Open File Envelope No. 8087

EL 1257

MOUNT WEDGE

PROGRESS AND FINAL REPORTS TO LICENCE SURRENDER FOR THE PERIOD 12/10/88 TO 27/5/92

Submitted by
Stockdale Prospecting Ltd
1992

Enquiries: Customer Services
Ground Floor
101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000
Facsimile: (08) 8204 1880

PRIMARY INDUSTRIES AND RESOURCES SA

ENVELOPE 8087

TENEMENT: EL 1527, Mount Wedge

TENEMENT HOLDER: Stockdale Prospecting Ltd

CONTENTS OF VOLUME ONE

PLAN		Scale	Company Plan no.	SADME NO.	
	Locality map.	1:250 000	SEL 3539	Pg. 49	*A3*

REPORT:	**Potter, S.D., 1990.** EL 1527: Mt Wedge. Seventh quarterly report for the period ending 11 July 1990.			**8087 R 7**	
APPENDIX 1:	Magnetic intensity plots for completed anomalies. Airborne data.			Pgs 50-60	
APPENDIX 2:	Magnetic intensity plots for completed anomalies. Ground data (includes 8 coloured figures).			Pgs 61-70	
				Pgs 71-80	
PLANS		**Scale**	**Company Plan no.**		
Map 1	Locality map.	1:250 000	SEL 3539	Pg. 81	*A3*
Map 2	Total field magnetics.	1:100 000	SEL G1569	8087-1	*A1*
Map 3	Airborne geophysical interpretation.	1:250 000	SEL 3804	Pg. 82	*A3*

REPORT:	**Potter, S.D., 1990.** EL 1527: Mt Wedge. Eighth quarterly report for the period ending 11 October 1990.			**8087 R 8**	
APPENDIX 1:	Magnetic intensity plots for completed anomalies. Airborne data.			Pgs 83-90	
APPENDIX 2:	Magnetic intensity plots for completed anomalies. Ground data (includes 3 coloured figures).			Pgs 91-94	
				Pgs 95-98	
APPENDIX 3:	Drill logs for MW 18 and MW 19.			Pgs 99-107	
PLANS		**Scale**	**Company Plan no.**		
Map 1	Locality map.	1:250 000	SEL 3539	Pg. 105	*A3*
Map 2	Airborne geophysical interpretation.	1:250 000	SEL 3804	Pg. 106	*A3*
Map 3	Current sampling.	1:100 000	SEL 3971	8087-2	*A1*

REPORT:	**Potter, S.D., 1991.** EL 1527: Mt Wedge. Ninth quarterly report for the period ending 11 January 1991.			**8087 R 9** Pgs 108-115	
PLANS		**Scale**	**Company Plan no.**		
Map 1	Locality map.	1:250 000	SEL 3539	Pg. 115	*A3*
Map 2	Current sampling.	1:100 000	SEL 3971	8087-2	*A1*

CONTENTS OF VOLUME TWO

REPORT:	**Mitchell, M.S., 1991.** EL 1527: Mt Wedge. Tenth quarterly report for the period ending 11 April 1991.			**8087 R 10**	
APPENDIX 1:	1990 geochemical results.			Pgs 116-122	
APPENDIX 2:	1991 drilling logs.			Pgs 123-125	
PLANS		**Scale**	**Company Plan no.**	Pgs 126-164	
Map 1	Locality map.	1:250 000	SEL 3539	Pg. 165	*A3*
Map 2	Airborne geophysical interpretation.	1:250 000	SEL 3804	Pg. 166	*A3*
Map 3	Current sampling.	1:100 000	SEL 3971	8087-2	*A1*

				SADME NO.	
REPORT:	**Mitchell, M.S., 1991.** EL 1527: Mt Wedge. Eleventh quarterly report for the period ending 11 July 1991.			**8087 R 11** Pgs 167-173	
APPENDIX 1:	1991 Geochemical results.			Pgs 174-177	
APPