate						
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

LEGEND

g - graphite
sph - sphalerite

DRILL TYPE: Schramm

DATE DRILLED: 23rd-24th March

DRILLER: R. CRAWFORD

LOGGED: J.A. OAKE

SCALE

1:500

DRG N°

AS 6526

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: BALLARA
LOCATION: 4.7 km SW Ballara H.S. CO-ORDS: 265 000 S 43 750 W

HOLE N° PTBA-3
R.L. COLLAR
INCLINATION: 60°
DIRECTION: 090° grid N

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Pb	Zn	
No water > 30m 30.5.77	CALCRETE - 20% red soil & qtz rubble		80	65	150	38% garnet-qtz gneiss	
	GARNET-QUARTZ-BIOTITE GNEISS - H.W.		40	50	140	brown & yellow	
	QTZ-BIOTITE-SERICITE-GARNET SCHIST - rare graphite, 15% small garnets - H.W.		15	50	115	brown & yellow	
	QTZ-BIOTITE-SERICITE-GRAPHITE brown		30	50	175	30% biotite	
	SCHIST - 10% graphite M.W. grey	10 m	115	85	200	5% siliceous Fe-Mn gossan	
	20% sericite		170	100	230		
	25% biotite, rest 20% graphite f.g. qtz		90	75	610	5% Fe-Mn gossan	
			60	80	260	minor Fe-Mn gossan	
			130	70	1490		
	QUARTZ-VEIN - 40% schist - M.W.	20 m	30	95	920		
	QTZ-BIOTITE-SERICITE-GRAPHITE SCHIST		50	60	450	2% gossan	
	QTZ-green FELDSPAR-MICA SCHIST - 30% green feldspar altered to clay, 20% mica, rest qtz - sheared & broken - M.W.		90	95	680	20% vein qtz	
	QUARTZ-VEIN - red - M.W.		30	110	1190	minor gossan, green	
	QTZ-BIOTITE-SERICITE-GRAPHITE GNEISS		90	70	680	10% gossan, rare cer.	
	QUARTZ-BIOTITE-SERICITE-GRAPHITE SCHIST - 30% biotite, 20% sericite, 10% graphite, rest f.g. qtz - S.W. Fresh.	30 m	110	100	320	gray	
			50	60	640	5% Fe-Mn gossan	
			30	80	690		
			50	70	910		
			30	80	270		
			70	80	135		
			40	65	170		
			15	105	480		
	AMPHIBOLITE - blue black - 15% qtz, 15% feldspar, 10% garnet, rest hornblende		80	45	530		
	QTZ-BIOTITE-SERICITE-GRAPHITE SCHIST		70	55	570	30% schist, minor sph.	
	QTZ-BIOTITE-green FELDSPAR SCHIST - minor graphite - soft - sheared - M.W.	50 m	90	50	580		
	QUARTZ-BIOTITE-SERICITE-GRAPHITE SCHIST - 10% graphite, minor feldspar		30	50	620	10% Fe-Mn gossan	
	30% biotite, 20% sericite rest f.g. qtz		40	50	730	5% Fe-Mn gossan	
	15% graphite brown, M.W. shear zone		45	50	320	20% amphibolite	
	QUARTZ-BIOTITE-SERICITE-GRAPHITE GNEISS - 10% graphite, 20% biotite, 15% sericite, rest n.g.-c.g. qtz	60 m	130	55	150		
			75	75	290		
			45	40	290		
			30	80	155		
			110	85	130	5% siliceous Fe-Mn gossan	
			110	160	175		
			130	100	110		
			30	55	60	rare sph.	
			35	40	60		
			20	40	70		
END OF HOLE 75 metres							
		80 m					
		90 m					
		100 m					
		110 m					

LEGEND
g - graphite

DRILL TYPE: Schramm

DATE DRILLED: 24th March 1977

DRILLER: R. CRAWFORD

LOGGED: J. A. OAKES

SCALE 1:500

ORG N° A5 6527

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: BALLARA
LOCATION 5.3 km SW, Ballara H.S. CO-ORDS 267,000 S 43,950 W

HOLE N° PTBA-4

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090° N grid

METER LOG	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Zn	Pb	
	CALCRETE - 20% red soil & qtz rubble		S.C.C.	50	125	50	20% amphibolite
	AMPHIBOLITE c.w pale brown, altered to clay		A	150	670	60	
	green & brown, H.W.		A	220	740	90	
	green & brown, H.W.		A	140	670	70	minor gossan
	green & brown, minor blue, H.W.	10 m	A	190	410	60	
			A	245	730	55	
	fine grained - blue black		A	265	460	65	
	blue-black colour large chips		A	205	380	65	limonite stained surfaces
	10% qtz, 15% M.W.		A	125	420	65	
	plagioclase, rare magnetite, rest hornblende	20 m	A	80	440	60	
			A	220	300	65	
			A	205	310	70	
			A	160	440	50	
			A	120	440	50	
		30 m	A	200	370	50	
			A	70	670	55	
	soft - puggy - shear zone		Ass	40	950	45	
	QUARTZ - pink FELDSPAR - BIOTITE		+/+	65	165	80	
	GNEISS - hard - 25% pink feldspar, 20% biotite, rest c.g. qtz - gneissic texture	40 m	Qfb	40	130	85	
			+/+	70	185	225	
			+/+	65	200	320	
			+/+	60	135	95	
			+/+	95	135	55	
	QUARTZ - BIOTITE - CHLORITE - FELDSPAR		+/+	55	210	45	
	GNEISS - 20% biotite, 20% chlorite, 10% feldspar, rest c.g. qtz	50 m	Qbcl	55	300	45	
			+/+	75	410	45	
			+/+	45	160	60	
	QTZ - FELDSPAR - BIOTITE - SERICITE		+/+	45	110	60	
	GNEISS - 20% biotite, shear zone		SSSt	130	590	130	2% gossan, brown, sph.
	20% feldspar, 15% sericite, rest c.g. qtz	60 m	Qfbs	30	150	65	
			+/+	35	130	50	
			+/+	25	165	60	
	QUARTZ - green FELDSPAR - BIOTITE		+/+	50	180	60	2% py, minor sph
	GNEISS - 30% green feldspar, 30% biotite, minor MnO ₂ , rest c.g. qtz	70 m	Qfb	55	175	75	2% py, minor sph
			+/+	45	145	45	1% py, minor sph.
			+/+	105	290	55	1% py, minor sph.
			+/+	45	115	40	3% py, minor sph.
			+/+	50	135	60	
	END OF HOLE 75 metres						
		80 m					
		90 m					
		100 m					
		110 m					

DRILL TYPE: Schramm

DATE DRILLED: 24th - 25th March '77

DRILLER: R. CRAWFORD

LOGGED: J.A. OAKES

SCALE 1:500

DRG N° AS 6528

PROJECT: SOUTH AUSTRALIA AUSTRALIAN SELECTION (PTY) LTD
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: BALLARA.....
LOCATION 5.9 km SW Ballara H.S. CO-ORDS. 269,000 S 133 43200W

HOLE NO PTBA-5
R.L. COLLAR
INCLINATION: 60°
DIRECTION: 090° grid N.

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Zn	Pb	
	CALCRETE - 30% red soil & qtz rubble		5.2	190	175	50	20% gneiss
	QUARTZ-BIOTITE-GARNET GNEISS		Q607	130	530	35	lim. staining, H.W.
	AMPHIBOLITE - 20% qtz, H.W.		A*	100	430	70	5% MnO ₂ & goissan
	20% feldspar, 10% M.W.		A	55	430	55	2% MnO ₂ & goissan
	green epidote, rest	10 m	A*	60	450	75	minor MnO ₂ & goissan
	hornblende - green colour.		A	70	1020	85	2% siliceous Fe-Mn goissan, minor willemite
			A*	50	700	70	2% MnO ₂ & 2% goissan
			A	75	480	90	2% MnO ₂ , minor goissan
			A	75	500	120	2% MnO ₂ , minor goissan
		20 m	A	75	480	85	2% MnO ₂ & Fe-Mn siliceous goissan
			A	80	520	80	2% MnO ₂ , 2% goissan
	QTZ-BIOTITE-AMPHIBOLE-green FELDSPAR		Q607	120	580	45	2% MnO ₂ , 2% goissan
	GNEISS - 25% bte, 20% MW-S.W.		A	90	520	50	minor cerussite, minor goissan
	amph, 15% green feldspar, rest qtz fr.		A	155	480	50	2% py, minor sph
	QUARTZ-MICA GNEISS - 10% mica, rest qtz	30 m	Q607	100	260	75	3% py, minor MnO ₂
	AMPHIBOLITE - as above		A A	90	500	85	2% py, rare sph.
	QUARTZ-green FELDSPAR-AMPHIBOLE		A	115	700	145	3% py, minor sph
	BIOTITE GNEISS - 25% green feldspar, 20% amphibole, 20% biotite, rest c.g. qtz	40 m	Q607	100	520	100	5% py, rare sph.
			A	350	500	95	5% py, rare sph.
			A	135	280	75	5% py, minor sph.
			A	85	560	75	3% py, rare sph.
			A	65	530	80	3% py
			A	60	360	75	2% py
			A	35	320	55	minor py.
	AMPHIBOLITE - as above	50 m	A A	55	490	60	minor py.
	END OF HOLE 50 metres						
	Slow penetration rate						
		60 m					
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

DRILL TYPE: Schramm

DATE DRILLED:

25th March 1977

DRILLER:

LOGGED: J. A. OAKES

R. CRAWFORD

SCALE

1:500

DRG NO

A.S. 6529

PROJECT: SOUTH AUSTRALIA
TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
PROSPECT: BALLARA
LOCATION 6.2 km SW Ballara H.S. CO-ORDS. 270.000 S 134 40550 W

HOLE N° P7BA-G

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090° N grid

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Zn	Pb	
	CALCRETE - 20% red soil, minor qtz rubble		40	40	165	40	20% schist
	BIOTITE-SERICITE-QUARTZ SCHIST -		50	50	680	60	
	25% f.g. qtz, 30% sericite, rest biotite.		45	45	740	65	
	minor limonite staining		55	55	770	70	
	H.W.		65	65	780	75	
	M.W.	10 m	80	80	990	80	
	QTZ-FELDSPAR-BIOTITE-SERICITE GNEISS		75	75	820	75	
	QUARTZ-BIOTITE-SERICITE GNEISS		45	45	1400	55	
	-25% biotite, 15% sericite, rest m.g. - c.g. qtz - M.W.		60	60	1000	65	5% limonite go.
	QTZ-FELDSPAR-BIOTITE-SERICITE GNEISS	20 m	40	40	510	60	
	pink FELDSPAR AMPHIBOLITE - ophitic texture, 40% pink feldspar, rest hornblende - hard - fresh.		60	60	220	70	minor py
			10	10	270	35	minor MnO ₂
			5	5	550	40	1% MnO ₂
			5	5	300	40	
		30 m	35	35	190	55	20% schist
	QUARTZ-BIOTITE-SERICITE SCHIST -		50	50	330	60	
	30% biotite, 20% sericite, rest f.g. qtz		30	30	400	70	
	QTZ-BIOTITE-SERICITE-GARNET SCHIST		25	25	330	90	minor sph.
	-10% small almandine, 30% biotite, 20% sericite, rest qtz		140	140	430	85	rare sph.
	QUARTZ-BIOTITE-GARNET GNEISS	40 m	225	225	520	75	
	GARNETIFEROUS AMPHIBOLITE		50	50	1050	75	35% garnet, rest hbl
	BIOTITE-QUARTZ-ALMANDINE SCHIST		345	345	900	85	
	BIOTITE-AMPHIBOLE-GARNET SCHIST		385	385	830	75	
	GARNETIFEROUS AMPHIBOLITE - 25% m.g. - c.g. pink almandine garnets, 10% biotite, 10% qtz, 10% plagioclase, rest hornblende	50 m	235	235	780	80	minor py
			260	260	640	70	
			355	355	520	55	1% py
			140	140	490	75	minor py
	QTZ-BIOTITE-SERICITE-GARNET GNEISS		35	35	340	75	
	-10% garnet, 25% biotite, 15% sericite rest c.g. qtz		25	25	155	70	
		60 m	95	95	360	60	rare sph.
	END OF HOLE 60 metres						
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

DRILL TYPE: Schramm

DATE DRILLED: 25th March 1977
LOGGED: J.A. OAKES

DRILLER: R. CRAWFORD

SCALE: 1:500

DRG N° AS 6530

HOLE N° PTBA-7

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 090° N grid

<u>LEGEND</u> 9-graphite		DRILL TYPE: Schramm	DATE DRILLED: 25th March 1977
SCALE 1:500		DRILLER: R. CRAWFORD	LOGGED J. A. OAKES
			DRG NO. A.5 6531

R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090° gnd N

No	water
1780	25.5.77

DRILL TYPE: Schramm	DATE DRILLED: 26th March 1977
DRILLER: R. CRAWFORD	LOGGED J. A. OAKES
DRG No.	AS 6520

HOLE N: P1110-2

R.L. COLLAR:

INCLINATION: 60°

DIRECTION: 090° N, grid

SCALE		1:500	DRILL TYPE: Schramm	DATE DRILLED: 26-27th March '77
			DRILLER: R. CRAWFORD	LOGGED: J.A. OAKES
				DRG N°. A.S. 6521

HOLE N. 1 IND-3
R.L. COLLAR:
INCLINATION: 60°
DIRECTION: 090° N grid

LEGEND S - sillinite		DRILL TYPE: Schramm DATE DRILLED: 27th March 1977 DRILLER: R. CRAWFORD LOGGED: J.A. OAKES
SCALE	1:500	DRG N° AS 6522

PROJECT: SOUTH AUSTRALIA AUSTRIAN SELECTION (PTY) LTD
 TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: M^cBRIDES DAM
 LOCATION: 6.3 km SW Grolla H.S. CO-ORDS. 214,000 S 34,450 W

HOLE NO PTMD-4

R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 090° N grid

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Zn	Pb	
Dry hole	AMPHIBOLITE - M.W - green, mostly hornblende, 20% plag., 15% epidote, 15% qtz	10 m	A	70	250	105	25% calcare & soil
			A A	35	1160	140	
	QUARTZ AMPHIBOLITE - yellow - sheared - H.W - 30% qtz, 10% plag, rest hbl		AQ	20	2000	110	2% MnO ₂ & gossan.
			AQ	20	4000	110	
	AMPHIBOLITE - blue black - M.W.		A A	10	1600	95	2% MnO ₂ & gossan
	QUARTZ AMPHIBOLITE - 35% c.g. qtz, 20% fte & feldspar, rest hornblende - white specks of cerussite - M.W.		AQ	10	1920	105	minor cerussite?
			AQ	25	1230	100	3% MnO ₂ minor cerussite, lim of. gal.
			AQ	90	4500	260	
	BIOTITE-QUARTZ AMPHIBOLITE shear zone		ABQ	170	3400	130	5% gossan, 2% MnO ₂
	25% biotite, 25% qtz (c.g.) M.W.	20 m	ABQ	240	5800	90	minor MnO ₂ & lim.
	15% feldspar, rest hornblende -		ABQ	90	2900	195	minor Mn & lim staining
			ABQ	75	1950	155	
			ABQ	85	340	80	minor limonite staining.
	BIOTITE-SERICITE-QUARTZ M.W.	30 m	ABQ	45	130	70	
	-GARNET-STAUROLITE SCHIST		ABQ	45	75	70	
	15% small almandine garnets 10% staurolite as poorly formed twinned crystals. fresh		ABQ	10	80	70	
	25% f.g. qtz, 30% sericite, rest biotite, -schistose texture - soft		ABQ	10	85	65	
		40 m	ABQ	20	85	55	
			ABQ	25	85	65	minor py
			ABQ	10	75	75	2% py, as aggregates,
			ABQ	70	90	65	5% py, rare sph
		50 m	ABQ	195	60	65	5% py, minor sph
			ABQ	175	90	65	5% py, minor sph
			ABQ	235	75	60	5% py, 0.25% sph.
			ABQ	40	100	70	2% py
	BIOTITE-STAUROLITE-GARNET SCHIST	60 m	ABQ	15	60	45	minor py
	BTE-SERC-QTZ-GARNET-STAUROLITE SCHIST		ABQ	30	45	60	minor py & staurolite
	BTE-SERICITE-QUARTZ-GARNET SCHIST		ABQ	5	55	60	1% py
	BTE-SERC-GARNET-STAUROLITE-QTZ SCHIST - minor graphite		ABQ	40	85	55	3% py
	BTE-SERC-STAUROLITE-GRAPHITE-GARNET SCHIST	60 m	ABQ	155	100	105	5% py.
	END OF HOLE 60 metres						
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

LEGEND

g- graphite
 ✖ staurolite

DRILL TYPE: Schramm

DATE DRILLED: 27th March 1977

DRILLER: R. CRAWFORD

LOGGED: J.A. OAKES

SCALE 1:500

DRG. NO. AS. 6523

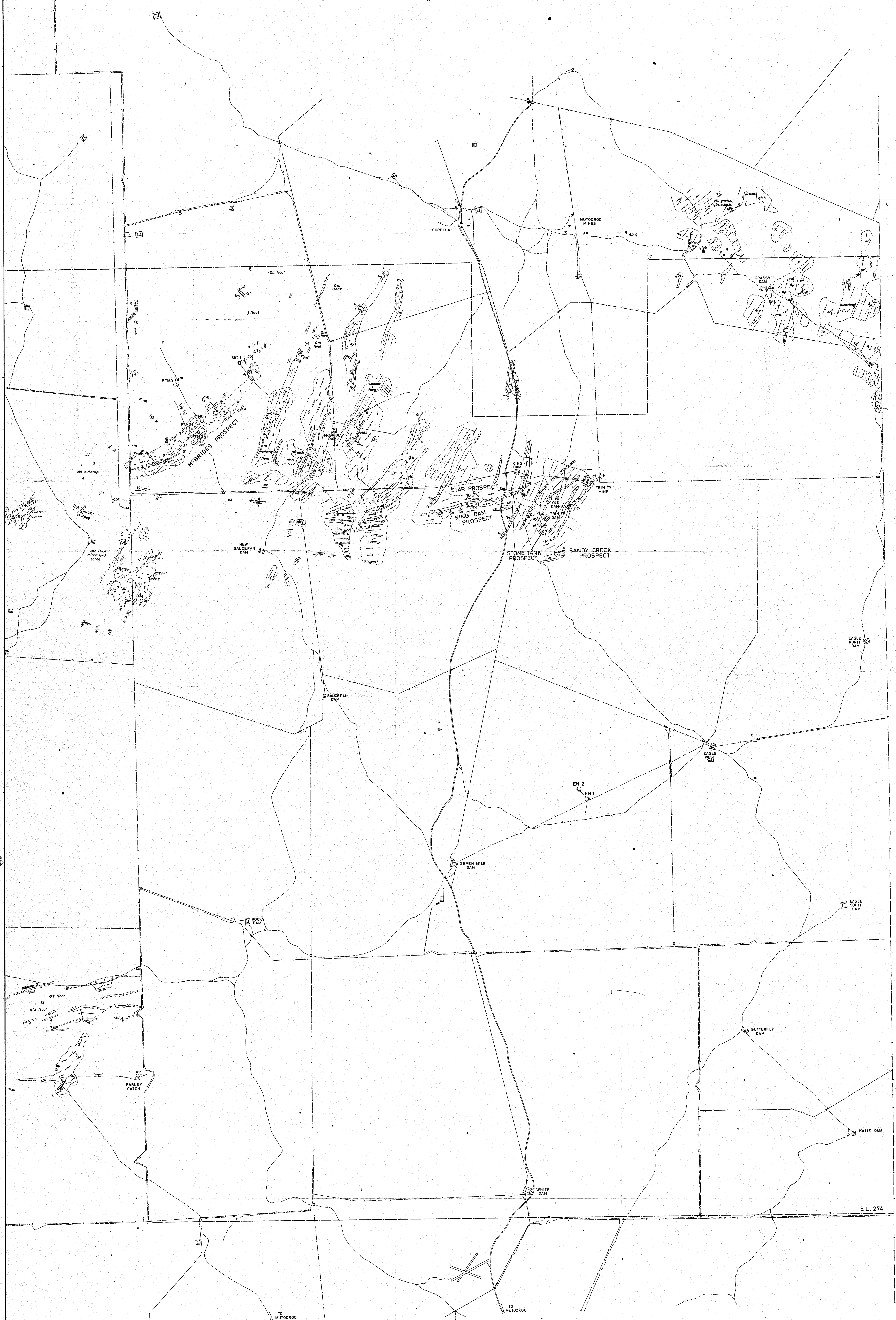
PROJECT: SOUTH AUSTRALIA
 TRINITY E.L. 274 LOG OF PERCUSSION DRILL HOLE
 PROSPECT: DRY CREEK
 LOCATION 1.8 km S. M^cBrides Dam CO-ORDS: 209,900 S 23,925 W

HOLE N° PTDC-1
 R.L. COLLAR:
 INCLINATION: 60°
 DIRECTION: 090° N grid

WATER CUT	DESCRIPTION	DEPTH METRES	LOG	GEOCHEM			REMARKS
				Cu	Zn	Pb	
	CALCRETE - minor soil & qtz rubble		C _{cc}	75	50	45	30% amphibolite
	AMPHIBOLITE - 10% f.g. magnetite, 10% chlorite, 15% plag & qtz, rest hornblende		A A	400	175	45	H.W.
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST		bsms	410	185	55	
	BIOTITE-SERICITE-QUARTZ SCHIST		bsms	155	40	60	5% f.g. mag. H.W.
	-30% f.g. qtz, 30% sericite, rest biotite rare small almandines - M.W.	10 m	ssss	50	30	45	
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST		bsms	85	55	45	
	AMPHIBOLITE - m.g. - 20% vein qtz		ssss	185	50	45	
	25% chlorite, 10% f.g. magnetite M.W.		bsms	230	50	50	5% mag, minor lim.
	10% qtz, rest hornblende S.W.	20 m	A*	2070	145	40	minor mal, 5% gossan
	SERICITE-AMPHIBOLE-Qtz SCHIST-S.W.		*A	375	185	45	rare mal, minor gossan
	AMPHIBOLITE - fresh - as above		A	1800	180	50	minor lim after py.
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST		A	600	170	40	3% lim py, rare chpy
	-5% mag, 30% f.g. qtz, 30% serc, rest bte	30 m	SAQS	145	125	50	minor limonitized py
	Qtz-pink FELDSPAR-BIOTITE-MAG. GNEISS		A A	380	65	50	3% py, rare chpy
	BIOTITE-SERICITE-Qtz-MAGNETITE SCHIST		bsms	90	30	40	
	QUARTZ-BIOTITE - 20% amphibolite		bsms	100	35	45	2% m.g. pyrrh.
	FELDSPAR-SERICITE - 25% biotite, 15% feldspar	40 m	bsms	650	65	55	5% pyrrh, minor chpy
	MAGNETITE GNEISS 15% sericite rest qtz		bsms	255	40	45	2% pyrrh, 5% mag.
	AMPHIBOLITE		A	450	40	40	minor chpy, 3% pyrrh
	Qtz-BIOTITE-FELDSPAR-SERICITE GNEISS		bsms	105	30	40	
	QUARTZ-pink FELDSPAR-BIOTITE GNEISS - 30% pink feldspar, 20% biotite, rest c.g. qtz	50 m	bsms	35	20	35	2% pyrrh
	Qtz-BIOTITE-FELDSPAR-SERICITE GNEISS - as above		bsms	140	60	45	1% pyrrh
	END OF HOLE 60 metres	60 m	bsms	50	25	35	20% amphibolite, 2% py.
			A A	45	60	40	2% pyrrh.
			bsms	30	25	35	
			bsms	55	25	40	1% pyrrh
			bsms	55	40	35	
			bsms	30	20	35	2% pyrrh
			bsms	50	25	40	
			bsms	110	45	50	2% mag, 2% pyrrh
		70 m					
		80 m					
		90 m					
		100 m					
		110 m					

DRILL TYPE: Schramm
 DATE DRILLED: 27th March 1977
 DRILLER: R. CRAWFORD
 LOGGED: J. A. OAKES
 DRG N° A.S. 6524

SCALE 1:500



- META SEDIMENTARY ROCKS**
- QUARTZITIC ROCKS (Possible chemical sediments.)
Metagranites or quartz gneisses with minor mica & magnetite
 - PSAMMITIC ROCKS (Minor psammopelitic & pelitic rock interbeds.)
Mainly quartz-orthoclase gneisses with minor mica & magnetite
 - PSAMMOPELITIC ROCKS (Minor psammite & pelitic rock interbeds.)
Essentially quartz-mica (40% quartz) gneisses, often with distinctive minerals such as garnet, magnetite, talc, or kyanite in smaller amounts
 - PELITIC ROCKS (Minor psammite & psammopelitic rock interbeds.)
Essentially quartz-mica (40% quartz) gneisses, often with distinctive minerals such as garnet, magnetite, talc, or kyanite in smaller amounts
 - INTERBEDDED PSAMMITIC & PSAMMOPELITIC ROCKS (Minor psammite rock interbeds.)
 - INTERBEDDED PELITIC & PSAMMOPELITIC ROCKS (Minor psammite rock interbeds.)
 - INTERBEDDED PSAMMITIC & PELITIC ROCKS (Minor psammite rock interbeds.)
 - BIF BANDED IRON FORMATION
- BASIC ROCKS**
- FINE GRAINED AMPHIBOLITES (hornblende-plagioclase rocks often with distinctive minerals such as garnet, chlorite, quartz (to 30%), epidote & magnetite in smaller amounts)
 - Quartz rich amphibolites (30% quartz) & quartz-plagioclase amphibolite gneiss, often micaceous
 - AMPHIBOLITE DYKE (Metadiorite)
 - COARSE GRAINED AMPHIBOLITE
 - CONGLOMERATIC SANDSTONE (STURTIAN AGE)
 - LATERITE
 - GOSSAN
 - APLITE
 - PGMATITE
- OVERPRINTS**
- The following overprints are used to show distinctive minerals in a unit (if more than one mineral, shown in order of abundance).
- | | | | |
|----|-------------|---------------------|-----------|
| S | SILLIMANITE | C | CHLORITE |
| K | KYANITE | DISSEMINATED GOSSAN | |
| S | SERICITE | Q | QUARTZ |
| B | BIOTITE | A or C | AMPHIBOLE |
| ST | STAUROLITE | PY | PYRITE |
| G | GARNET | M | MAGNETITE |
| T | TOURMALINE | | |
- GEOLOGICAL BOUNDARIES**
- ACCURATE
 - APPROXIMATE
 - INFERRED
- SYMBOLS**
- MINE SHAFT
 - PROSPECTING PIT WITH COPPER SHOWINGS
 - MINE
 - Fe QUARRY
 - PERCUSSION HOLE
 - DIAMOND HOLE
 - DAM
 - FENCE WITH GATE
 - TRACK
 - E.L. BOUNDARY
 - DIP & STRIKE OF FOLIATION
 - SENSE & PLUNGE OF MINOR FOLD
 - PLUNGE OF LINEATION
 - LIMIT OF OUTCROP

2894-2

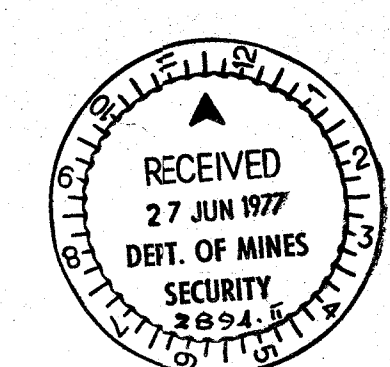
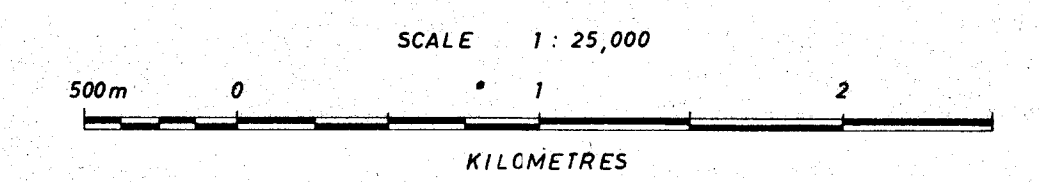


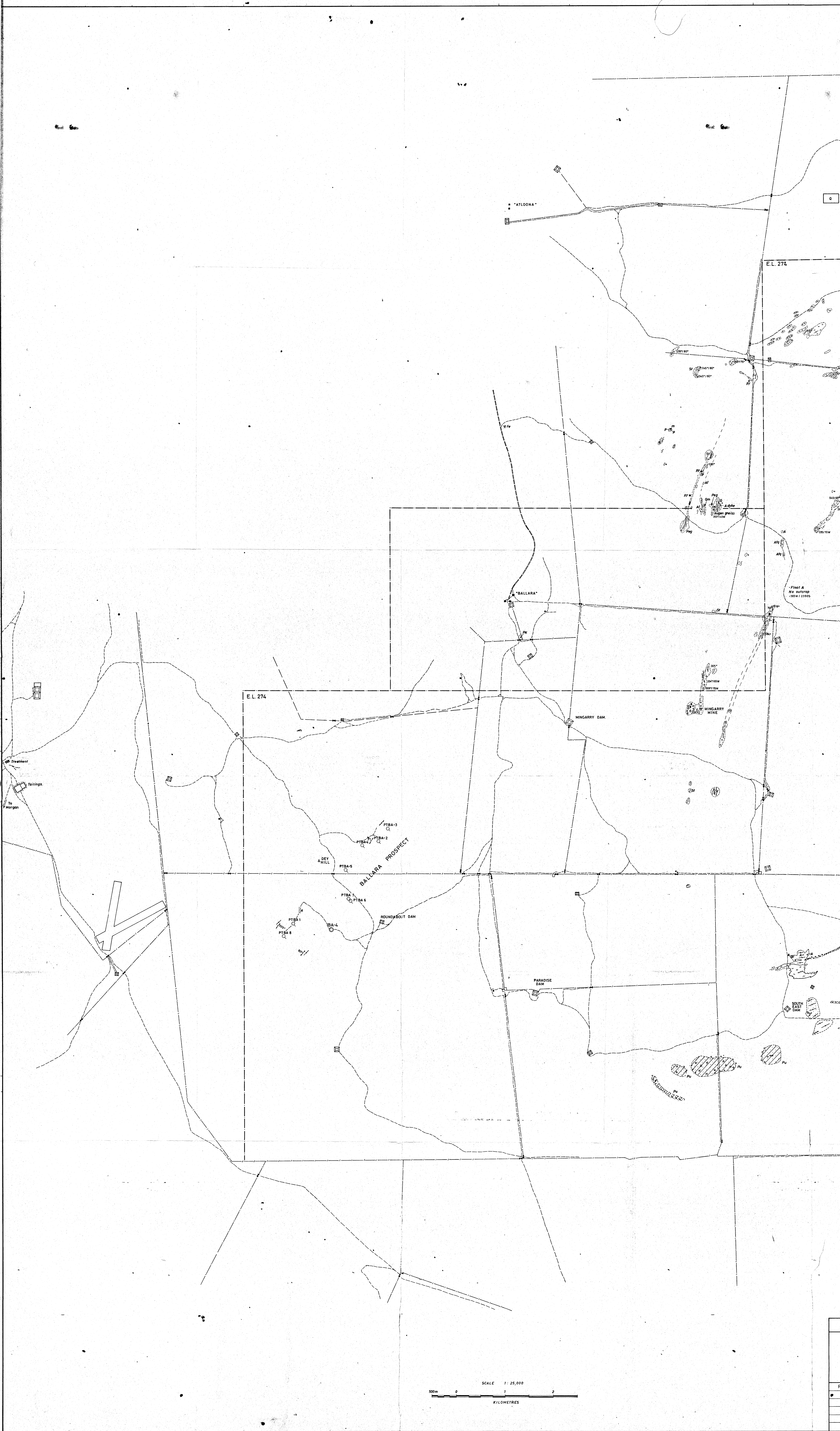
FIG. 1

AUSTRALIAN SELECTION (PTY) LTD.

SOUTH AUSTRALIA
TRINITY E.L. 274
GEOLOGICAL MAP
SHEET 1

Revisions	Date	Compiled by	Drawn by	Traced by	Checked by	Plan Number	Date
		J.A.O.	J.A.O.	K.J.C.		A.S. 6553	Mar. 77
							Mar. 77
							Jun. 77





- META SEDIMENTARY ROCKS**
- QUARTZITIC ROCKS (Possible chemical sediments.)
Metagranites or quartz gneisses with minor mica & magnetite.
 - PSAMMITIC ROCKS (Minor psammopelitic & pelitic rock interbeds.)
Mainly quartz-arkose gneisses with minor mica & magnetite.
 - PSAMMOPELITIC ROCKS (Minor psammitic & pelitic rock interbeds.)
Essentially quartz-rich (>40%) gneisses often with distinctive minerals such as garnet, magnetite, feldspar or kyanite in smaller amounts.
 - PELITIC ROCKS (Minor psammitic & psammopelitic rock interbeds.)
Thinly bedded shales (<40% quartz) with distinctive minerals such as sillimanite, garnet, kyanite, magnetite, staurolite, garnet etc. in smaller amounts.
 - INTERBEDDED PSAMMITIC & PSAMMOPELITIC ROCKS (Minor psammitic rock interbeds.)
 - INTERBEDDED PELITIC & PSAMMOPELITIC ROCKS (Minor psammitic rock interbeds.)
 - INTERBEDDED PSAMMITIC & PELITIC ROCKS (Minor psammopelitic rock interbeds.)
 - BIF BANDED IRON FORMATION
- BASIC ROCKS**
- FINE GRAINED AMPHIBOLITES - hornblende-plagioclase rocks often with distinctive minerals such as garnet, chlorite, quartz (to 30%), epidote & magnetite in smaller amounts.
 - Quartz rich amphibolites (30% quartz) & quartz-plagioclase-amphibole gneiss; often micaceous.
 - AMPHIBOLITE DYKE (Metadolerite)
 - COARSE GRAINED AMPHIBOLITE
 - CONGLOMERATIC SANDSTONE (STURTIAN AGE)
 - LATERITE
 - GOSSAN
 - APLITE
 - PEGMATITE
- OVERPRINTS**
- The following overprints are used to show distinctive minerals in a unit (if more than one mineral, shown in order of abundance):
- | | | | |
|----|-------------|---------------------|-----------|
| S | SILLIMANITE | C | CHLORITE |
| K | KYANITE | DISSEMINATED GOSSAN | |
| S | SERICITE | Q | QUARTZ |
| B | BIOTITE | A or M | AMPHIBOLE |
| ST | STAUROLITE | Py | PYRITE |
| G | GARNET | m | MAGNETITE |
| T | TOURLMALINE | | |
- GEOLOGICAL BOUNDARIES**
- ACCURATE
 - APPROXIMATE
 - INFERRED
- SYMBOLS**
- MINE SHAFT
 - PROSPECTING PIT WITH COPPER SHOWINGS
 - MINE
 - Fe QUARRY
 - PERCUSSION HOLE
 - DIAMOND HOLE
 - DAM
 - FENCE WITH GATE
 - TRACK
 - E.L. BOUNDARY
 - DIP & STRIKE OF FOLIATION
 - SENSE & PLUNGE OF MINOR FOLD
 - PLUNGE OF LINEATION
 - LIMIT OF OUTCROP

2894-3

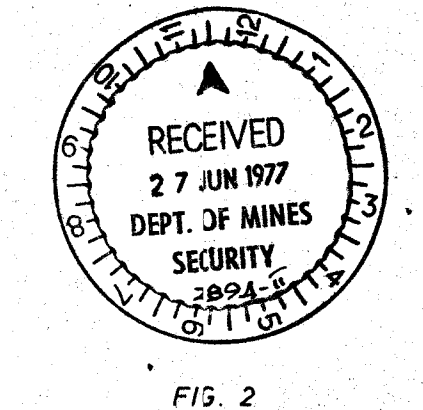
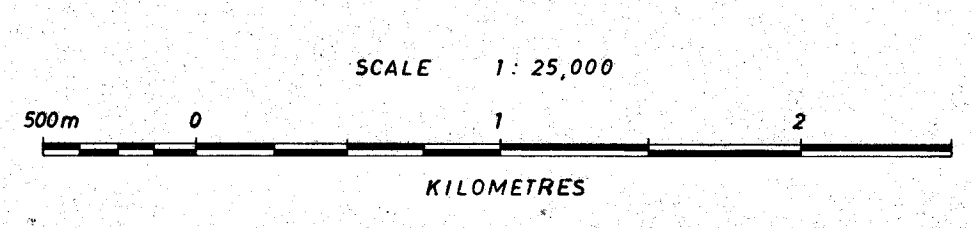
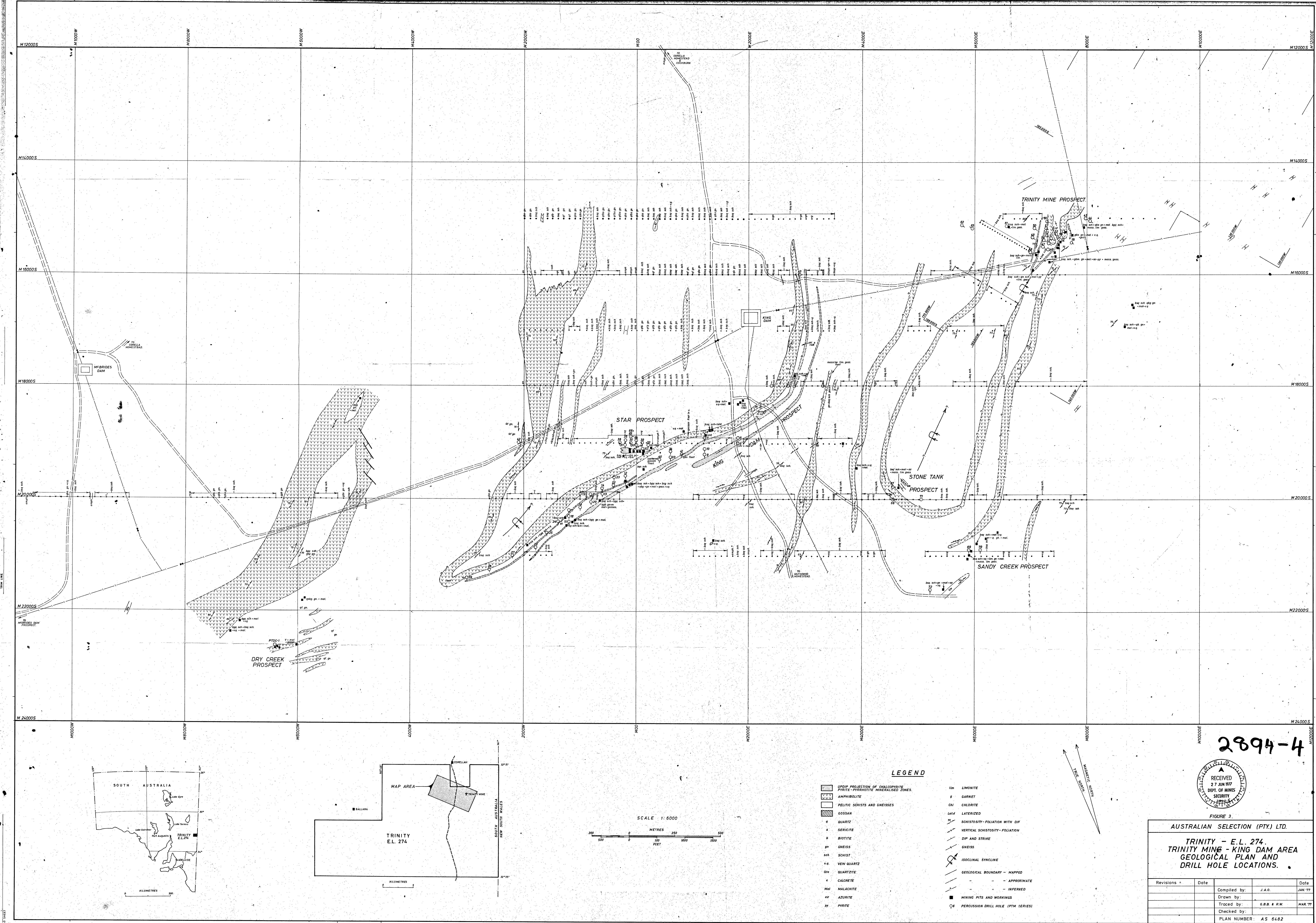


FIG. 2

AUSTRALIAN SELECTION (PTY.) LTD.			
SOUTH AUSTRALIA			
TRINITY E.L. 274			
GEOLOGICAL MAP			
SHEET 2			
Revisions	Date	Compiled by	Date
1		J.A.O.	Mar. 77
		Drawn by	J.A.O.
		Traced by	K.J.C.
		Checked by	
PLAN NUMBER: A.S. 6564			





196000 S

197000 S

16000 W

15500 W

METASEDIMENTARY ROCKS

QUARTZITIC ROCKS (Possible chemical sediments): Metaquartzites and quartz gneisses with minor mica and magnetite, includes magnetite metaquartzites.

PSAMMITIC ROCKS: Quartz-orthoclase gneisses with minor mica and magnetite.

PSAMMOPELITIC ROCKS: Quartz-mica (biotite and/or sericite) (<40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.

PELITIC ROCKS: Mica (biotite, sericite and/or muscovite) - quartz schists (<40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.

BASIC ROCKS

FINE GRAINED AMPHIBOLITE: Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).

Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.

Quartz vein

Copper mineralized zones (partly projected up dip.)

Inferred isoclinal syncline

Inferred isoclinal anticline

OVERPRINTS

The following overprints are used to show distinctive minerals in a unit. (If more than one mineral, shown in order of abundance.)

S SILLIMANITE	T TALC
K KYANITE	t TOURMALINE
S SERICITE	C CHLORITE
st STAUROLITE	am AMPHIBOLE
g GARNET	> 5% SULPHIDE
m MAGNETITE	* DISSEMINATED GOSSAN
f FELDSPAR	b BIOTITE
F FLUORITE	mal MALACHITE
Py PYRITE	az AZURITE
	J JASPER

GEOLOGICAL BOUNDARIES

— ACCURATE
- - - APPROXIMATE
- ? - ? - INFERRED

51 PERCUSSION DRILL HOLE (PTM SERIES)

70 DIP AND STRIKE OF SCHISTOSITY

PROSPECTING PIT

MINE SHAFT

SCALE 1:1000

Metres

FIG. 4.

AUSTRALIAN SELECTION (PTY.) LTD.

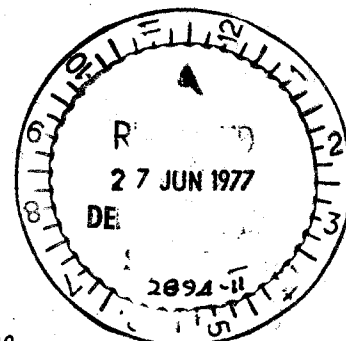
TRINITY — E.L. 274

TRINITY MINE

GEOLOGY AND DRILL HOLE LOCATIONS

Revisions.	Date.	Compiled by:	J. A. O.	Date.	MAR '77
		Drawn by:	"		"
		Traced by:	R. W.		JUNE '77
		Checked by:			
PLAN NUMBER: AS 6565					

2894-5



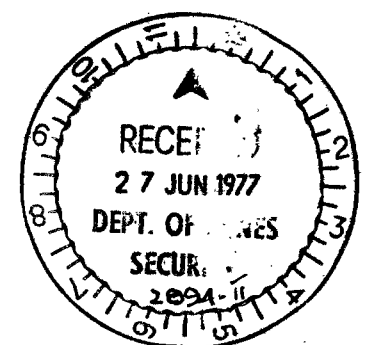
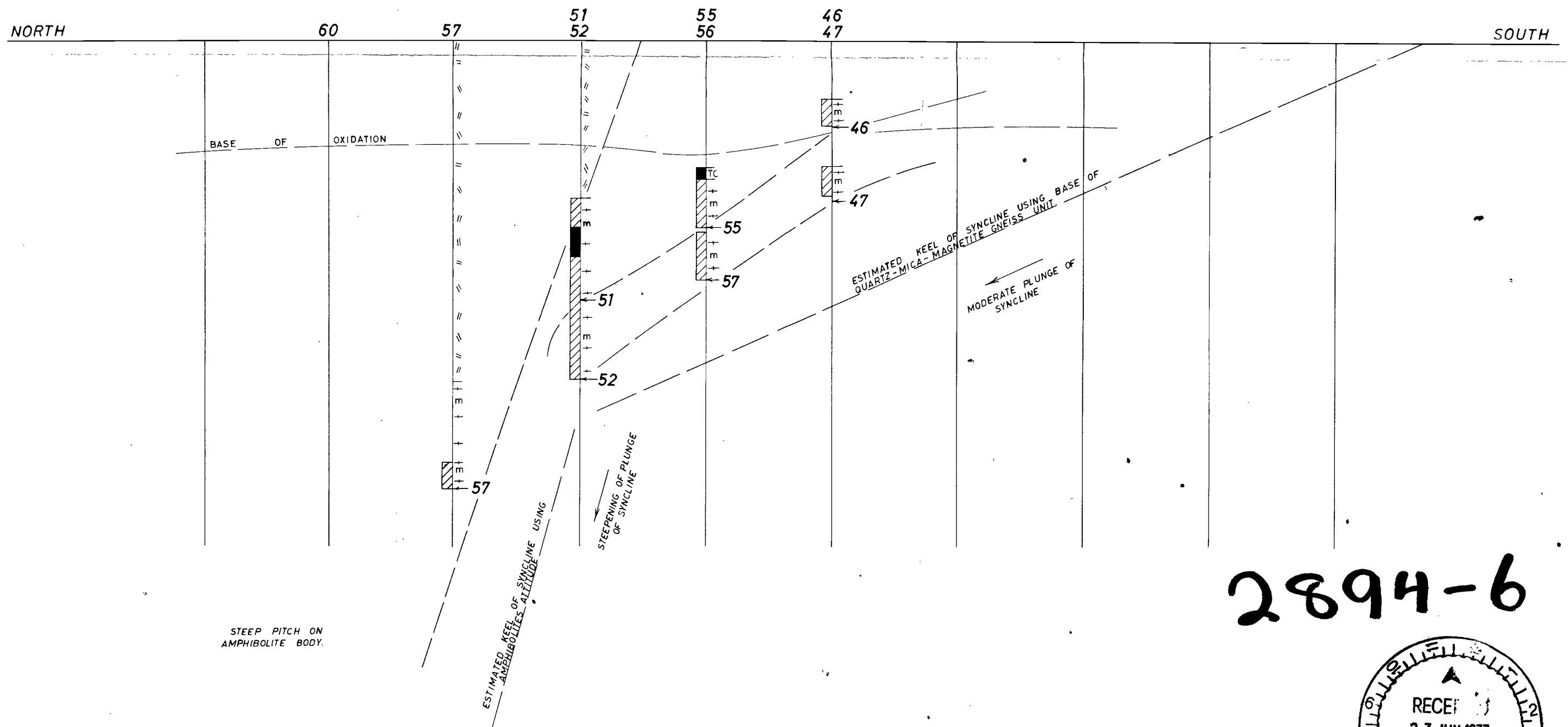
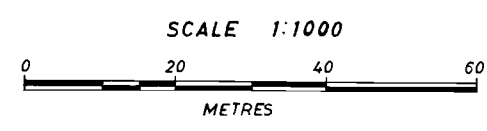
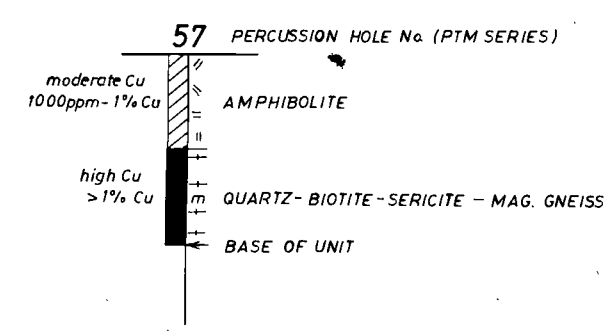
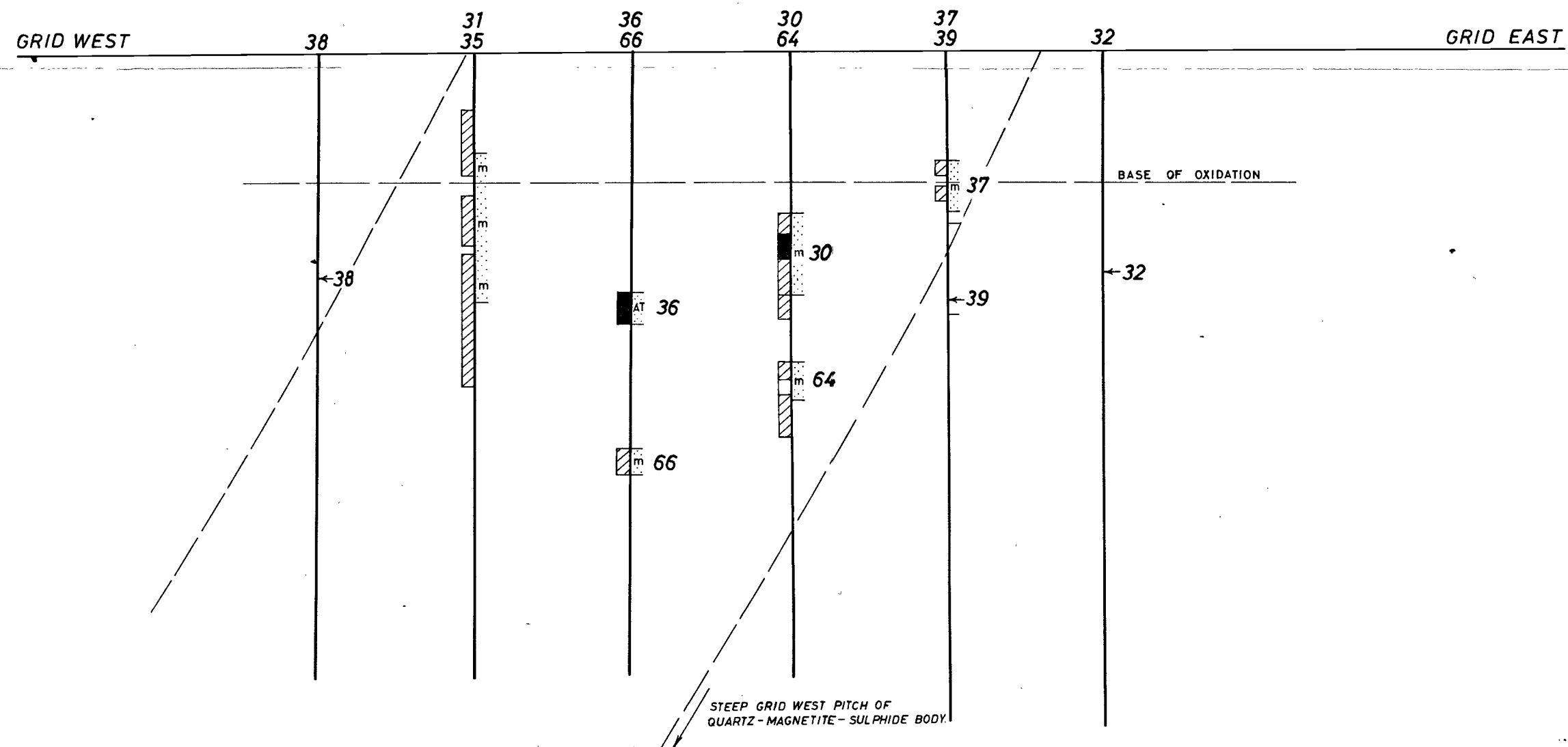


FIG. 5.

ROCK GEOCHEMISTRY



AUSTRALIAN SELECTION (PTY.) LTD.				
TRINITY - E.L. 274				
TRINITY MINE				
LONGITUDINAL PROJECTION				
Revisions.	Date.			Date.
		Compld by:	J.A.O.	MAR. '77
		Drawn by:	"	"
		Traced by:	R.W.	JUNE '77
		Checked by:		
PLAN NUMBER: AS 6566				



2894-7

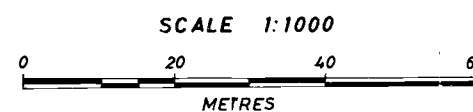
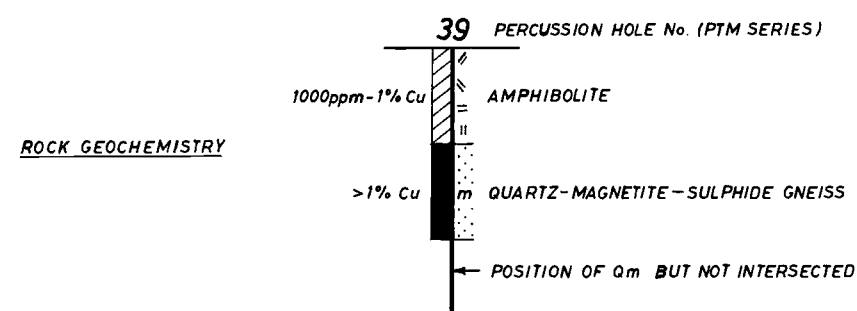
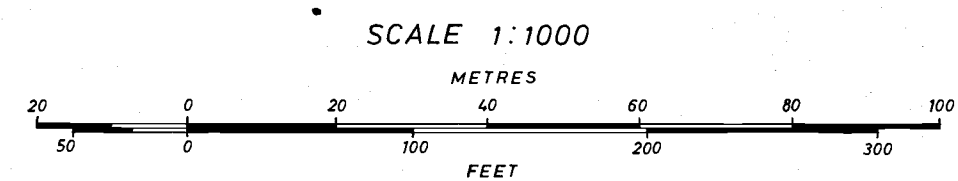
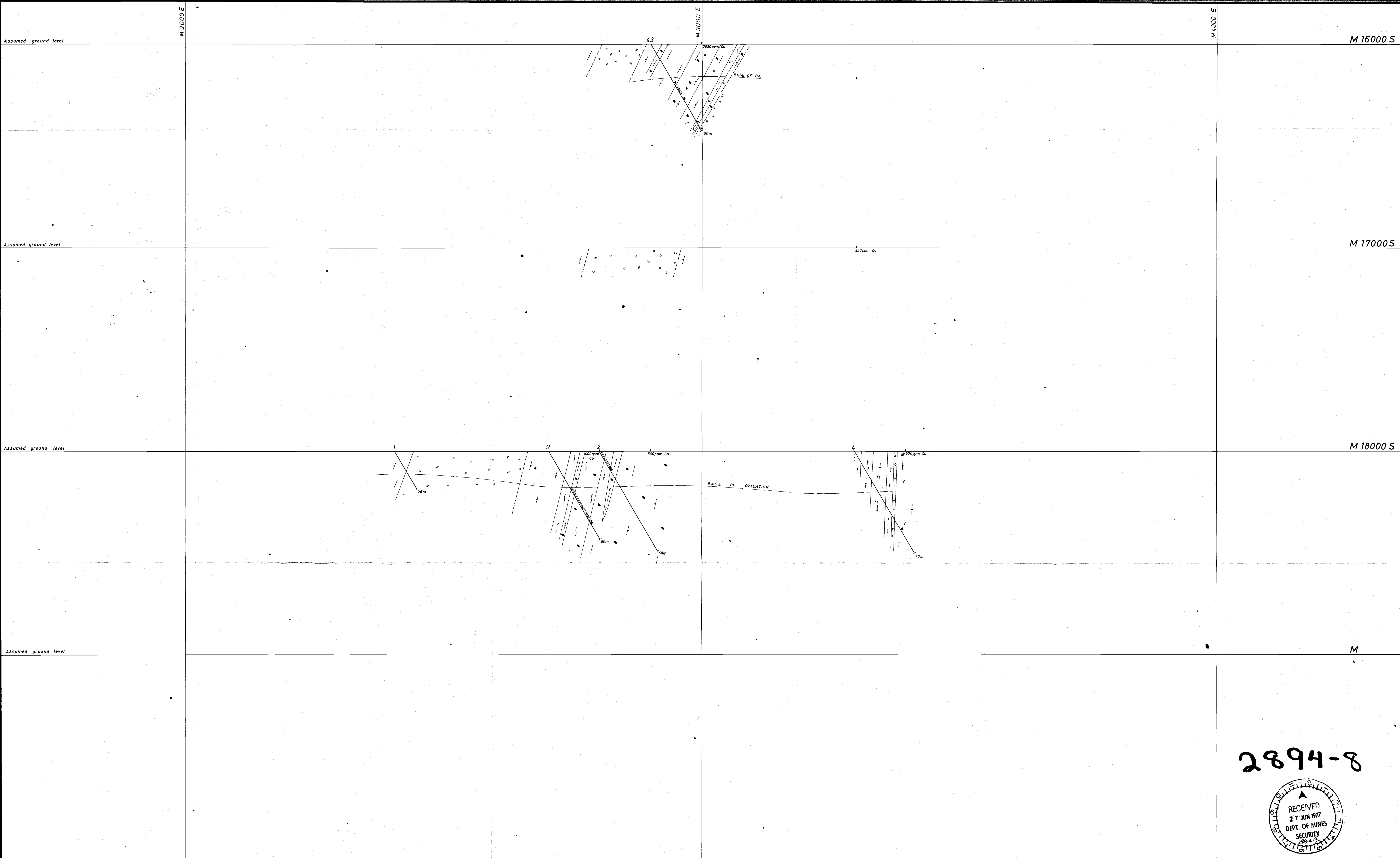


FIG. 6.

AUSTRALIAN SELECTION (PTY.) LTD.				
TRINITY - E.L. 274				
STAR PROSPECT				
LONGITUDINAL PROJECTION				
Revisions.	Date.	Compiled by:	J.A.O.	Date.
		Drawn by:	"	"
		Traced by:	R.W.	JUNE '77
		Checked by:		
PLAN NUMBER: AS 6567				



METASEDIMENTARY ROCKS

- QUARTZITIC ROCKS (Possible chemical sediments) : Metaquartzites and quartz gneisses with minor mica and magnetite, includes magnetite metaquartzites.
- PSAMMITIC ROCKS : Quartz-orthoclase gneisses with minor mica and magnetite.
- PSAMMOPELITIC ROCKS : Quartz-mica (biotite and/or sericite) (<40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.
- CELITIC ROCKS : Mica (biotite, sericite and/or muscovite) - quartz schists (<40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.
- BASIC ROCKS
- FINE GRAINED AMPHIBOLITE : Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).
- Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.
- Quartz vein

OVERPRINTS

- The following overprints are used to show distinctive minerals in a unit (if more than one mineral, shown in order of abundance.)
- S SILLIMANITE
- K KYANITE
- S SERICITE
- ST STAUROLITE
- G GARNET
- M MAGNETITE
- F FELDSPAR
- F FLUORITE
- T TALC
- T TOURMALINE
- C CHLORITE
- A AMPHIBOLE
- > 5% SULPHIDE
- DISSEMINATED GOSSAN
- B BIOTITE

GEOLOGICAL BOUNDARIES

- ACCURATE
- APPROXIMATE
- INFERRED

ROCK GEOCHEMISTRY

- > 1% Cu
- 1000ppm - 1% Cu
- 500 - 1000ppm Cu
- 0 - 500ppm Cu
- 800ppm Cu COPPER AUGER ANOMALY

FIG. 7.

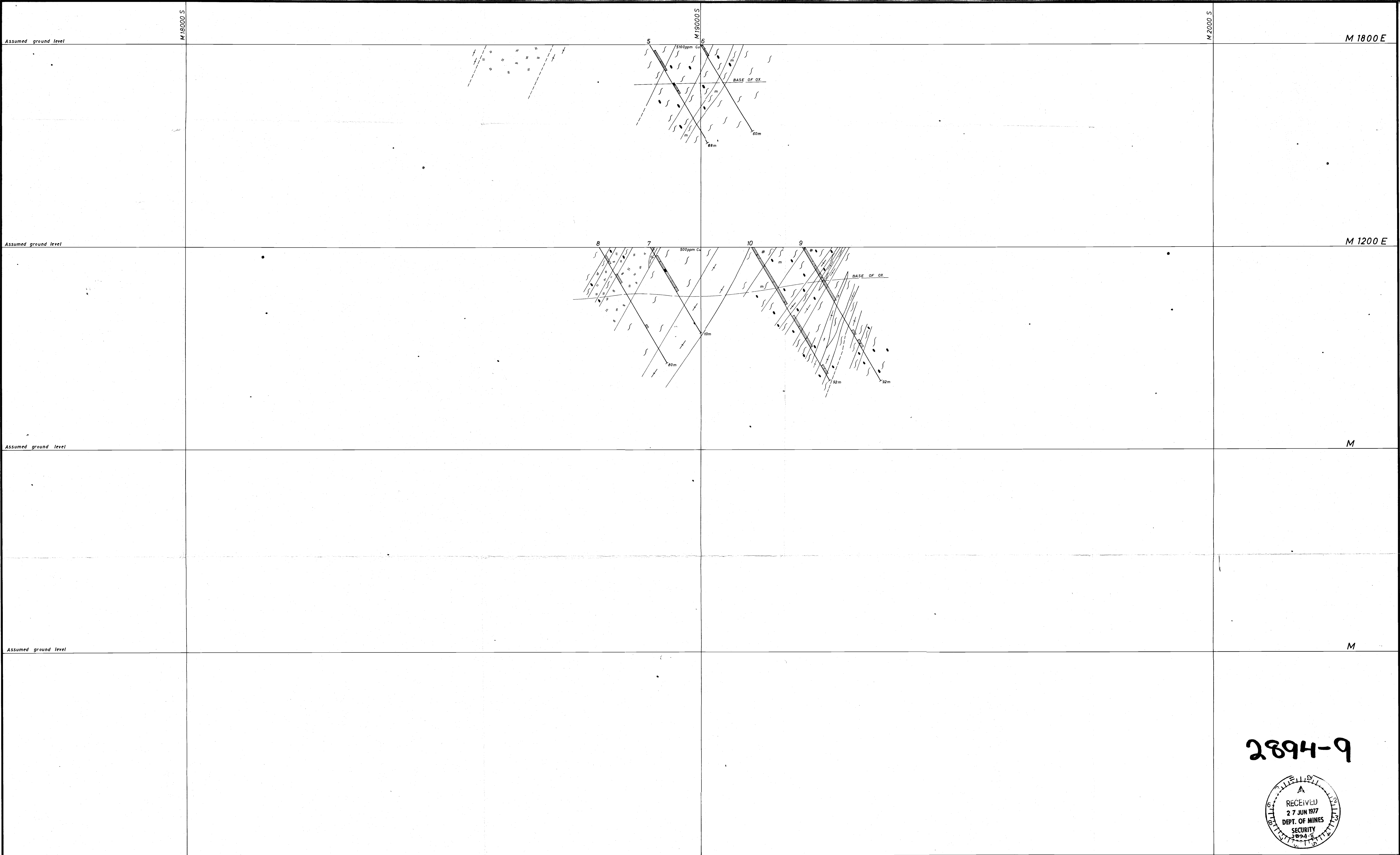
AUSTRALIAN SELECTION (PTY) LTD.

TRINITY - E.L. 274

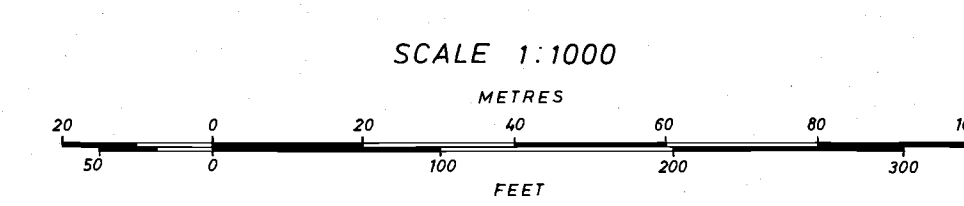
KING DAM PROSPECT

SECTION LINES M 16000 S, M 17000 S,
M 18000 S, M

Revisions	Date	Compiled by	J.A.O.	Date
		Drawn by	"	FEB '77
		Traced by	R.W.	JUNE '77
		Checked by		
PLAN NUMBER: AS 6568				



2894-9



- METASEDIMENTARY ROCKS**
- QUARTZITIC ROCKS (Possible chemical sediments) : Metaquartzites and quartz gneisses with minor mica and magnetite, includes magnetite metaquartzites.
 - PSAMMITIC ROCKS : Quartz-orthoclase gneisses with minor mica and magnetite.
 - PSAMMOPELIC ROCKS : Quartz-mica (biotite and/or sericite) (<40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.
 - PELIC ROCKS : Mica (biotite, sericite and/or muscovite) - quartz schists (>40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.
- BASIC ROCKS**
- FINE GRAINED AMPHIBOLITE : Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).
 - Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.
 - Quartz vein

- OVERPRINTS**
- The following overprints are used to show distinctive minerals in a unit. (If more than one mineral, shown in order of abundance.)
- S SILLIMINITE
 - K KYANITE
 - S SERICITE
 - ST STAUROLITE
 - G GARNET
 - M MAGNETITE
 - F FELDSPAR
 - F FLUORITE
 - T TALC
 - I TOURMALINE
 - C CHLORITE
 - A AMPHIBOLE
 - > 5% SULPHIDE
 - DISSEMINATED GOSSAN
 - B BIOTITE
- GEOLOGICAL BOUNDARIES**
- ACCURATE
 - APPROXIMATE
 - INFERRED

- ROCK GEOCHEMISTRY**
- > 1% Cu
 - 1000ppm - 1% Cu
 - 500 - 1000ppm Cu
 - 0 - 500ppm Cu
 - 840ppm Cu
 - COPPER AUGER ANOMALY

FIG. 8.

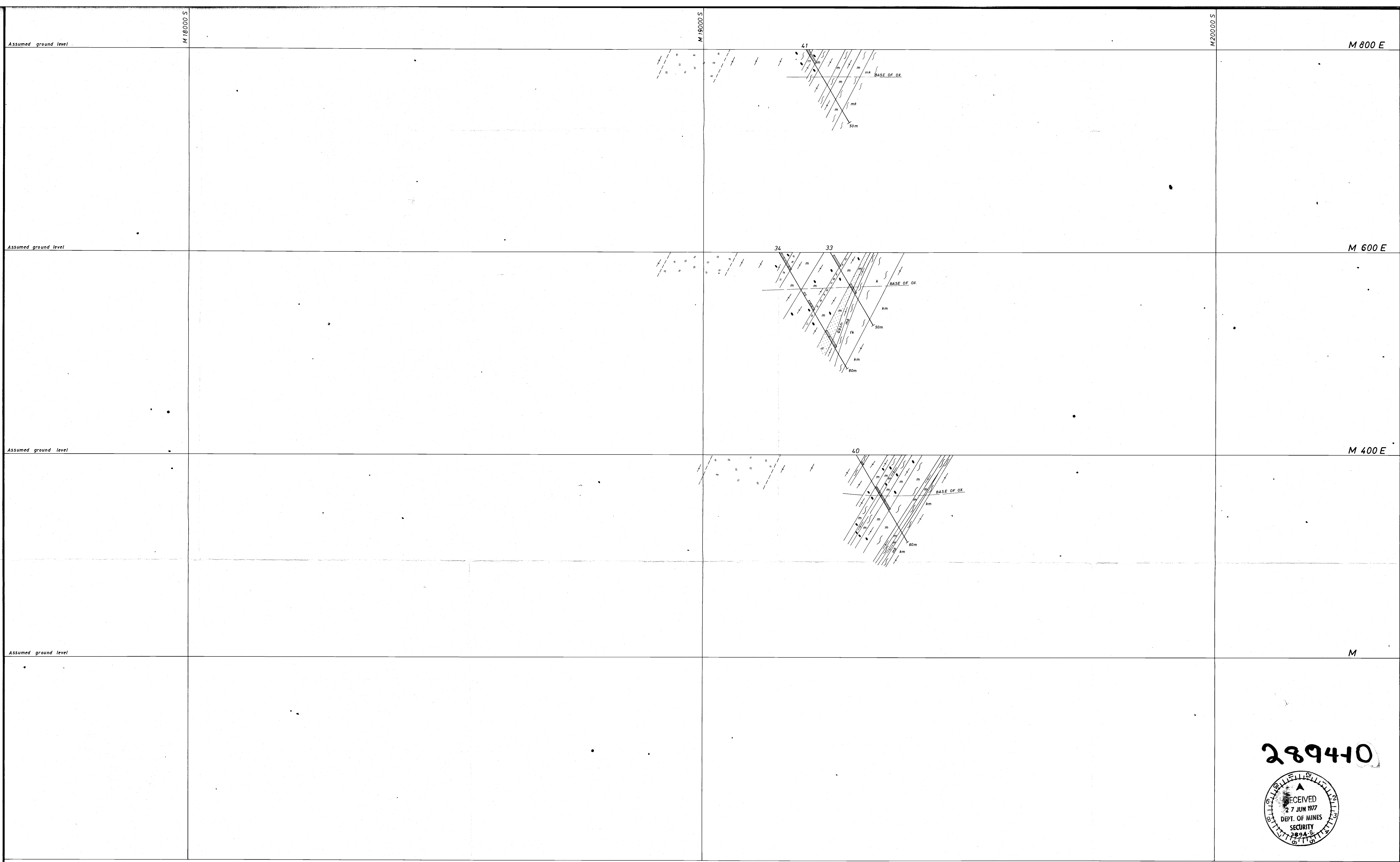
AUSTRALIAN SELECTION (PTY.) LTD.

TRINITY - E.L. 274

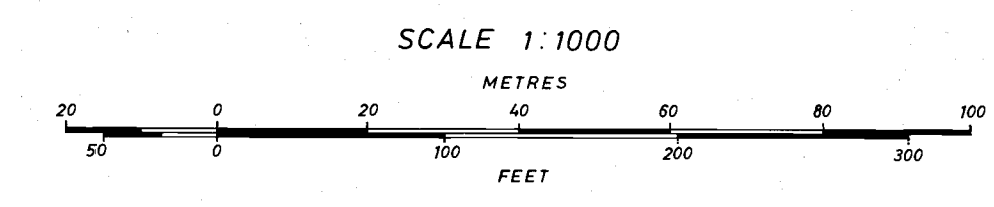
KING DAM PROSPECT

SECTION LINES M 1800 E, M 1200 E

Revisions	Date	Compiled by	Date
		J A O	FEB '77
		Drawn by	
		Traced by	JUNE '77
		Checked by	
		PLAN NUMBER	



289410

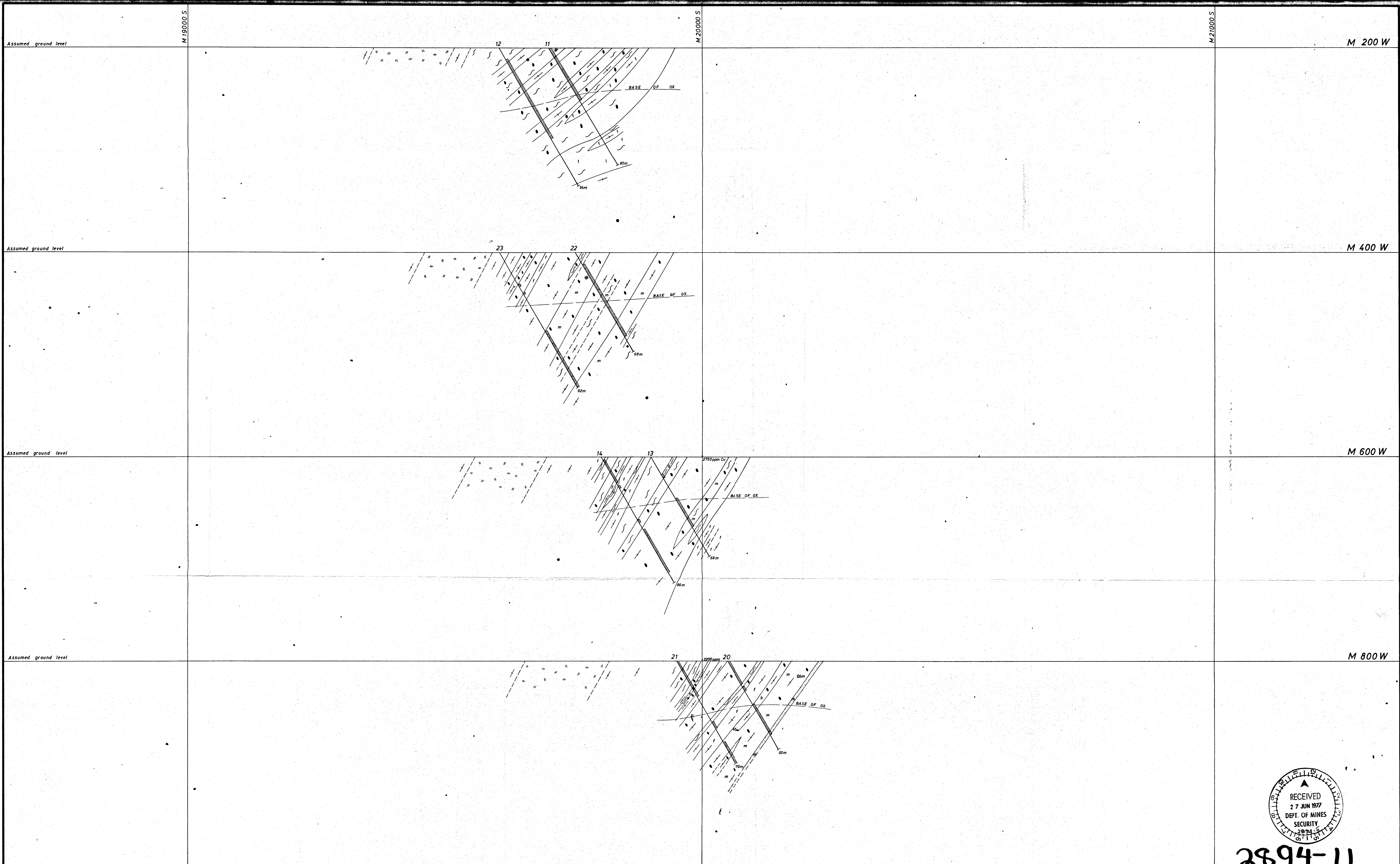


- METASEDIMENTARY ROCKS**
- QUARTZITIC ROCKS** (Possible chemical sediments) : Metaquartzites and quartz gneisses with minor mica and magnetite, includes magnetite metaquartzites.
 - PSAMMITIC ROCKS** : Quartz-orthoclase gneisses with minor mica and magnetite.
 - AMMOPELITIC ROCKS** : Quartz-mica (biotite and/or sericite) (<40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.
 - PELITIC ROCKS** : Mica (biotite, sericite and/or muscovite) - quartz schists (<40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.
- BASIC ROCKS**
- FINE GRAINED AMPHIBOLITE** : Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).
 - Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.
 - Quartz vein

- OVERPRINTS**
- The following overprints are used to show distinctive minerals in a unit. (If more than one mineral, shown in order of abundance.)
- | | |
|---------------|---------------------|
| S SILLIMINITE | T TALC |
| K KYANITE | I TOURMALINE |
| S SERICITE | C CHLORITE |
| ST STAUROLITE | A AMPHIBOLE |
| G GARNET | S >5% SULPHIDE |
| M MAGNETITE | DISSEMINATED GOSSAN |
| F FELDSPAR | b BIOTITE |
| F FLUORITE | |
- GEOLOGICAL BOUNDARIES**
- ACCURATE
 - APPROXIMATE
 - INFERRED

- ROCK GEOCHEMISTRY**
- >1% Cu
 - 1000ppm - 1% Cu
 - 500 - 1000ppm Cu
 - 0 - 500ppm Cu
 - 840ppm Cu COPPER AUGER ANOMALY

FIG 9.			
AUSTRALIAN SELECTION (PTY.) LTD.			
TRINITY - E.L. 274			
KING DAM PROSPECT			
SECTION LINES M 800 E , M 600 E , M 400 E , M			
Revisions	Date	Compiled by	Date
		J.A.O.	FEB '77
		Drawn by	"
		Traced by	R.W. JUNE '77
		Checked by	
PLAN NUMBER: AS 6570			



2894-11

METASEDIMENTARY ROCKS

- QUARTZITIC ROCKS** (Possible chemical sediments) : Metaquartzites and quartz gneisses with minor mica and magnetite, includes magnetite metaquartzites.
- PSAMMITIC ROCKS** : Quartz-orthoclase gneisses with minor mica and magnetite.
- PSAMMOPELITIC ROCKS** : Quartz-mica (biotite and/or sericite) (<40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.
- PELITIC ROCKS** : Mica (biotite, sericite and/or muscovite) - quartz schists (<40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.
- BASIC ROCKS**
 - FINE GRAINED AMPHIBOLITE** : Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).
 - Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.
 - Quartz vein

OVERPRINTS

- The following overprints are used to show distinctive minerals in a unit. If more than one mineral shown in order of abundance.
- S SILLIMANITE
 - K KYANITE
 - S SERICITE
 - st STAUROLITE
 - g GARNET
 - m MAGNETITE
 - f FELDSPAR
 - F FLUORITE
 - T TALC
 - t TOURMALINE
 - C CHLORITE
 - a AMPHIBOLE
 - >5% SULPHIDE
 - ⊛ DISSEMINATED GOSSAN
 - b BIOTITE

GEOLOGICAL BOUNDARIES

- ACCURATE
- - - - - APPROXIMATE
- ? - ? - - INFERRED

ROCK GEOCHEMISTRY

- >1% Cu
- 1000ppm - 1% Cu
- 500 - 1000ppm Cu
- 0 - 500ppm Cu
- 840ppm Cu COPPER AUGER ANOMALY

FIG. 10.

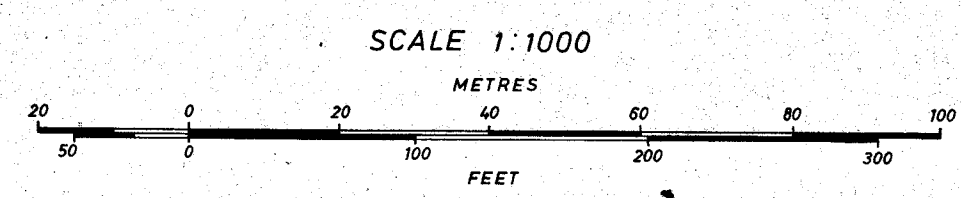
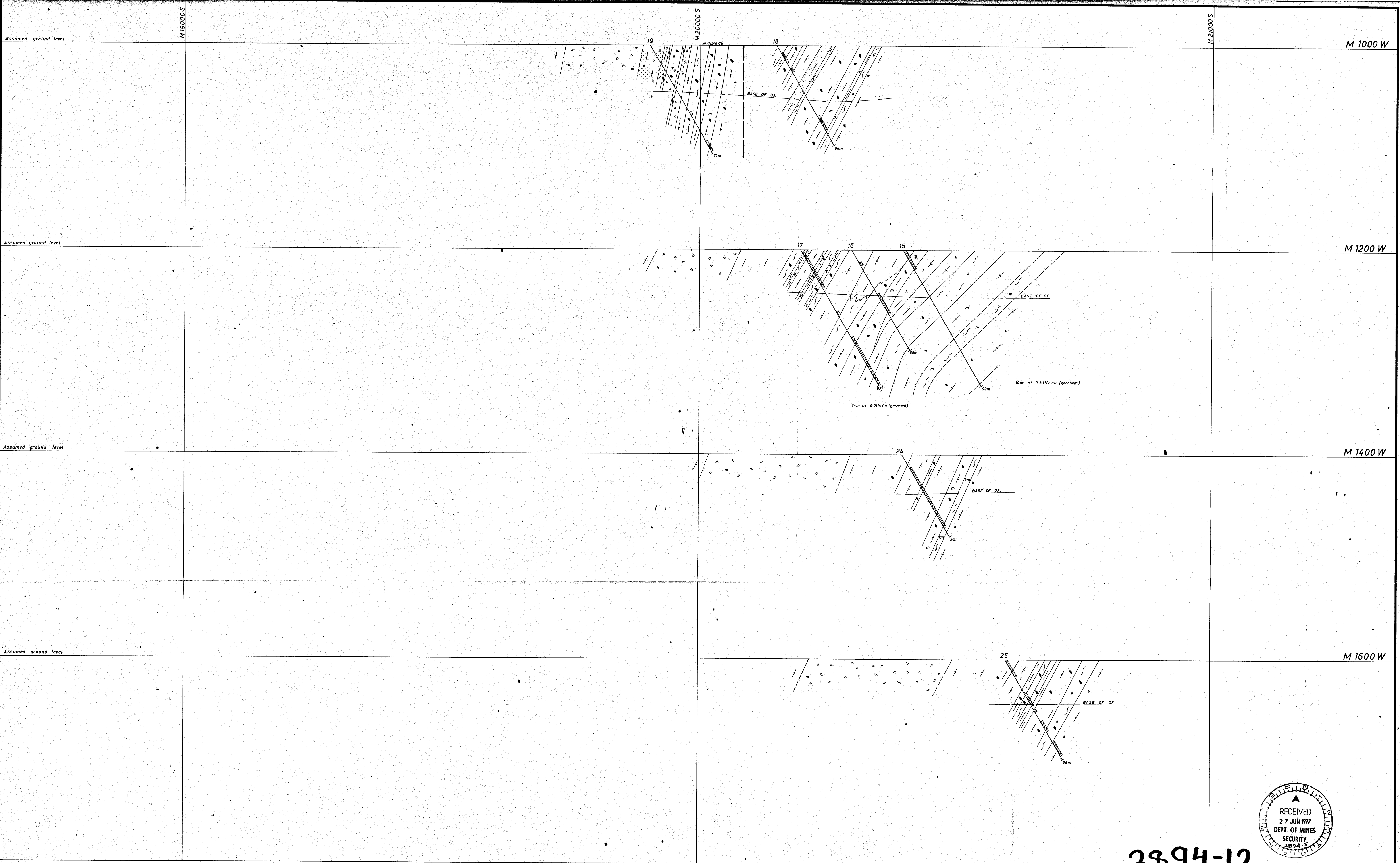
AUSTRALIAN SELECTION (PTY) LTD.

TRINITY - E.L. 274

KING DAM PROSPECT

SECTION LINES M 200 W , M 400 W , M 600 W , M 800 W

Revisions	Date	Compiled by	Date
		J.A.O.	FEB. '77
		Drawn by	"
		Traced by	R.W. JUNE '77
		Checked by	
PLAN NUMBER : A S 6571			



METASEDIMENTARY ROCKS

- QUARTZITIC ROCKS** (Possible chemical sediments) : Metaquartzites and quartz gneisses with minor mica and magnetite, includes magnetite metaquartzites.
- PSAMMITIC ROCKS** : Quartz-orthoclase gneisses with minor mica and magnetite.
- PSAMMOPELITIC ROCKS** : Quartz-mica (biotite and/or sericite) (<40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.
- PELLITIC ROCKS** : Mica (biotite, sericite and/or muscovite) - quartz schists (<40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.
- BASIC ROCKS**
- FINE-GRAINED AMPHIBOLITE** : Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).
- Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.
- Quartz vein

OVERPRINTS

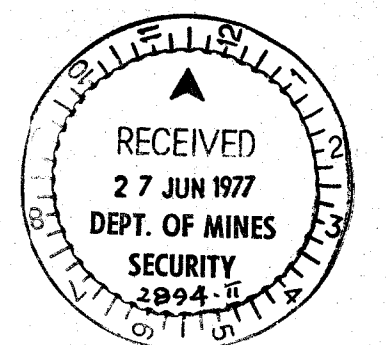
- The following overprints are used to show distinctive minerals in a unit (if more than one mineral, shown in order of abundance)
- S SILLIMINITE
K KYANITE
S SERICITE
ST STAUROLITE
G GARNET
M MAGNETITE
F FELDSPAR
F FLUORITE
- T TALC
T TOURMALINE
C CHLORITE
A AMPHIBOLE
S >5% SULPHIDE
D DISSEMINATED GOSSAN
B BIOTITE

GEOLOGICAL BOUNDARIES

- ACCURATE
--- APPROXIMATE
--- INFERRED

ROCK GEOCHEMISTRY

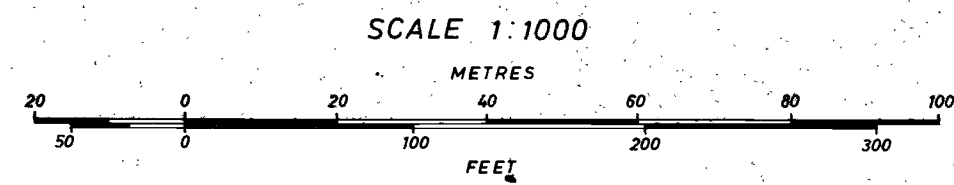
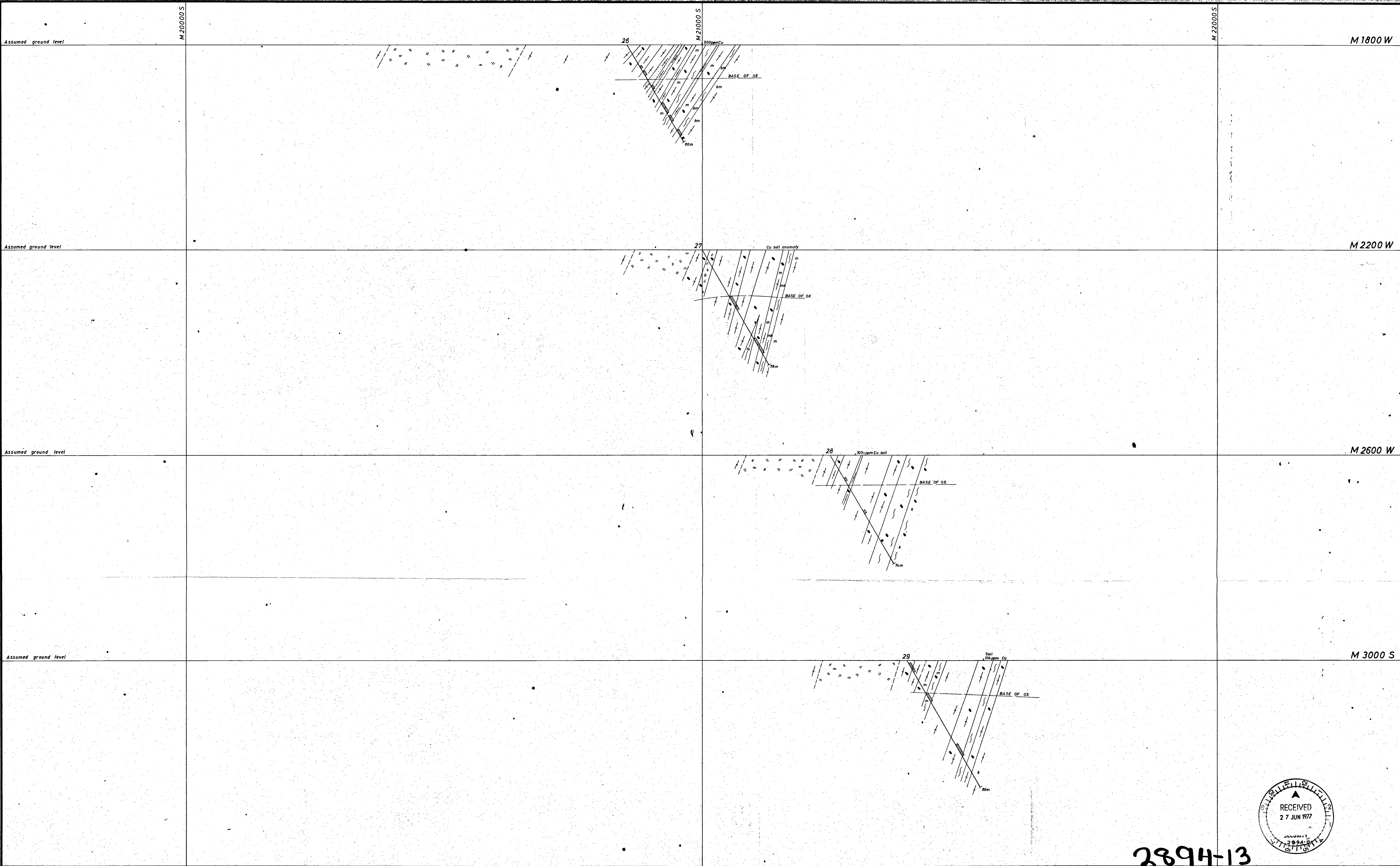
- >1% Cu
1000ppm - 1% Cu
500 - 1000ppm Cu
0 - 500ppm Cu
840ppm Cu
COPPER AUGER ANOMALY



2894-12

FIG. 11

AUSTRALIAN SELECTION (PTY) LTD.				
TRINITY - E.L. 274				
KING DAM PROSPECT				
SECTION LINES M 1000 W , M 1200 W , M 1400 W , M 1600 W				
Revisions	Date	Compiled by	J.A.O.	Date
		Drawn by	"	FEB. '77
		Traced by	R.W.	JUNE '77
		Checked by		
PLAN NUMBER: A S 6572				



METASEDIMENTARY ROCKS

- QUARTZITIC ROCKS** (Possible chemical sediments): Metaquartzites and quartz gneisses with minor mica and magnetite, includes magnetite metaquartzites.
- PSAMMITIC ROCKS**: Quartz-orthoclase gneisses with minor mica and magnetite.
- PSAMMOPELITIC ROCKS**: Quartz-mica (biotite and/or sericite) (<40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.
- PELLITIC ROCKS**: Mica (biotite, sericite and/or muscovite) - quartz schists (<40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.
- BASIC ROCKS**
- FINE-GRAINED AMPHIBOLITE**: Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).
- Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.

OVERPRINTS

- The following overprints are used to show distinctive minerals in a unit. If more than one mineral, shown in order of abundance.
- S SILLIMINITE
K KYANITE
C CHLORITE
ST STAUROLITE
G GARNET
M MAGNETITE
F FELDSPAR
F FLUORITE
- T TALC
T TOURMALINE
C CHLORITE
A AMPHIBOLE
S >5% SULPHIDE
D DISSEMINATED GOSSAN
B BIONITE

GEOLOGICAL BOUNDARIES

- ACCURATE
- - - APPROXIMATE
- - - - INFERRED

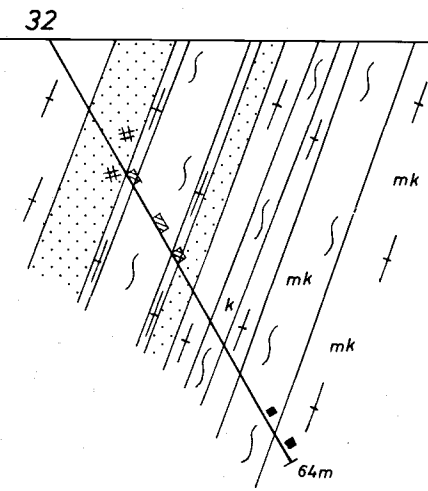
ROCK GEOCHEMISTRY

- >1% Cu
 1000ppm - 1% Cu
 500 - 1000ppm Cu
 0 - 500ppm Cu
 500ppm Cu
COPPER AUGER ANOMALY

AUSTRALIAN SELECTION (PTY) LTD.				
TRINITY - E.L. 274				
KING DAM PROSPECT				
SECTION LINES M 1800 W , M 2200 W , M 2600 W , M 3000 W				
Revisions	Date	Compiled by	J.A.O.	Date
		Drawn by	"	"
		Traced by	R.W.	JUNE '77
		Checked by		
PLAN NUMBER: A S 6573				

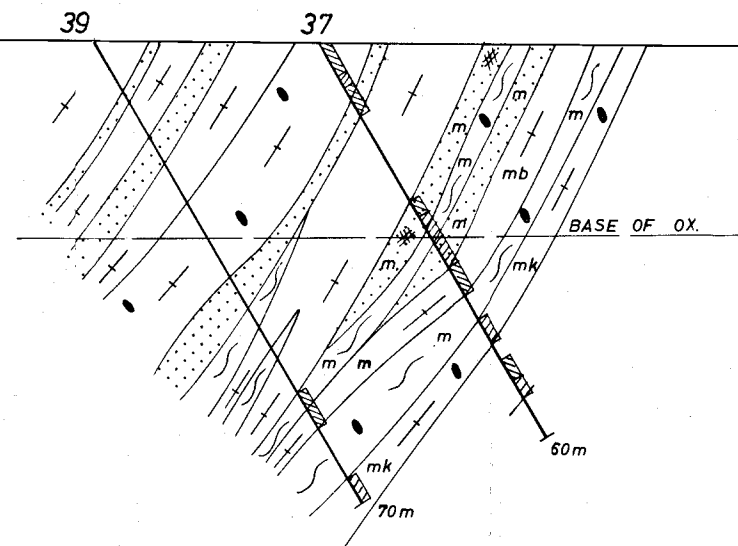
Assumed ground level

M 200 E



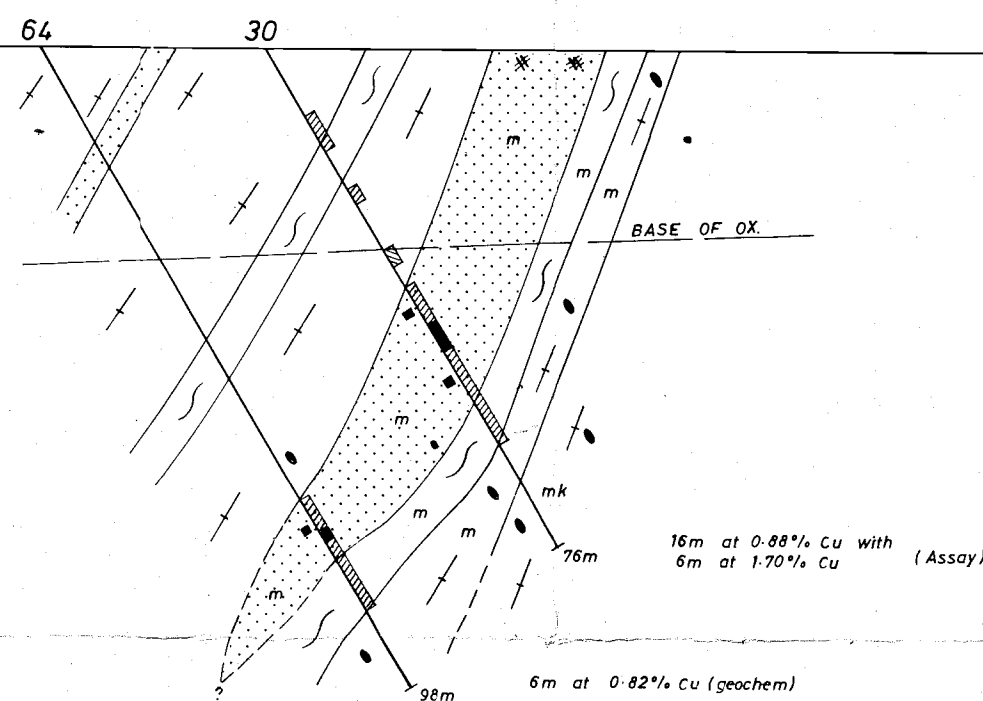
Assumed ground level

M 100 E



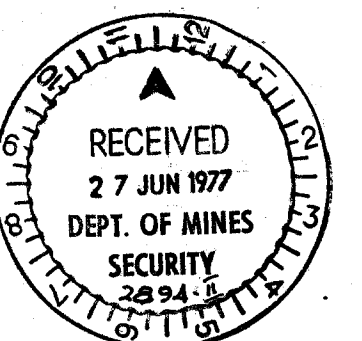
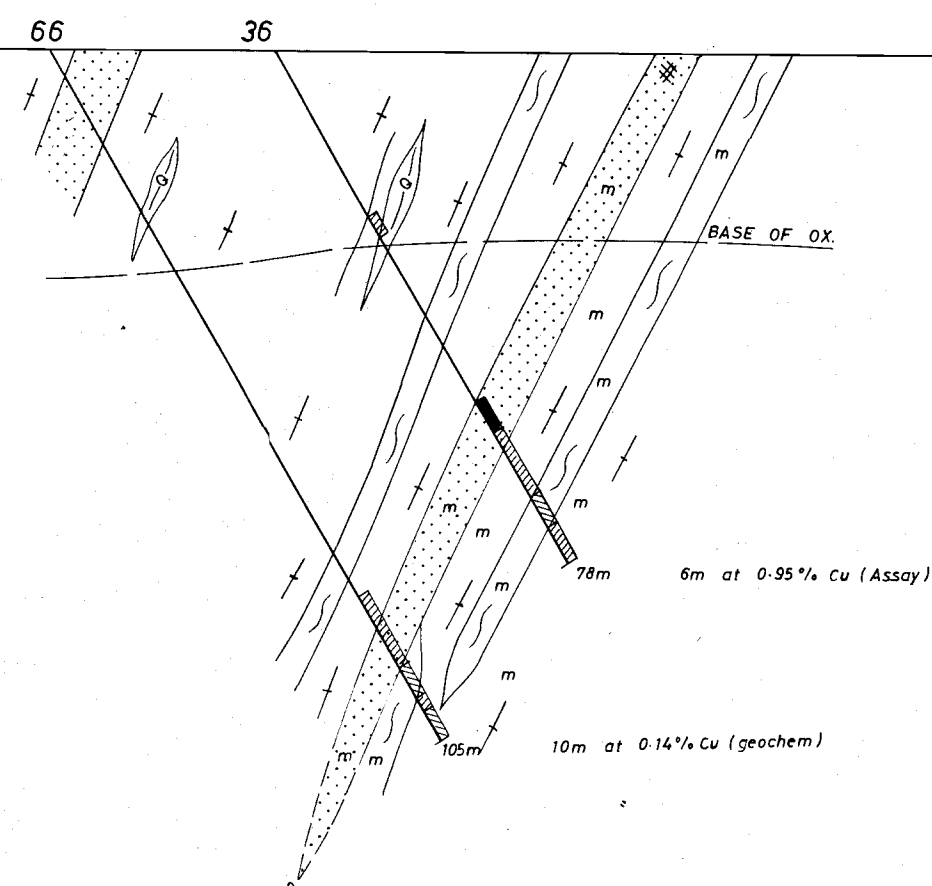
Assumed ground level

M 00

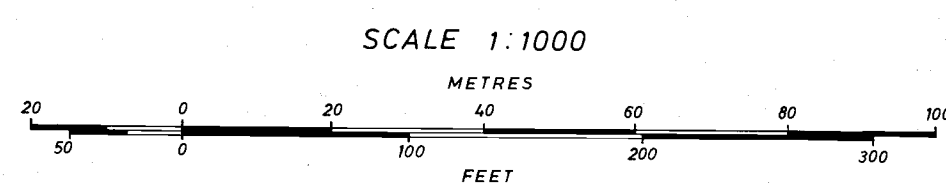


Assumed ground level

M 100 W



2894-14



METASEDIMENTARY ROCKS

- QUARTZITIC ROCKS** (Possible chemical sediments) : Metaquartzites and quartz gneisses with minor mica and magnetite, includes magnetite metaquartzites.
- PSAMMITIC ROCKS** : Quartz-orthoclase gneisses with minor mica and magnetite.
- PSAMMOPELITIC ROCKS** : Quartz-mica (biotite and/or sericite) (<40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.
- BEELITIC ROCKS** : Mica (biotite, sericite and/or muscovite) - quartz schists (<40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.
- BASIC ROCKS**
- FINE GRAINED AMPHIBOLITE** : Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).
- Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.
- Quartz vein

OVERPRINTS

The following overprints are used to show distinctive minerals in a unit (if more than one mineral, shown in order of abundance.)

- S SILLIMINITE
k Kyanite
s SERICITE
st STAUROLITE
g GARNET
m MAGNETITE
f FELDSPAR
F FLUORITE
- T TALC
t TOURMALINE
c CHLORITE
a AMPHIBOLE
s > 5% SULPHIDE
d DISSEMINATED GOSSAN
b BIOTITE

GEOLOGICAL BOUNDARIES

- ACCURATE
--- APPROXIMATE
- - - - - INFERRED

ROCK GEOCHEMISTRY

- > 1% Cu
1000ppm - 1% Cu
500 - 1000ppm Cu
0 - 500ppm Cu
- 840ppm Cu COPPER AUGER ANOMALY

FIG. 13

AUSTRALIAN SELECTION (PTY) LTD.

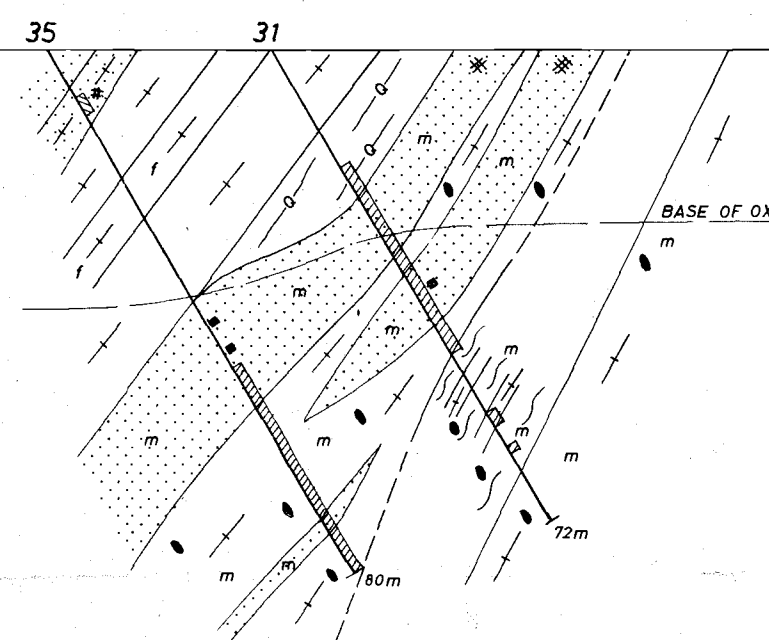
TRINITY - E.L. 274

STAR PROSPECT

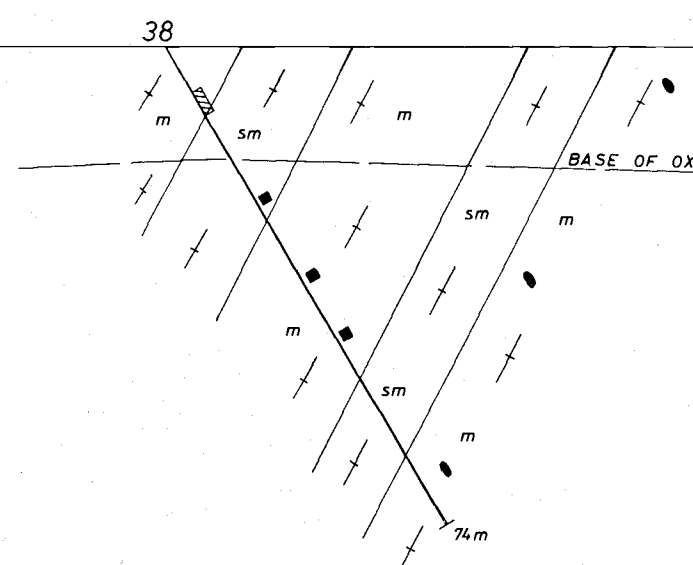
SECTION LINES M 200 E, M 100 E, M 00, M 100 W

Revisions	Date	Compiled by	Date
		J.A.O.	FEB '77
		Drawn by	" "
		Traced by	R.W.
		Checked by	JUNE '77
PLAN NUMBER: A S 6574			

M 200 W

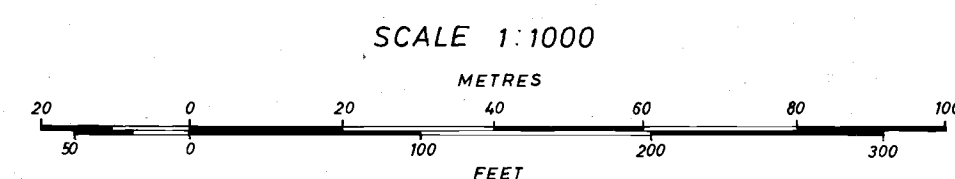


M 300 W



M

M



OVERPRINTS

The following overprints are used to show distinctive minerals in a unit. (If more than one mineral, shown in order of abundance.)

S	SILLIMINITE	T	TALC
k	KYANITE	t	TOURMALINE
s	SERICITE	C	CHLORITE
st	STAUROLITE	am	AMPHIBOLE
g	GARNET	■	> 5% SULPHUR
m	MAGNETITE	✱	DISSEMINATED
f	FELDSPAR	b	BIOTITE
F	FLUORITE		

st	STAUROLITE	Am	AMPHIBOLE
g	GARNET	■	> 5% SULPHIDE
m	MAGNETITE	✱	DISSEMINATED GOSSAN
f	FELDSPAR	b	BIOTITE

F FLUORITE

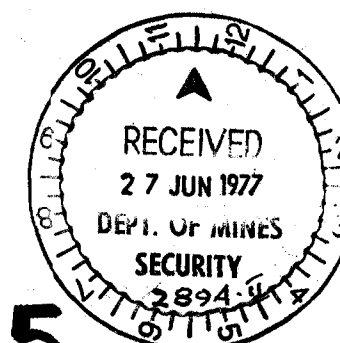
GEOLOGICAL BOUNDARIES

_____ ACCURATE
 - - - - - APPROXIMATE
 - ? - ? - INFERRED

— Q — Quartz vein

GEOLOGICAL BOUNDARIES

_____ ACCURATE
 ----- APPROXIMATE
 -?-?-? INFERRED



2894-15

FIG. 14.

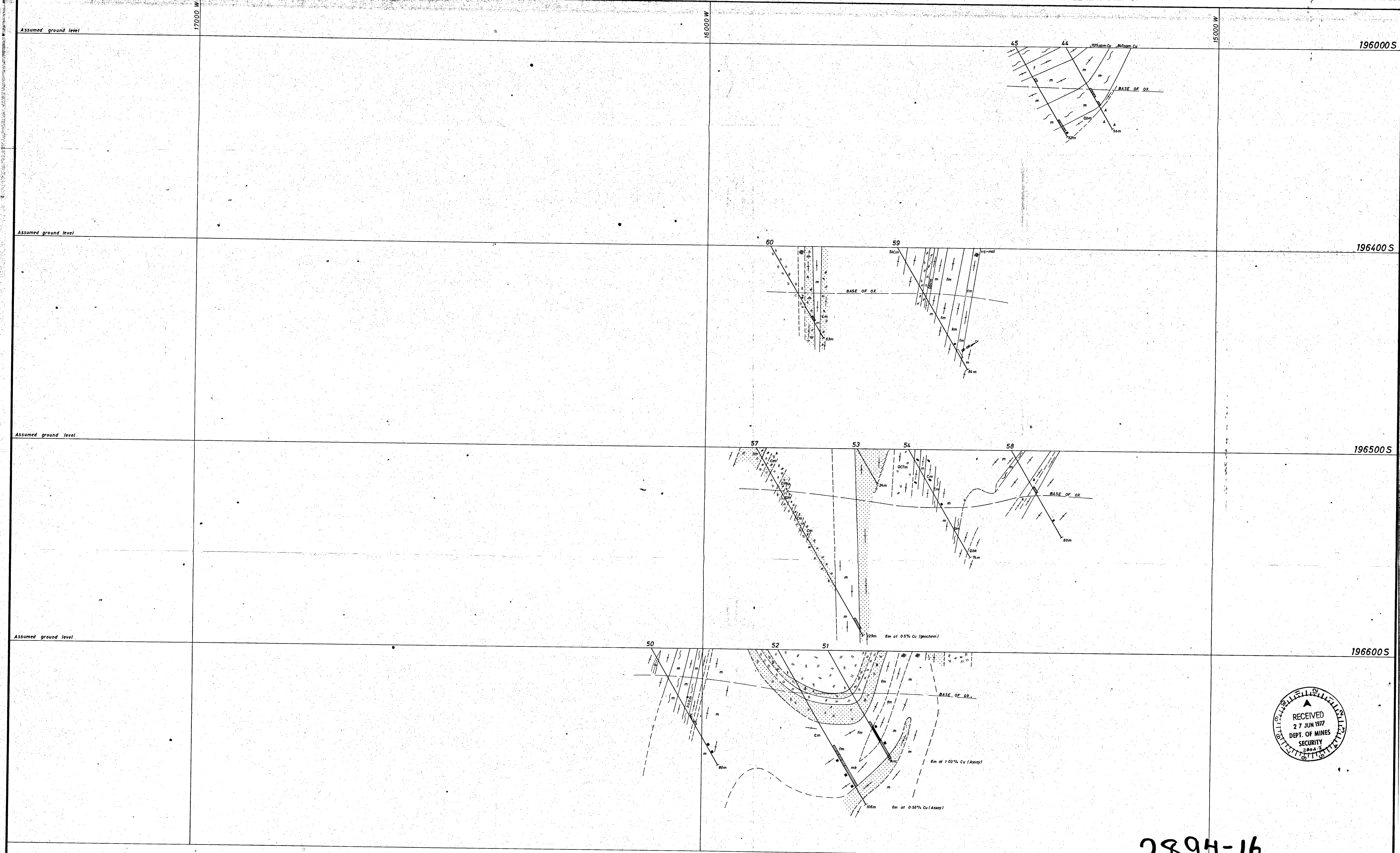
AUSTRALIAN SELECTION (PTY.) LTD.

TRINITY - E.L. 274

STAR PROSPECT

SECTION LINES M 200 W , M 300 W ,
M . M

Revisions	Date	Compiled by	J.A.O.	FEB.'77
		Drawn by	"	"
		Traced by	R.W.	JUNE '77
		Checked by		
		PLAN NUMBER:	AS 6575	



SCALE 1:1000

METRES

0 20 40 60 80 100

FEET

0 50 100 200 300

METASEDIMENTARY ROCKS

QUARTZITIC ROCKS (Possible chemical sediments) : Metaquartzites and quartz gneisses with minor mica and magnetite, includes magnetite metaquartzites.

PSAMMITIC ROCKS : Quartz-orthoclase gneisses with minor mica and magnetite.

PSAMMOPELITIC ROCKS : Quartz-mica (biotite and/or sericite) (40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.

PELITIC ROCKS : Mica (biotite, sericite and/or muscovite) - quartz schists (40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.

BASIC ROCKS

FINE GRAINED AMPHIBOLITE : Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).

Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.

Quartz vein

OVERPRINTS

The following overprints are used to show distinctive minerals in a unit. (If more than one mineral, shown in order of abundance.)

S SILLIMINITE
K KYANITE
S SERICITE
ST STAUROLITE
G GARNET
M MAGNETITE
F FELDSPAR
F FLUORITE

T TALC
T TOURMALINE
C CHLORITE
A AMPHIBOLE
S > 5% SULPHIDE
D DISSEMINATED GOSSAN
B BIOTITE

ROCK GEOCHEMISTRY

> 1% Cu
1000ppm - 1% Cu
500 - 1000ppm Cu
0 - 500ppm Cu

840ppm Cu COPPER AUGER ANOMALY

GEOLOGICAL BOUNDARIES

— ACCURATE
--- APPROXIMATE
- - - - - INFERRED

FIG. 15

AUSTRALIAN SELECTION (PTY.) LTD.

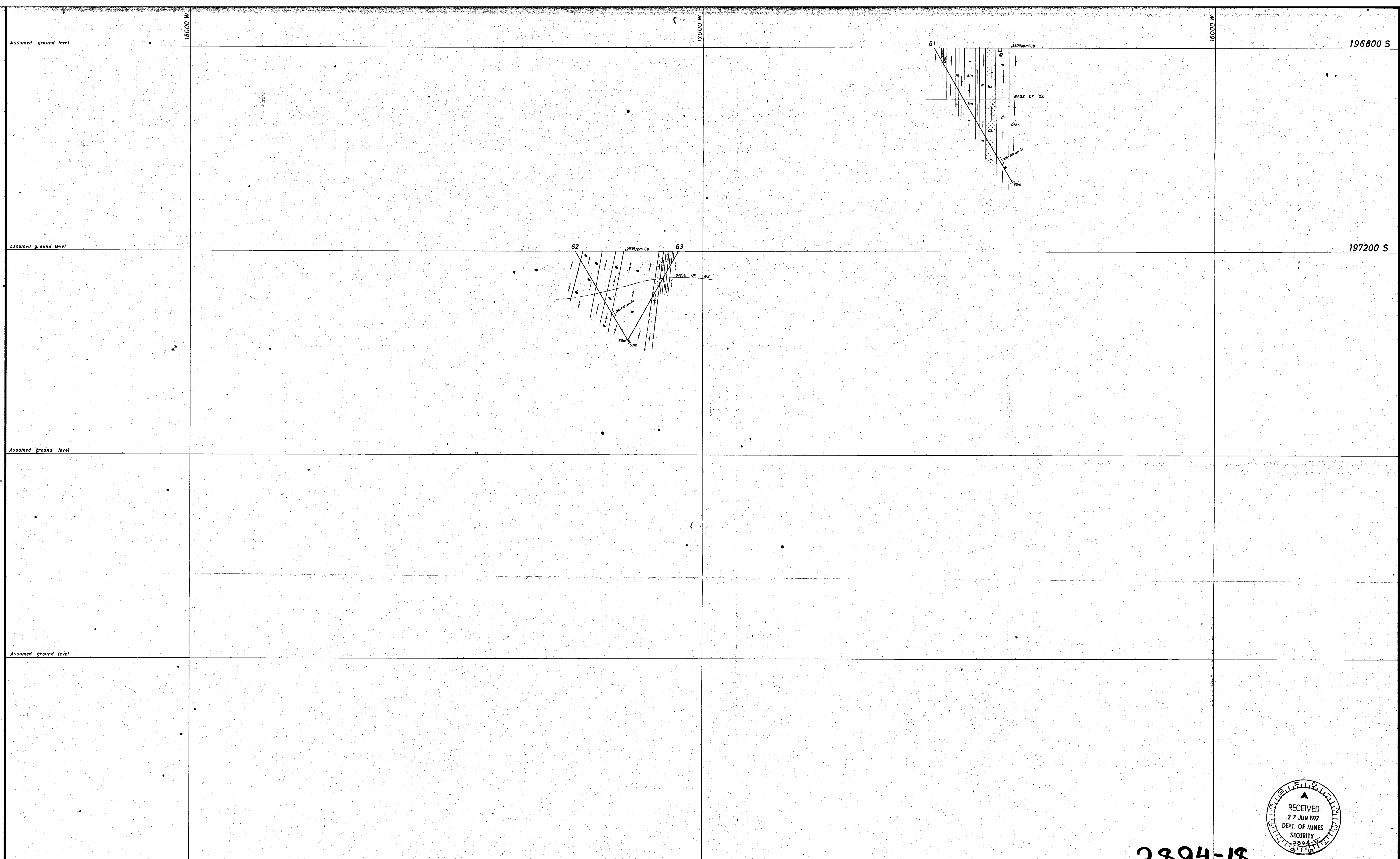
TRINITY - E.L. 274

TRINITY MINE

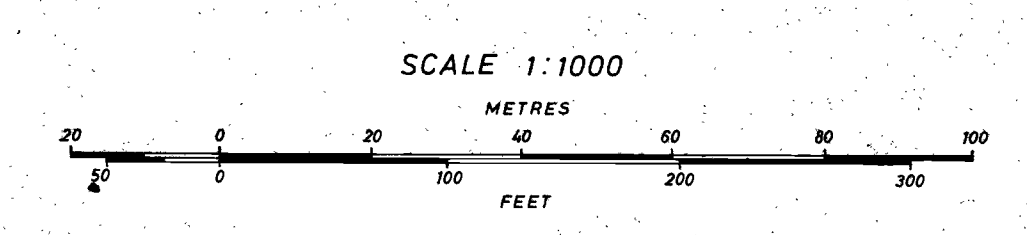
SECTION LINES 196000 S, 196400 S, 196500 S, 196600 S.

Revisions	Date	Compiled by	Date
		J.A.O.	FEB. '77
		Drawn by	"
		Traced by	R.W.
		Checked by	JUNE '77

PLAN NUMBER: AS 6576



2894-18



- METASEDIMENTARY ROCKS**
- QUARTZITIC ROCKS (Possible chemical sediments) : Metaquartzites and quartz gneisses with minor mica and magnetite. Includes magnetite metaquartzites.
 - PSAMMITIC ROCKS : Quartz-orthoclase gneisses with minor mica and magnetite.
 - PSAMMOPELITIC ROCKS : Quartz-mica (biotite and/or sericite) (>40%) gneisses often with distinctive minerals such as feldspar, garnet, magnetite and/or kyanite in smaller amounts.
 - PELITIC ROCKS : Mica (biotite, sericite and/or muscovite) - quartz schists (>40% quartz) (often gneisses) with distinctive minerals such as garnet, sillimanite, staurolite, kyanite and/or magnetite in smaller amounts.
- BASIC ROCKS**
- FINE GRAINED AMPHIBOLITE : Hornblende-plagioclase rocks often with magnetite, epidote and quartz (up to 30%).
 - Quartz rich amphibolites and quartz-feldspar-amphibole gneisses with mica and chlorite.
 - Quartz vein

- OVERPRINTS**
- The following overprints are used to show distinctive minerals in a unit. (If more than one mineral, shown in order of abundance.)
- | | |
|---------------|---------------------|
| S SILLIMINITE | T TALC |
| K KYANITE | T TOURMALINE |
| S SERICITE | C CHLORITE |
| ST STAUROLITE | A AMPHIBOLE |
| G GARNET | S >5% SULPHIDE |
| M MAGNETITE | DISSEMINATED GOSSAN |
| F FELDSPAR | b BIOTITE |
| F FLUORITE | |
- GEOLOGICAL BOUNDARIES**
- ACCURATE
 - APPROXIMATE
 - INFERRED

- ROCK GEOCHEMISTRY**
- >1% Cu
 - 1000ppm - 1% Cu
 - 500 - 1000ppm Cu
 - 0 - 500ppm Cu
 - 840ppm Cu COPPER AUGER ANOMALY

FIG. 17.				
AUSTRALIAN SELECTION (PTY) LTD.				
TRINITY - E.L. 274				
TRINITY MINE				
SECTION LINES 196800 S, 197200 S				
Revisions	Date	Compiled by	J.A.O.	Date
		Drawn by	"	FEB. '77
		Traced by	"R.W.	JUNE '77
		Checked by		
PLAN NUMBER: A S 6570				

AUSTRALIAN SELECTION (PTY) LIMITED

TRINITY E.L. 274

THIRD QUARTERLY REPORT

23RD MAY, TO 22ND AUGUST, 1977



TRINITY E.L. 274

THIRD QUARTERLY REPORT

23RD MAY, TO 22ND AUGUST, 1977

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T A B L E S

- 1 GRIDDING STATISTICS
2. SIGNIFICANT GOSSAN SAMPLE RESULTS

A P P E N D I C E S

- 1 Radiometric logs of percussion holes PTM - 30, 31, 36, 37, 39, 49, 50, 51, 55, 61, 64, and 66.
- 2 Multielement geochemical results PTM - 30, PTM - 51 and PTMD - 1.
- 3 Rock chip sample results Cu, Pb, Zn, Ag, Mn and As. Sample sheets 91363 - 4; 107161 - 68; 107234, 37, 38, 40, 93 - 4; 107320; 13105. Will be presented at a later date.

F I G U R E S

<u>Fig. No.</u>	<u>Title</u>	<u>Plan No.</u>
1	E.L. 274 Trinity - King Dam Magnetic Traverses and Contours Scale 1:6,000	AS 6727
2	E.L. 274 Trinity Mine Total Magnetic contour plan Scale 1:1000	AS 6725

1. INTRODUCTION

Geological mapping and gossan search continued with several new prospects being defined - McBrides North and Mingary Mine. Gridding was completed at Ballara, McBrides and Mingary Mine; in preparation for auger drilling.

Percussion holes in the Trinity Mine - King Dam area were levelled and several were logged down hole radiometrically. A multi-element geochemical study was commenced to compare trace elements in the mineralisation found to date on E.L. 224 with the Broken Hill mineralisation. Ground magnetic surveys were completed in the King Dam - Trinity Mine area for structural and stratigraphical information.

2. PERSONNEL AND EQUIPMENT

2.1. Exploration Division

Two geologists (one part time) and two field assistants (one part time) were employed on the project.

Field equipment consisted of a Holden Utility and a Land Rover.

A two-way radio was installed at Corella homestead exploration camp to improve communications with Port Augusta Office.

Supervision and back up were as for last quarter.

2.2. Drilling Division

A percussion drilling crew was employed from 20th to 28th July, 1977. No advance was made due to breakdown.

Equipment and supervision was as for last quarter.

2.3. Contractors

A gridding crew (Allen Services of Adelaide) a surveyor and 3 helpers was employed from 20th June to 11th August, 1977.

3. GENERAL GEOLOGY

Regional geological mapping (1:25,000) continued to the McBrides, Fallout Dam, Record Dam, White Dam, Pine Creek and Ballara areas. Plans showing this mapping will be presented in a later report. Also see previous quarterly report. AS 6563 and 6564.

In this mapping rocks have been divided into 5 groups.

The first includes amphibolites and the other four have been divided according to their quartz/feldspar/mica content. See below. The four latter groups can be related back to sedimentary rocks with some degree of confidence. That is most of the rocks in the Willyama complex are probably sediments; the terms psammite etc have been used to relate to original rock type.

1. Amphibolites - Including fine grained amphibolites, garnetiferous amphibolites, quartz amphibolites and coarse grained amphibolites.
2. Quartzites and quartz gneisses - Including copper mineralised magnetite quartzite (original chemical sediments).
3. Quartz - Orthoclase Gneisses (Psammitic)
4. Quartz - Mica Gneisses - (Psammo-Pelitic)
5. Mica Schists - (Pelitic).

A suite of 30 rock samples has been submitted for petrology to confirm this grouping.

4. GEOPHYSICS

4.1. Ground Magnetic Surveys

Ground magnetics surveys were completed at Trinity Mine, King Dam, Star and Stone Tank prospects to see if there were any correlation with base metal mineralisation.

A geometrics G 816 Proton magnetometer was used. Total magnetic intensity readings were taken at a station interval of 25 feet along lines 100 feet apart at Trinity Mine and Star Prospect and 200 feet at King Dam and Stone Tank Prospects.

Corrected results are presented as a contour plan.

4.1.1. Star Prospect

Ground magnetic data shows a linear anomalous zone extending west and east from the Quartz-magnetite copper iron sulphide body defined by previous percussion drilling. This high parallels the stratigraphy with a discrete high anomaly situated directly above the mineralised zone. A further displaced high immediately to the north-west indicates a folded or faulted extension of the quartz magnetite sulphide body. For geological and drill location plan see previous quarterly report. AS 6482.

Further to the east along strike at M 1,835 N 1,800 E is another similar anomaly. (Copper and gossan in an adjacent pit.)

4.1.2. King Dam Prospect

The magnetite - pyrrhotite main copper zone at King Dam gives a recognisable magnetic response along its entire strike length (see Figure 1.)

An intense magnetic high is situated over the quartz-magnetite-sulphide body at M 19,450 N 600 E, (intersected in PTM - 33 and PTM - 34) confirms that the body has a short strike length.

Amphibolites in the King Dam area are magnetically low.

4.1.3. Trinity Mine

The main mineralised zone (intersected in PTM - 51 at 196,600 S, 15,750 W, and PTM - 55 at 196,700 S, 15,750 W, Trinity Mine) gives a low but recognisable magnetic response at 196,700 S, 15,625 W. (see Figure 2.) Refer previous quarterly report AS 6565.

Along strike to the south at 196600 S 15600 W there is a weak magnetic high flanking a major high. The major high relates to an amphibolite and the flanking high may relate to a pod of mineralisation.

In contrast the low grade copper mineralised zones intersected in PTM - 48 and PTM - 49 give intense magnetic anomalies centred at 196,800 S 15,975 W reflecting their high pyrrhotite and magnetite content. Magnetic data suggests the most easterly zone extends as far as 197,400 S.

Amphibolites in contrast to those at King Dam are intensely magnetic.

Magnetic data does not suggest a synclinal closure at the southern end of the prospect.

4.1.4. Stone Tank

A magnetic high occurs at M 19800 S 4575 E to M 20000 S 4525 E over the Cu-Zn magnetite body intersected in PTM - 67 with strike extensions north and south (see Fig. 1.)

4.2. Down Hole Radiometric Logging

Downhole radiometric logging was conducted on percussion holes PTM - 30, 31, 36, 37, 39, 49, 50, 51, 55, 61, 64 and 66 at Trinity Mine and Star Prospect. An Austral downhole gamma-ray middilogger mounted in the back of a Toyota Land Cruiser was used. Results are presented in Appendix I.

At Star Prospect some correlation between holes was achieved. Mica schist units give high peaks while the quartz-magnetite body gives a low response.

Further work is in progress.

5. SURVEYING

Gridding was completed in the McBrides, Mingary and Ballara areas (see Table 1.)

Baselines were controlled by theodolite and chain with star pickets placed every 320 metres and wooden pegs at 80 m. intervals between. All grid lines were turned by theodolite.

Selected grid lines were controlled by chain and theodolite with pegs at 40 metre intervals. Others were controlled by line of sight and chain.

The orientation of the grids was determined using geological and aeromagnetic data.

TABLE I

	McBrides	Mingary	Ballara
Orientation of base line	50° N (true)	015° N (true)	40° N (true)
Line spacing	320 m	320 m	320 m
No. of lines	21	14	22
Theodolite controlled			
grid lines	13.4 km	13.6 km	9.2 km
Baseline	6.72 km	6.4 km	6.72 km
Line of sight controlled			
grid lines	40.8 km	29.8 km	78.8 km

5.1. Levelling

Percussion holes PTM - 1 to PTM - 72 and PTDC - 1 were levelled by

Wild automatic Level using a local datum. Results are not yet available.

6. MULTI-ELEMENT GEOCHEMISTRY

Gossans from Mutooroo and Trinity Mines and selected samples from percussion holes at Star Prospect and Trinity Mine were analysed for Ni, Cu, Pb, Zn, Ag, Mn, Fe, Sn, Hg, As, Se, Te, F, Ba, Be, Co, Cr, La, Mo, Sc and Sr to determine possible pathfinder elements for Pb - Zn - Cu mineralisation. Results appear in Appendix I.

These gossans are anomalous only in Cu and to a lesser extent As, Se and Te which are enriched compared to sulphides at depth. Mercury was anomalous in only one gossan from Mutooroo.

The copper intersection made in PTM - 51 (Trinity Mine) was bereft of anomalous trace elements; i.e. no pathfinders.

At Star Prospect the best copper intersection in the quartz-magnetite sulphide body (in PTM - 30) was studied. Only F and Ba were anomalous and in only seven samples.

Further work is in progress.

Samples from PTMD-1 (McBrides Grid) were analysed for Cu, Pb, Zn, Ag, As, Sn, Mn and selected samples for P and F to determine possible pathfinder elements for Zn - Pb - pyrite mineralisation (see Appendix I).

Mn is high in zinc rich sections and lower in the separating graphitic section; indicating possible use as a pathfinder. As is low in all but two samples. However As is anomalous in the gossans (see next section) and indicates it may form detectable secondary dispersion haloes. P is anomalous in only two samples.

7. MINERALISATION

During mapping many gossan samples were collected and submitted for geochemical analysis for Cu, Pb, Zn and Ag and some for Mn, As, Ni and Fe. A summary of the best results are listed in Table II.

A complete set of all results will be presented at a later date.

TABLE II

Sample No.	Cu ppm	Pb ppm	Zn ppm	Prospect Name
K 52746	3000	25	590	Mingary Mine
K 52853	680	330	2700	McBrides
K 52864	880	70	3600	Ballara
K 52696	370	280	7000	McBrides
K 52697	1000	1070	2500	McBrides
K 52698	265	1650	4200	McBrides
K 52738	6600	225	640	Eagles Nth
K 52786	2430	930	310	16 Mile Dam
K 52889	5700	2180	90	McBrides Nth
A 831483	750	85	2500	Star

7.1. Mingary Mine

Marked on the Ballara 1:63,360 geological map this mine has gossan and malachite on its dumps and is at the southern end of a prominent quartzite traceable for 3 kilometres.

North of the mine several prospecting pits occur in a thin highly gossanous magnetite quartzite sub-unit traced for 500 metres within the main quartzite (values up to 3830 ppm, Cu 590 ppm Zn, 70 ppm As.)

Wall rocks are silliminite-mica schists.

Several other gossanous quartzites returning values to 300 ppm Cu, 930 ppm Pb and 500 ppm Zn, have been mapped near amphibolites in the area.

7.2. McBrides

Further anomalous gossans have extended the Zn - Pb zones. The two main gossans were resampled. Best results were 2100 ppm Cu, 1650 ppm Pb, and 7000 ppm Zn, with interesting anomalous As, Ni and Mn.

7.3. McBrides North

Gossan float and subcrop occurs over a strike length of 500 metres at location 2 km N Hole MC - 1. Results are 1000 - 5700 ppm Cu, 800 - 2190 ppm Pb and to 275 ppm Zn. The zone appears to be a strike extension of that intersected by PTMD - 1.

400 metres to the east is another zone of gossan float giving values to 1510 ppm Cu, over a strike length of 1 kilometre.

A further 800 metres to the east gossan float (to 1510 ppm Cu and 510 ppm Zn) occurs with quartz-magnetite and banded iron formation float close to an amphibolite over a 1 kilometre strike length.

This zone shows particularly good potential.

7.4. Ballara

Further anomalous gossan float (1690 ppm Cu, 205 ppm Pb, 1170 ppm Zn, 2700 ppm Mn and 160 ppm As) was located in previously reported zones.

8. CONCLUSIONS

Gossans anomalous in base metals were located at several new prospects including Mingary Mine and McBride North the latter being anomalous in As, Ni and Mn and therefore showing similar geochemistry to Broken Hill gossans.

Ground magnetic results show a clear response to base metal sulphide rich zones and bodies at Star, Trinity, King Dam and Story Tank prospects. Magnetic anomalies along strike from these known bodies indicate continuation of base mineralisation. Further investigation particularly at Star Prospect is warranted.

Multi-element geochemical studies of trace elements showed no pathfinder for the monomineralic (Cu) Trinity Mine - King Dam type mineralisation and no obvious pathfinder for the Star Prospect type. However, F and Ba may be useful (pending further work).

Mn, As and possibly P, appear to be suitable pathfinder elements for McBrides Zn - Pb mineralisation and probably Ballara mineralisation.

9. RECOMMENDATION AND FUTURE WORK

At Star Prospect percussion drilling is warranted to test a magnetic anomaly related to a folded or faulted extension to the north west. Another magnetic anomaly to the east along strike also warrants drilling. Auger drilling is recommended to test other strike extensions to the Star Prospect.

At King Dam some in-fill auger drilling is recommended to cover a

magnetic high zone (with associated auger anomalies) south of known mineralisation.

At Trinity Mine percussion drilling is warranted to test a magnetic anomaly south of known mineralisation.

At Stone Tank auger drilling is warranted.

Grid Auger drilling is recommended at McBrides and Ballara and Mingary Grids to trace Zn - Pb and Cu zones defined by percussion drilling and gossan search.

Further work is warranted at McBrides North to investigate zones of anomalous Cu-Pb-Zn gossan float.

Geological mapping and gossan search will continue over the rest of the block.

J.A. OAKES,
GEOLOGIST.

TRINITY E.L. 274EXPENDITURE REPORT23RD MAY, TO 22ND AUGUST, 1977

	<u>3rd Quarter</u>	<u>Year to Date</u>
Exploration Staff	13,014	34,893
Exploration Logistics	4,655	15,417
Exploration Services	11,545	18,201
Property Costs	531	764
Percussion Drilling	-	35,607
Depreciation	1,060	3,295
Management & Administration	1,260	2,621
Exploration Administration	575	3,237
Total	\$ 32,640	\$ 114,035

NOTE: Expenditure shown above for the third quarter actually represents the quarter to 31st August, 1977.

APPENDIX I

PROJECT: *Trinity. EL 274.*

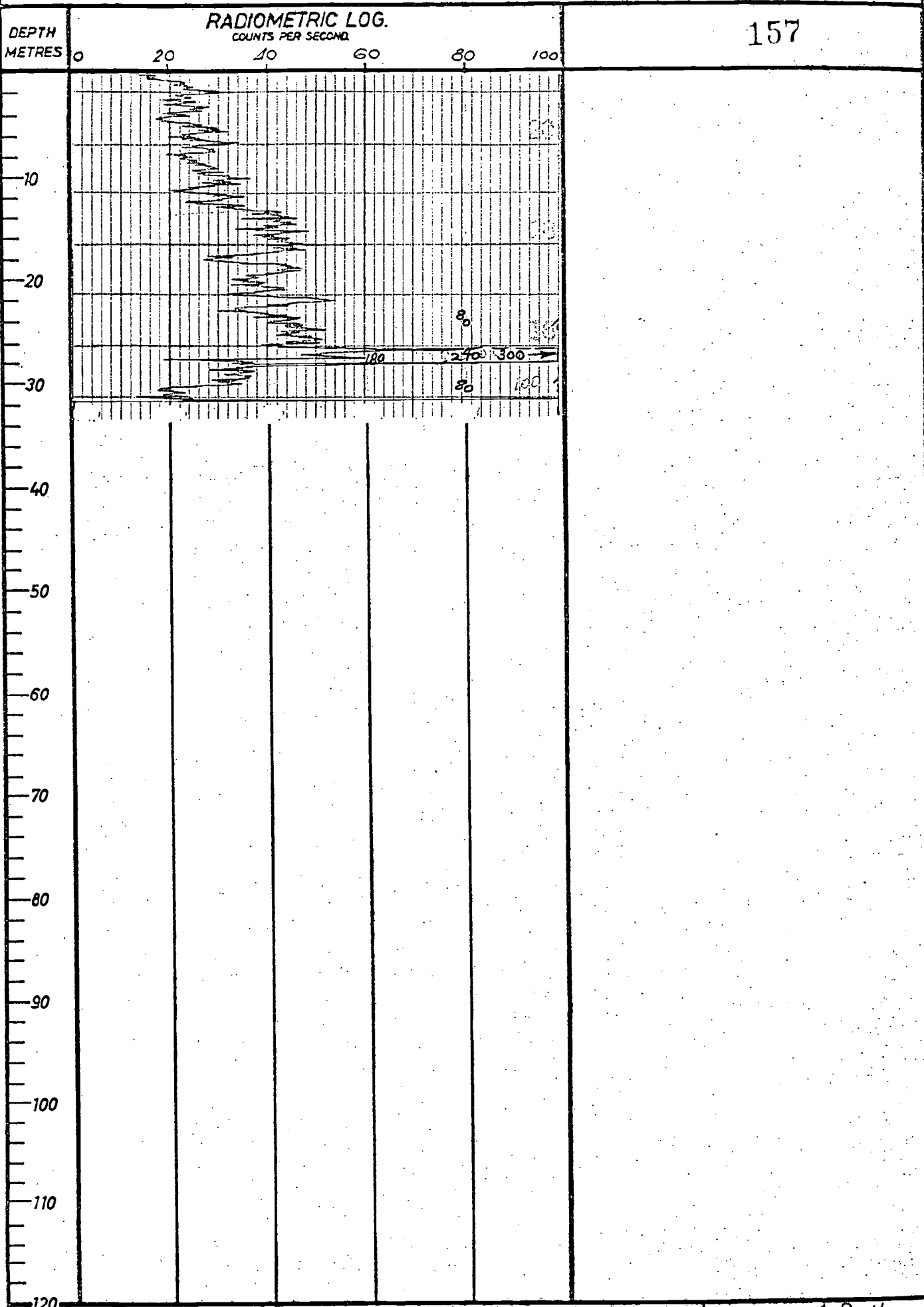
AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° *PTM-30*

PROSPECT: *Star*

PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.
TIME CONSTANT: *M* i.e. 2 secs. RANGE SETTING: 100 C/SEC. FULL SCALE.

LOGGED BY: *A. Padler*
DATE: *June '77*
DNC NO *AS 664*

PROJECT: *Trinity. EL 274.*

AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° *PTM-31.*

PROSPECT: *Star*

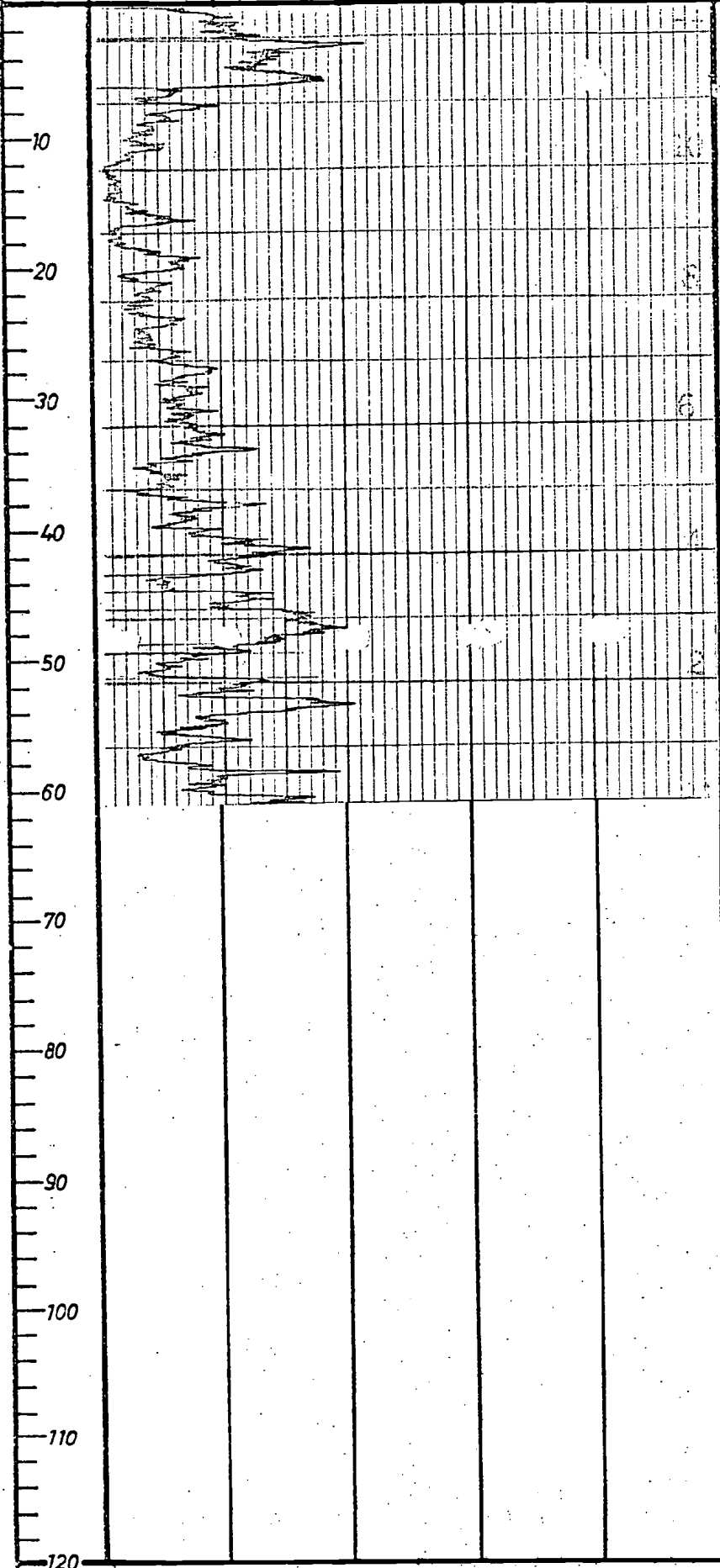
PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.

158

DEPTH METRES 0 20 40 60 80 100

RADIOMETRIC LOG.
COUNTS PER SECOND.



DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.
TIME CONSTANT: *M.i.e. 2 secs.* RANGE SETTING: *100.. C/SEC. FULL SCALE.*

LOGGED BY: *A. Pedler*
DATE: *June '77*

DOC N° *AS 1130*

PROJECT: *Trinity EL 274*

AUSTRALIAN SELECTION (PTY) LTD.

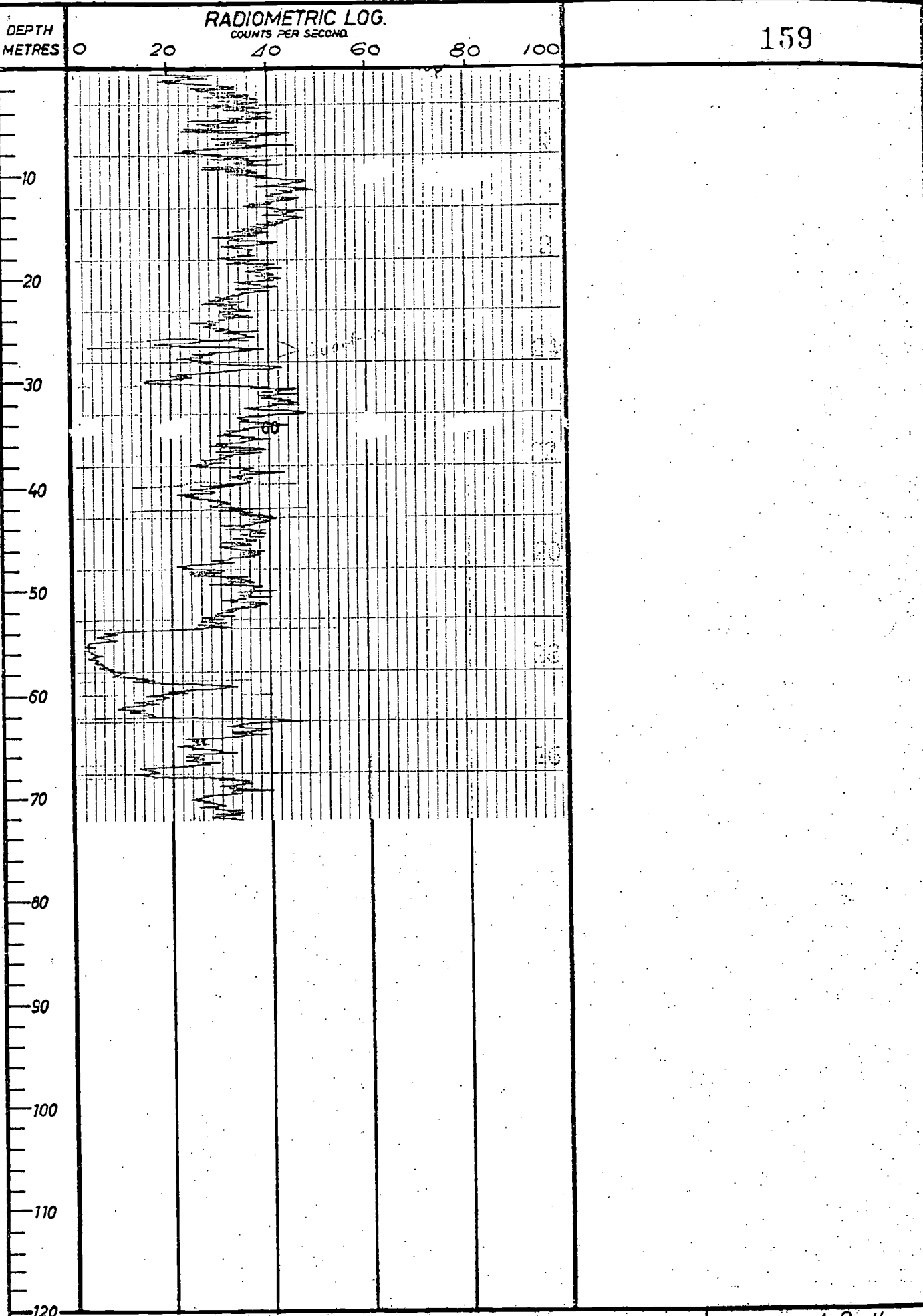
HOLE N° *PTM-36*

PROSPECT: *Star*

PERCUSSION DRILL HOLE.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.

ELECTRIC LOGS.



DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.

TIME CONSTANT: *M* i.e. 2secs. RANGE SETTING: 100 C/SEC. FULL SCALE.

SCALE SETTING 1:500

LOGGING SPEED 2 METRES PER MIN.

LOGGED BY: *A. Pedler*
DATE: *June '77*

DRG N° *AS 6639*

PROJECT: *Trinity EL 274*

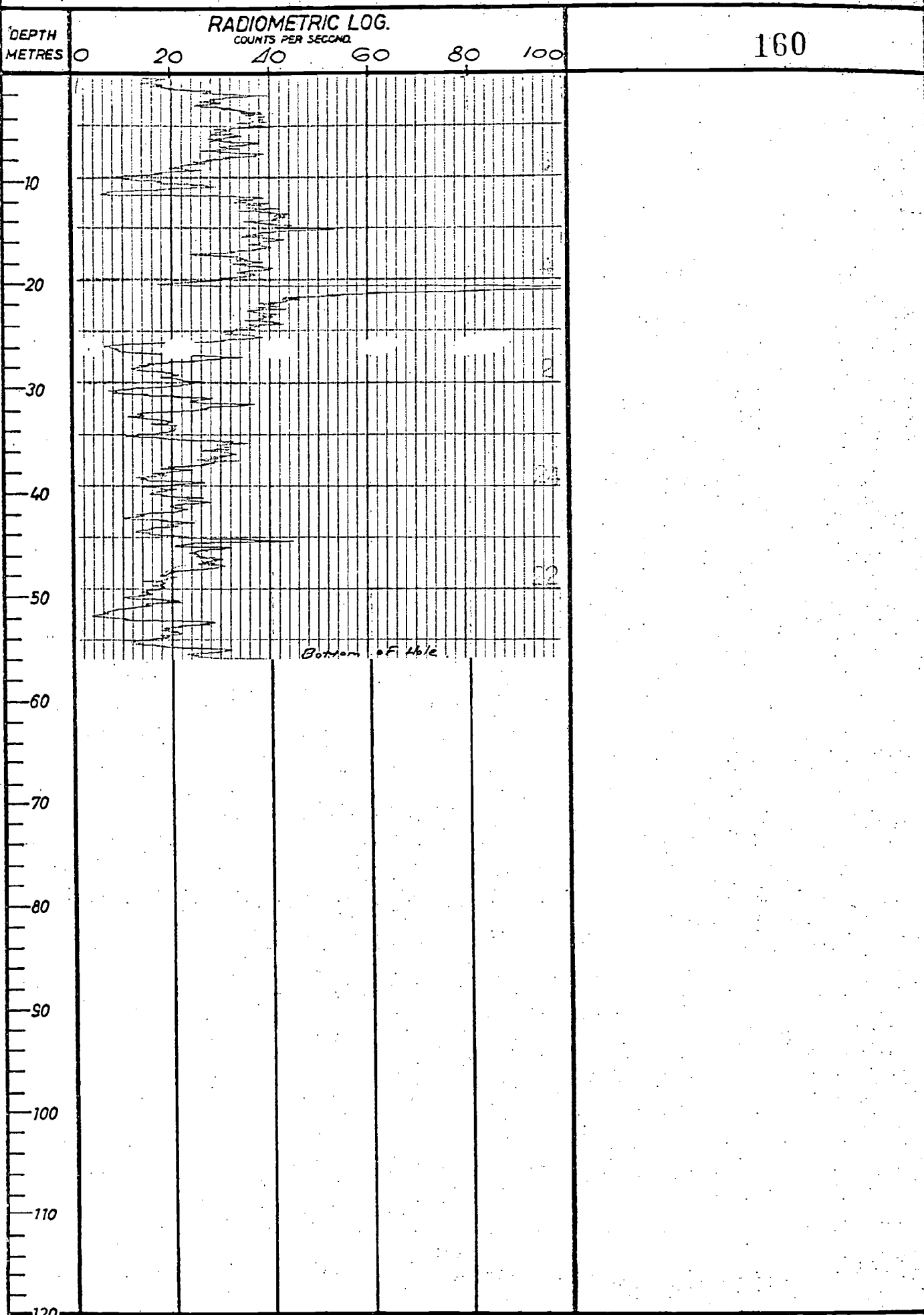
AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° *P/M-37*

PROSPECT: *Star*

PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.
TIME CONSTANT: *M* i.e. 2 secs. RANGE SETTING: 100 C/SEC. FULL SCALE.
SCALE SETTING: 1: 500..... LOGGING SPEED: 2 METRES PER MIN.

LOGGED BY: *A. Padler*
DATE: *June '77*
DRG N° *4632*

PROJECT: *Trinity EL274*

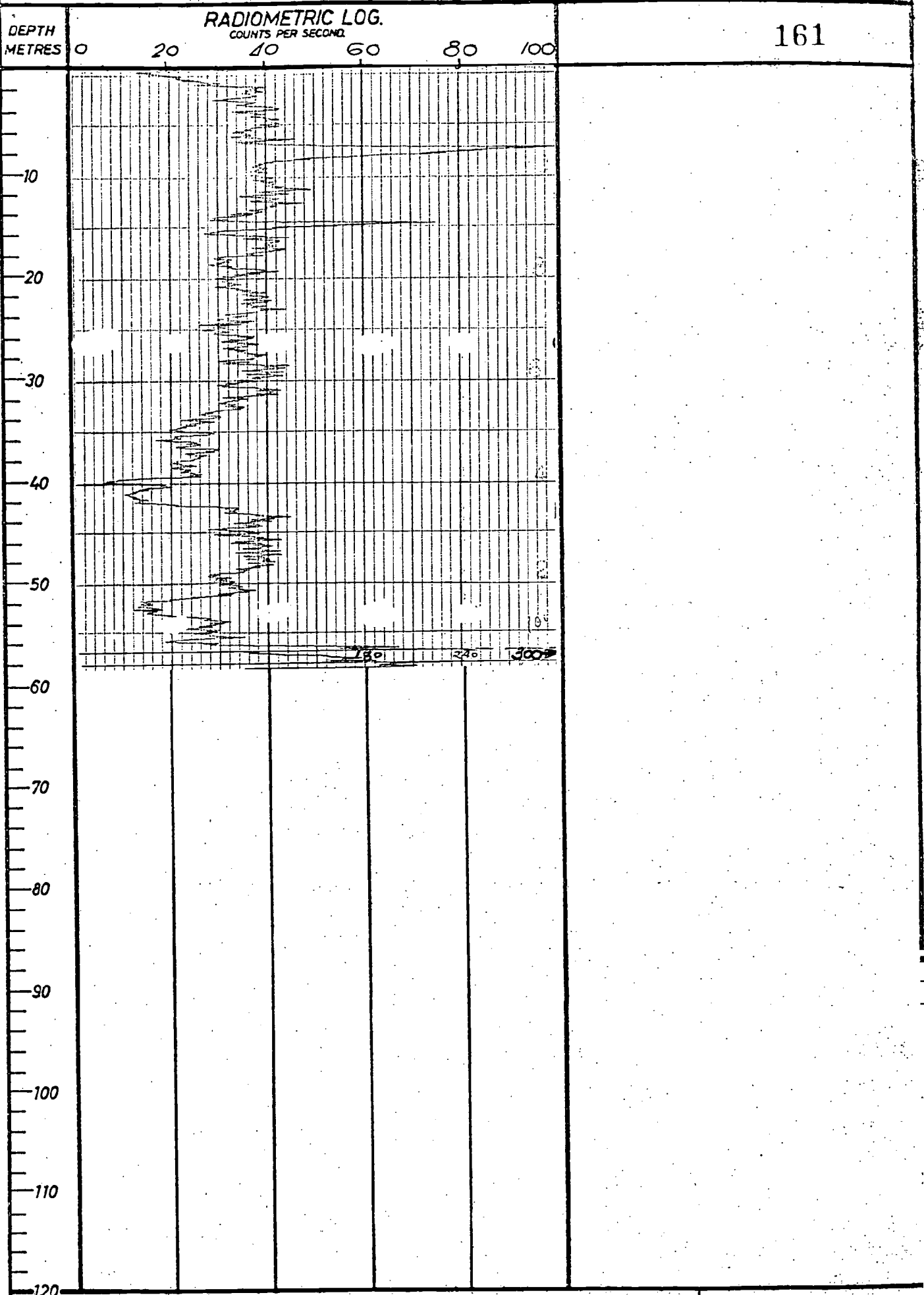
AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° *PTM-39*

PROSPECT: *Star*

PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.

TIME CONSTANT: *M* i.e. 2 secs. RANGE SETTING: 100 C/SEC. FULL SCALE.

SCALE SETTING 1: 500 LOGGING SPEED 2 METRES PER MIN

LOGGED BY:
DATE: *June 77*

DRG N° *AS 6637*

PROJECT: *Trinity EL 274*

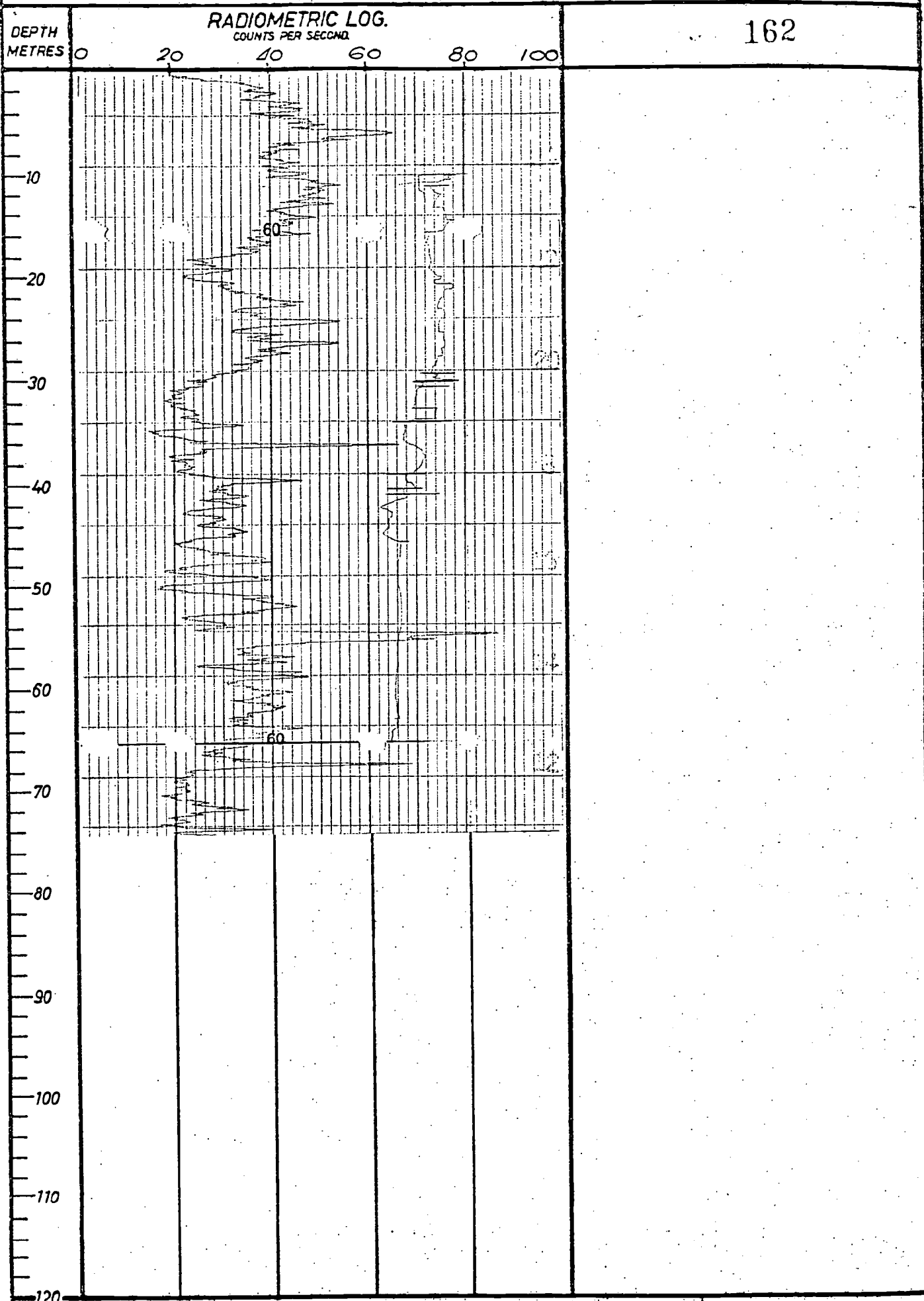
AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° *PTM-49*

PROSPECT: *Trinity Mine*

PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



162

DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.
TIME CONSTANT: RANGE SETTING: 100 C/SEC. FULL SCALE.
SCALE SETTING: 1:500 LOGGING SPEED METRES PER MIN

LOGGED BY:
DATE: *June '77*
DRG N° *AS 1136*

PROJECT: *Trinity EL 274*

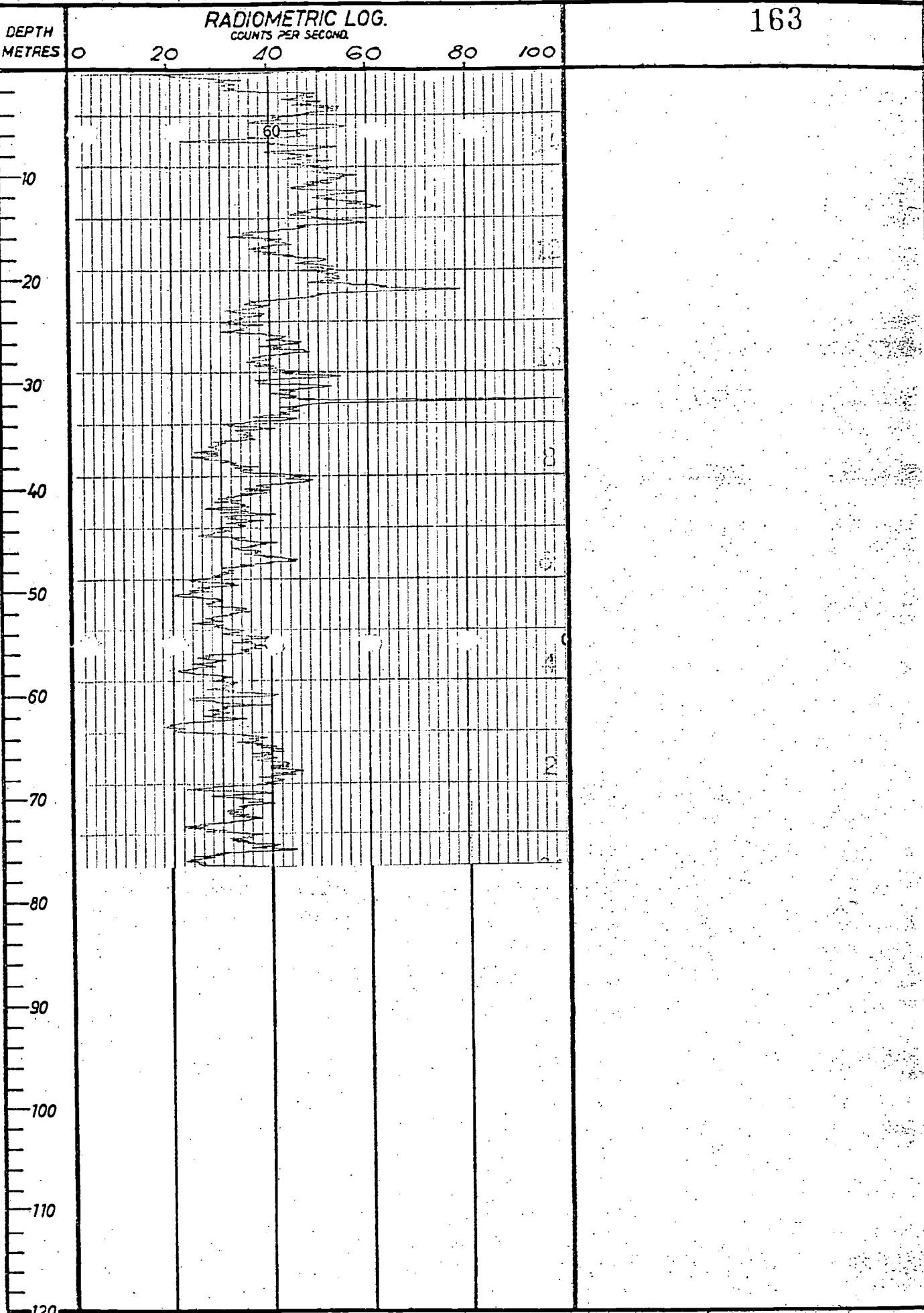
AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° *PTM-50*

PROSPECT: *Trinity Mine.*

PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



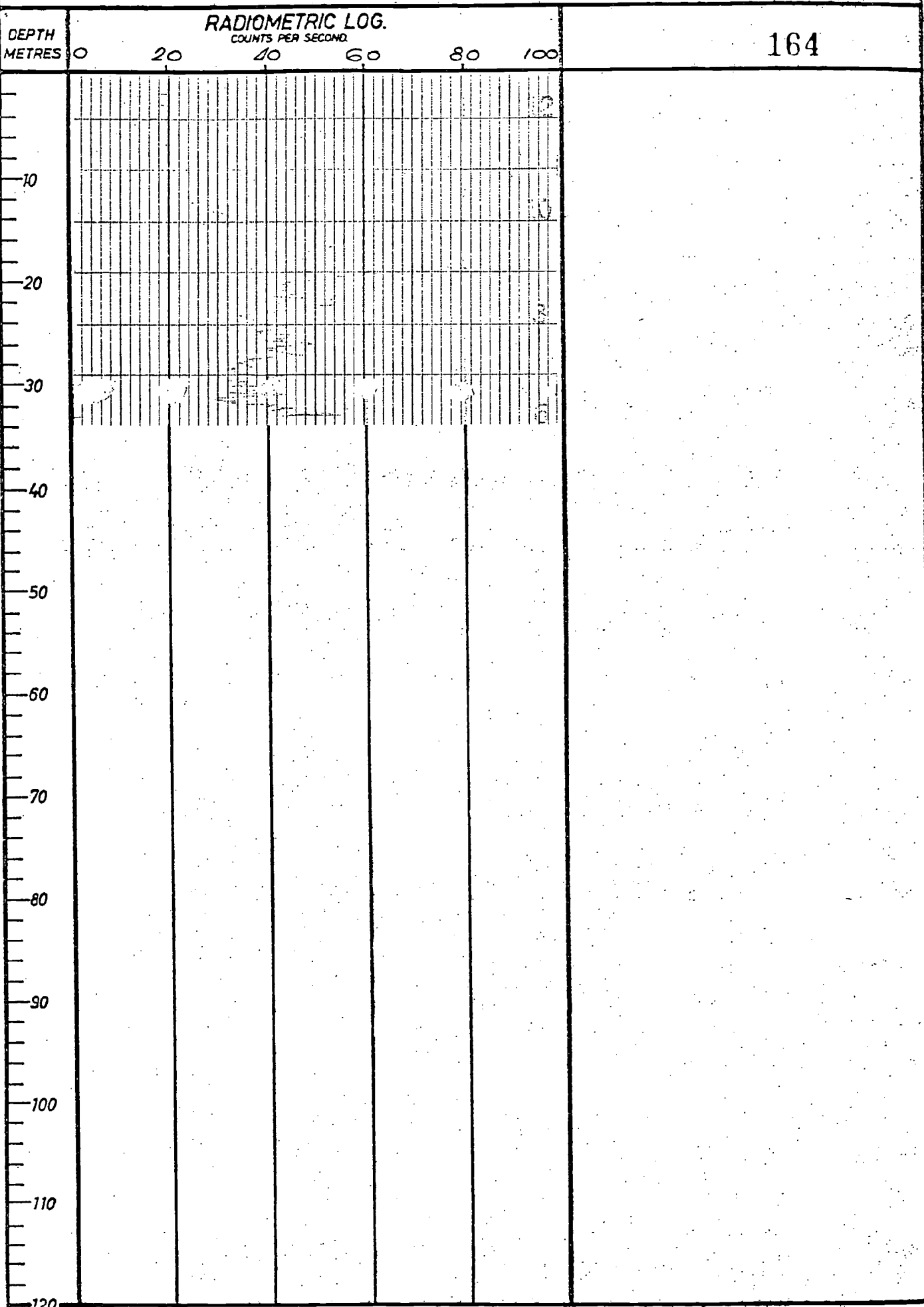
DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.
TIME CONSTANT: RANGE SETTING: 100 C/SEC. FULL SCALE.

LOGGED BY:
DATE: *June '77*
000 10 1 25

PROJECT: *Trinity EL 274*
PROSPECT: *Trinity Mine*
.....

AUSTRALIAN SELECTION (PTY) LTD.
PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

HOLE N° *PTM-51*
FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.
TIME CONSTANT: RANGE SETTING: 100 C/SEC. FULL SCALE.
SCALE SETTING: 1:500 LOGGING SPEED: METRES PER MIN

LOGGED BY:
DATE: *June '77*
DRG N° *48 6634*

PROJECT: *Trinity EL 274*

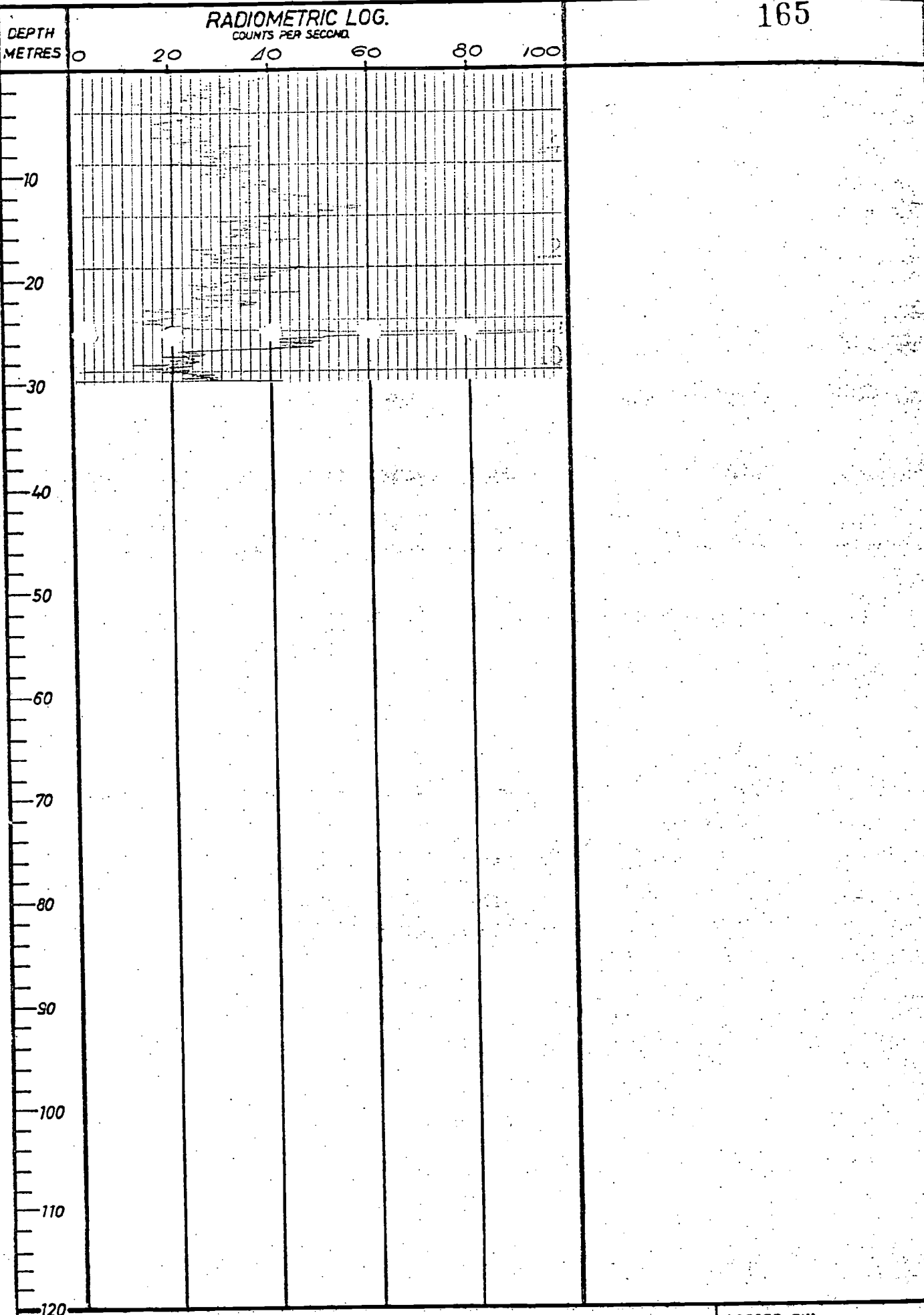
AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° *PTM-55*

PROSPECT: *Trinity Mine*

PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.
TIME CONSTANT: RANGE SETTING: /00 C/SEC. FULL SCALE.
SCALE SETTING 1: 500 LOGGING SPEED METRES PER MIN

LOGGED BY:
DATE: *June '77*
DRG N° *AS 6633*

PROJECT: *Trinity EL 274*

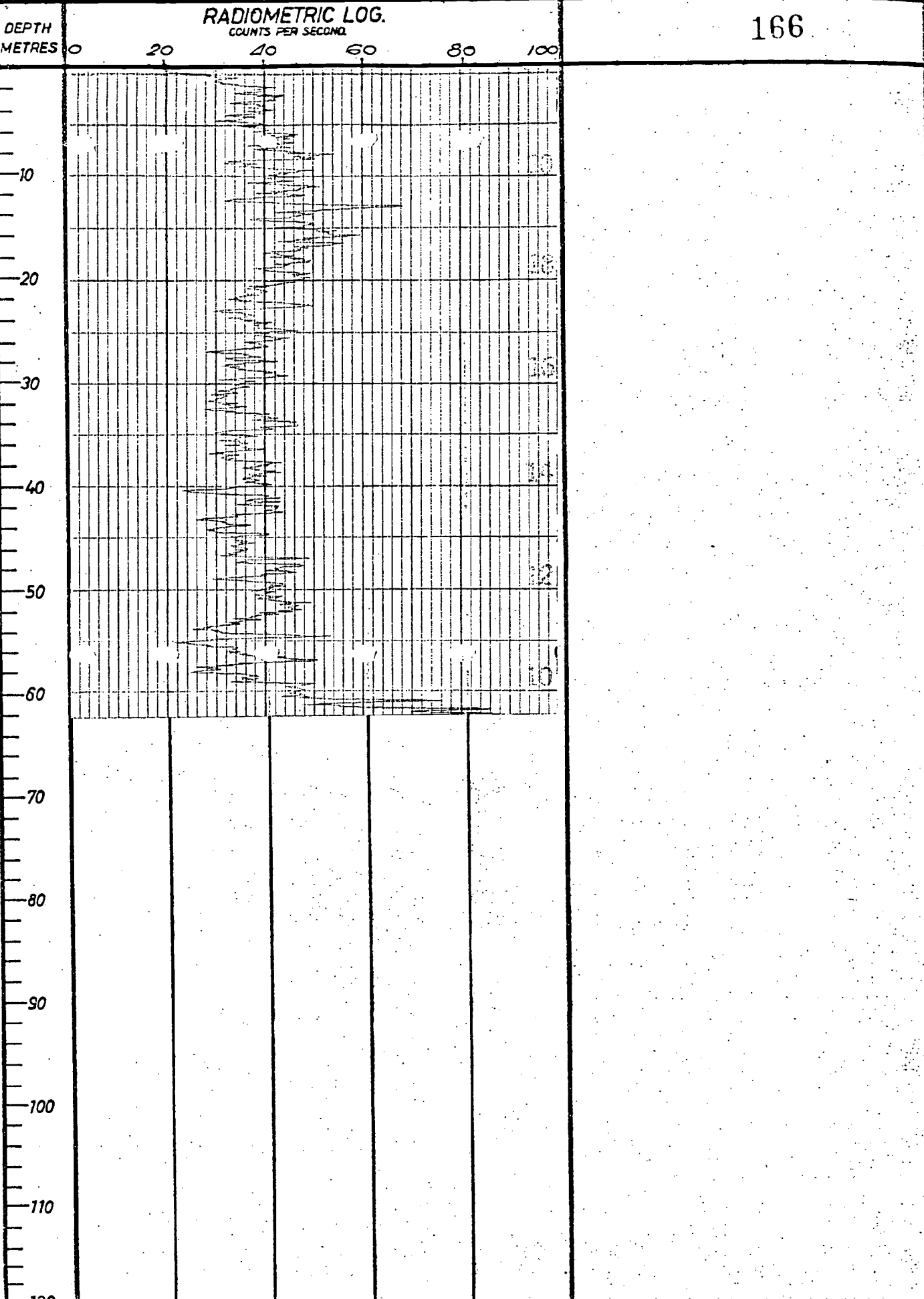
AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° *PTM-61*

PROSPECT: *Trinity Mine*

PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.
TIME CONSTANT: RANGE SETTING: 100 C/SEC. FULL SCALE.
SCALE SETTING: 500 LOGGING SPEED: METRES PER MIN.

LOGGED BY:
DATE: *June '77*.....
DRG N° *AG 1137*

PROJECT: Trinity. EL 274.

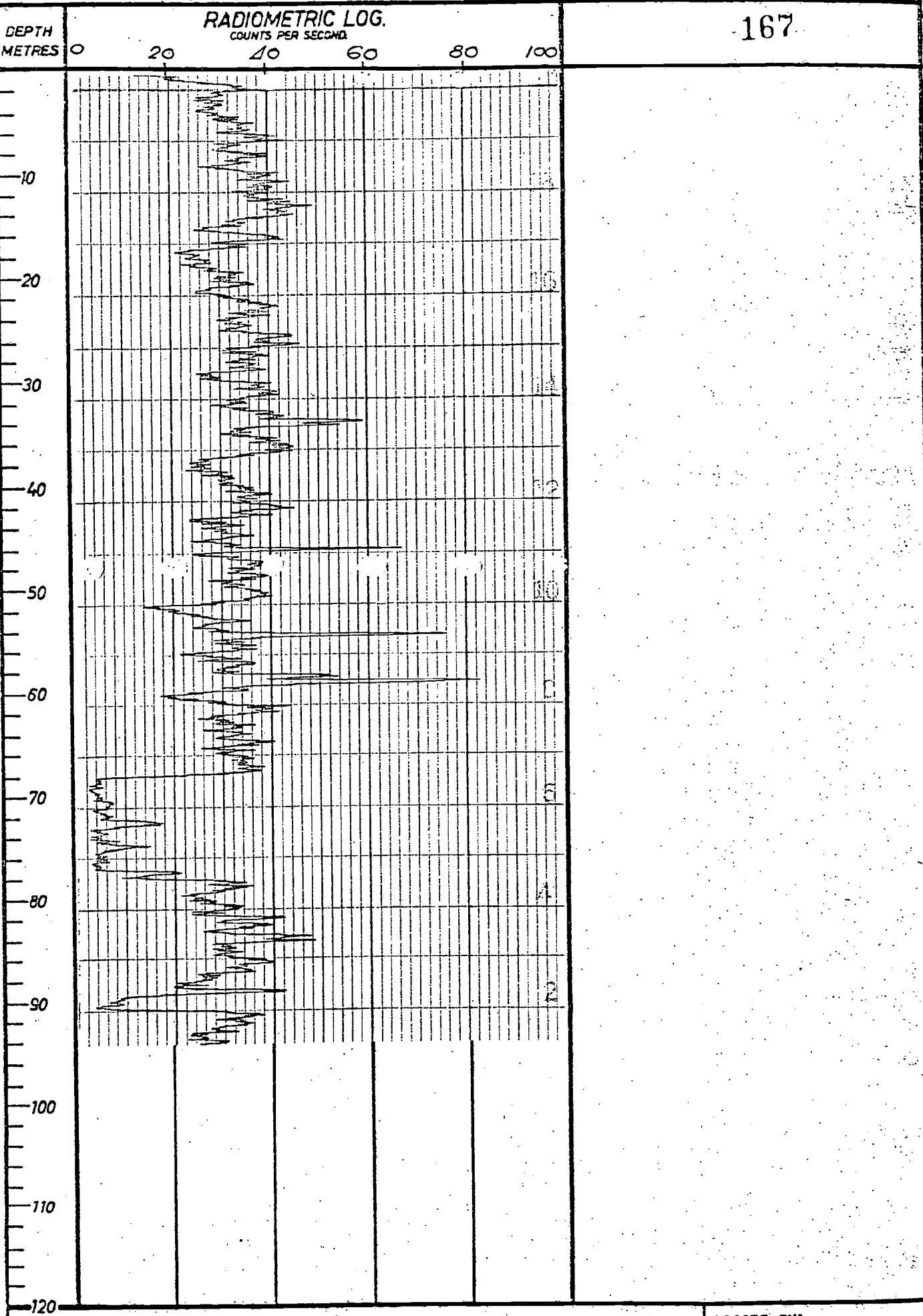
AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° PTM-64.

PROSPECT: Star.

PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



DISCRIMINATOR SETTING: 0 • i.e. TOTAL COUNT.
TIME CONSTANT: M. i.e. 2secs RANGE SETTING: 100. C/SEC. FULL SCALE.
SCALE SETTING: 500 LOGGING SPEED: 2 METRES PER MIN.

LOGGED BY:
DATE: June '77.

DRG N° AS 4431

PROJECT: *Trinity EL 274*

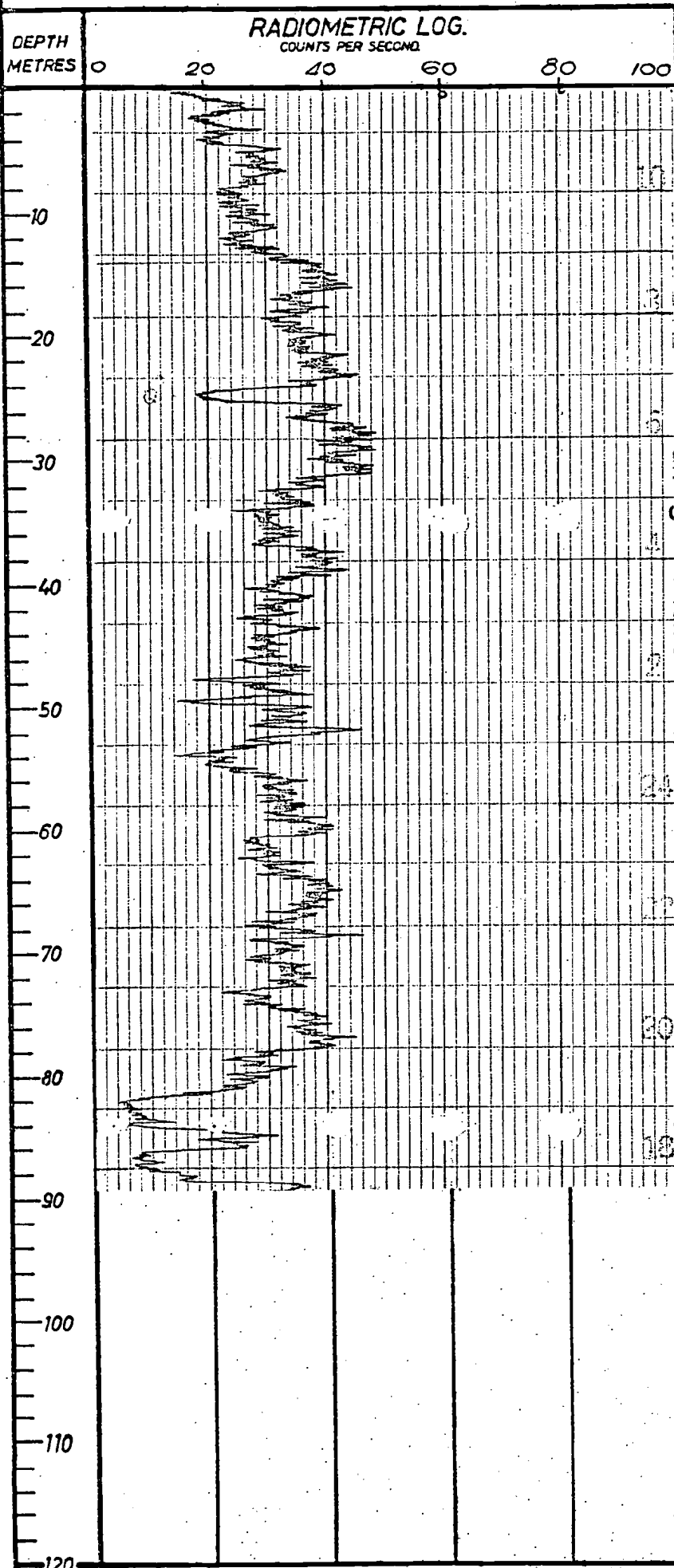
AUSTRALIAN SELECTION (PTY) LTD.

HOLE N° *PTM-66*

PROSPECT: *Star*

PERCUSSION DRILL HOLE.
ELECTRIC LOGS.

FOR LOCATION AND GEOLOGY
REFER TO GEOLOGICAL LOG.



168

DISCRIMINATOR SETTING: 0 i.e. TOTAL COUNT.

TIME CONSTANT: *M* i.e. 2 secs. RANGE SETTING: 100 C/SEC. FULL SCALE.

LOGGED BY:
DATE: *June 177*

DOC NO *AC 620*

APPENDIX II

APPENDIX 2

Sample No.	Metres	Hg	As	Se	Te	F	Ba (200)	Be (1)	Co (5)	Cr (20)	La (100)	Mo (3)	Sc (3)	Ni (5)	Sr (50)	Ti (100)	V (10)	Y (10)	Zr (10)	Bi (1)	In (10)	Sb (30)	Sn (1)	P (100)	
PTM - 30																									
B 348879	38-40	0.11	4	<1	<1	520	800	1	30	80	X	X	5	70	50	1,000	80	20	80	X	X	X	X	100	
80	40-42	0.14	<2	2	<1	350	2000	1	10	70	100	X	5	50	50	700	70	30	70	3	X	X	X	100	
81	42-44	0.18	2	4	<1	380	2000	2	10	80	X	X	5	50	50	800	70	30	80	3	X	X	X	200	
82	44-46	0.10	<2	2	<1	540	5000	1	10	80	X	X	5	50	50	700	70	20	80	10	X	X	X	100	
83	46-48	0.20	<2	4	<1	4400	3000	3	30	100	X	X	15	80	100	1,500	100	50	100	1	X	X	X	100	
84	48-50	0.18	<2	2	<1	2900	5000	1	30	100	X	X	15	80	50	1,500	100	50	100	1	X	X	X	100	
PTM - 51																									
B 830277	52-54	0.14	4	<1	<1	630	700	3	100	100	200	X	30	80	100	3000	150	80	200	X	X	X	1	200	
78	54-56	0.14	4	1	<1	760	700	3	150	150	200	X	30	100	50	3000	100	80	200	2	X	X	1	100	
79	56-58	0.14	4	1	<1	950	800	2	150	150	200	X	30	100	50	3000	200	80	200	2	X	X	1	X	
80	58-60	0.10	5	1	<1	850	700	2	80	100	100	X	30	100	50	3000	200	80	200	1	X	X	1	100	
81	60-62	<0.02	4	1	<1	850	200	3	80	80	X	X	15	80	100	2000	100	50	100	1	X	X	1	100	
GOSSANS																									
B 534247	Gossan	<0.02	30	13	1	560	X	X	70	20	X	10	X	50	X	200	70	X	50	X	X	X	1	X	
48	Gossan	0.74	9	4	2	20	X	X	150	20	X	10	X	150	X	100	50	X	100	10	X	X	X	X	
49	Gossan	<0.02	36	58	<1	65	X	X	250	20	X	10	X	100	X	100	100	X	200	80	X	X	3	X	

ANALYSIS: Results in ppm unless otherwise stated. Detection limits in brackets
 X: Not detected at limits quoted

GEOCHEMICAL ANALYSIS SHEET

171 131054

Box No 36713

Analyst Z.V.Q. Date 21/3/77

Analytical Method / 9.2.10 HCL :-

→ 20 ml 2.1 HF → 2.5 ml 10% HCl

. COORDS

TYPE 11/10/11 SAMPLER 11/1 DATE SAMPLED 11/1/11

FQR Al, Cu, Zn, Pb, Ag, Hg As, Cd, Cr, Ni, Mn, Fe, Co, Ni, Cu, Zn, Pb, Ag, Hg

SAMPLE NUMBER	DEPTH FROM (LINE DIST.) AUGER	DEPTH TO SH	Ni	Cu	Zn	Pb	Ag	Mn	Fe
B53424T		<50	30	5290	60	40	<3	75	361000
Gossan	SAMPLE FROM	OUTCROP.	AT	MUTAGROO.	MINE				
B53434S		<50	100	1390	50	30	<3	50	248000
Gossan	FROM	MAIN SHATT		MUTAGROO	MINE				
B534249		<50	90	11500	90	30	<3	230	171000
Gossan	FROM	TRINITY		MINE					

GEOCHEMICAL LABORATORY SHEET

AREA LOCATION SA TRINITY EL274 GRID No. PTMD-1

NE No. 2175 356.5W

EAST * ANALYTICAL
WEST DETAILS

MC BRIDES DAM

172
BOX No. 26825

HF DATE ANALYSED 17/6/77

ANALYST TVD/

SAMPLE TYPE PERC SAMPLED BY EA DATE SAMPLED 26-3-77

SAMPLE NUMBER	TUBE No.	Core Footage From	Core Footage To	As	Sn	Mn	P	F	Pb	Zn
K51410	5/1	0	2	15	<5	2700	200	0.10	155	3300
11	2	2	4	30	<5	2950			130	3900
12	3	4	6	40	<5	3110			380	3500
13	4	6	8	40	<5	3410			220	3000
14	5	8	10	70	<5	3720			105	1800
15	6	10	12	130	<5	2860			600	3100
16	7	12	14	15	<5	2320			340	4000
17	8	14	16	25	<5	880	500	0.10	1200	2700
18	9	16	18	40	<5	2540			355	3700
19	10	18	20	35	<5	2640			200	1100
20	11	20	22	10	<5	2250			200	1150
21	12	22	24	20	<5	1310			130	540
22	13	24	26	15	<5	750			110	560
23	14	26	28	40	<5	600			135	500
K51416	15			20	<5	2560				
24	16	28	30	25	<5	780			105	380

GEOCHEMICAL LABORATORY SHEET

173

92889

BOX No. 26825

HF DATE ANALYSED 2/8/77

ANALYST ZVD/

AREA LOCATION SA TRINITY EL278 GRID No. PTMD -1

LINE No. 2145 3565W EAST * ANALYTICAL WEST DETAILS MC BRIDES DAM

SAMPLE TYPE PFRc SAMPLED BY I.A. DATE SAMPLED 26-3-77

SAMPLE NUMBER	TUBE No.	Core Footage From	Core Footage To	As	Sn	Mn	Pi	Pb	Zn
51425	5/17	30	32	20	<5	2140		210	700
26	18	32	34	15	<5	4500		950	1400
27	19	34	36	20	<5	4700	300	375	10800
28	20	36	38	30	<5	3360		270	3300
29	21	38	40	55	<5	3900	100	1350	4000
30	22	40	42	40	<5	2550		650	1700
31	23	42	44	15	<5	2220		210	1800
32	24	44	46	70	<5	1860		195	1970
33	25	46	48	25	<5	8909		160	990
34	26	48	50	65	<5	3870		160	870
35	27	50	52	120	<5	3100		120	620
36	28	52	54	45	<5	1830		185	1230
37	29	54	56	50	<5	3580		500	2400
38	30	56	58	10	<5	1670		195	230
51431	31			15	<5	2140			
39	32	58	60	10	<5	1000	800	90	350

DEPARTMENT OF MINES-SOUTH AUSTRALIA

2894

174

WATER SAMPLE ANALYSIS ADVICE

Bore Reference . . . *PT.M 72:* . . . Analysis No. *W4401/77.*

Hundred. *-* Section . . . *-*

Sample collected by. *-* Date . . . *-*

Depth sample taken *40.00m* Name *AUST. SELECTION PTY LTD.*

Dept. Mines Results

Address

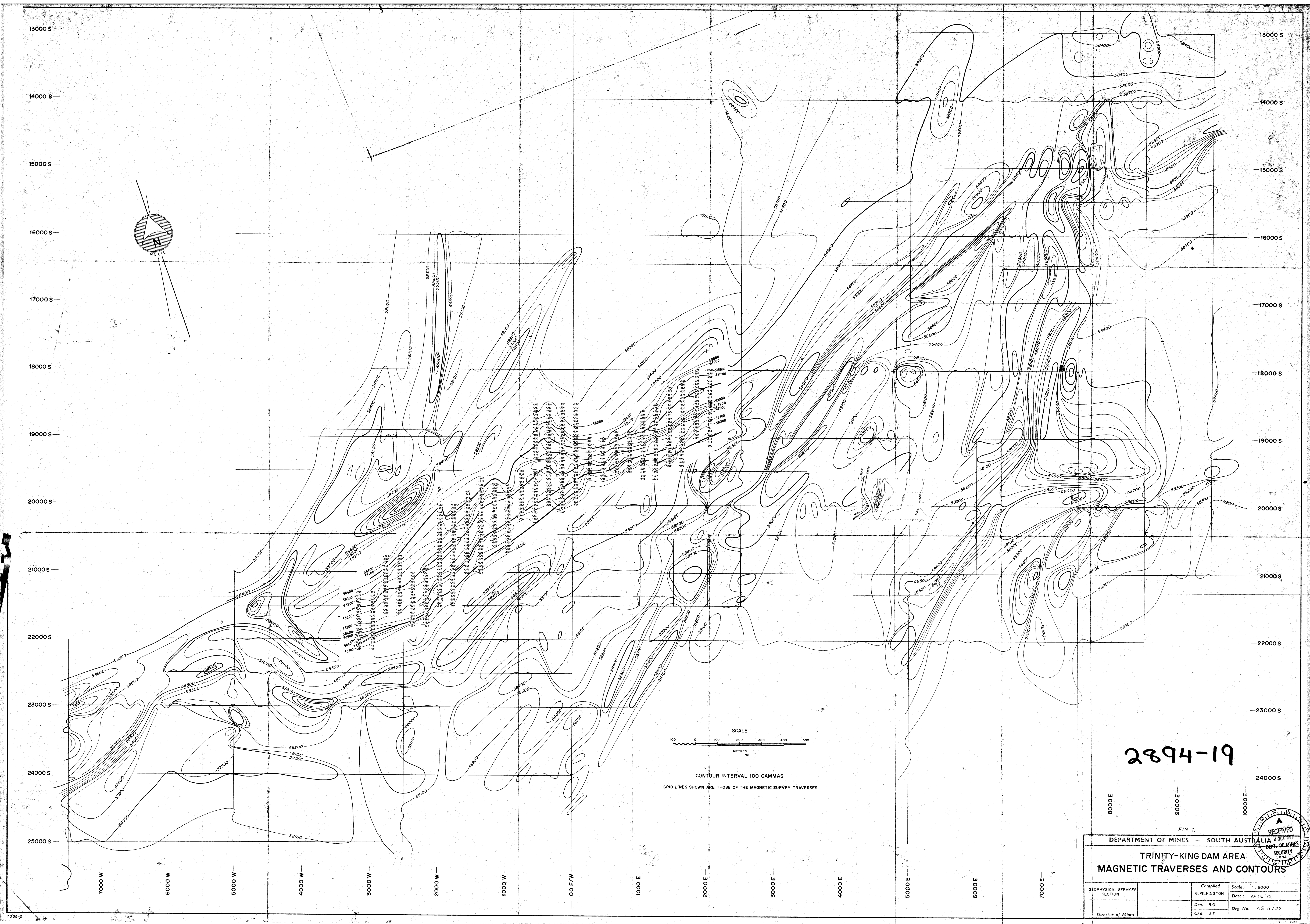
Conductivity *31000* μ S at 25°C

Salinity. . . *25000* . mg/l To AMDEL for analysis.

pH *7.1* AMDEL No.

Remarks *(EL 274 CONFIDENTIAL.)*

Unit No. Bore Folder No.



2894-19

FIG. 1.

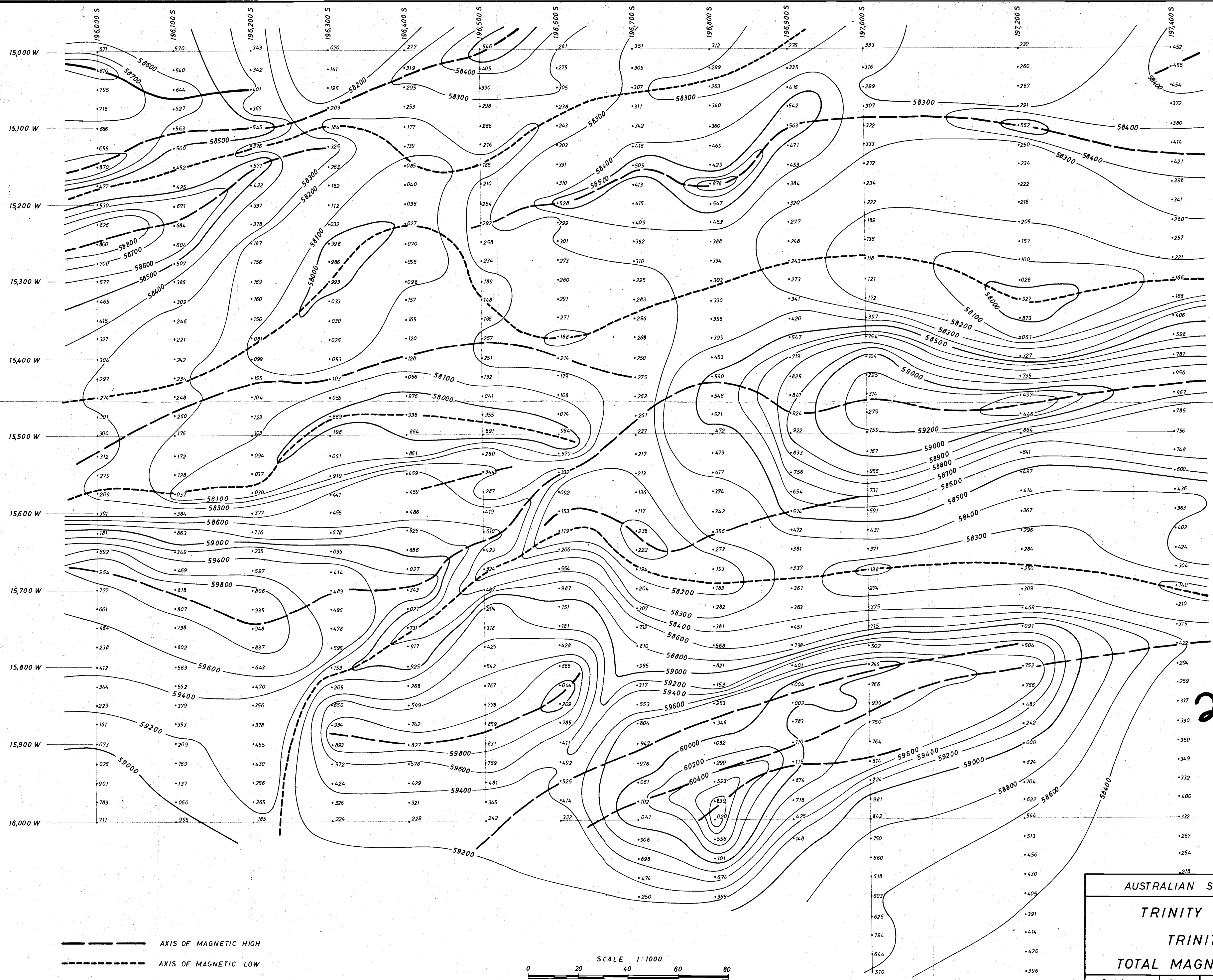
DEPARTMENT OF MINES — SOUTH AUSTRALIA

TRINITY-KING DAM AREA

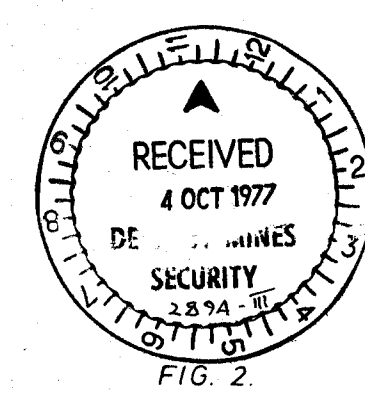
MAGNETIC TRAVERSES AND CONTOURS

GEOPHYSICAL SERVICES SECTION	Compiled G. PILKINGTON	Scale: 1:6000
	Dwn. R.G.	Date: APRIL '75
Director of Mines	Ckd. A.F.	Org. No. AS 6727

RECEIVED
DEPT. OF MINES
SECURITY
1975



2894-20



AUSTRALIAN SELECTION (PTY.) LTD.

TRINITY — E.L. 274

TRINITY MINE

TOTAL MAGNETIC INTENSITY

Revisions.	Date.	Compiled by:	J.A.O.	Date.	JUNE '77
		Drawn by:	"		"
		Traced by:	R.W.		SEPT. '77
		Checked by:			
PLAN NUMBER: AS 6725					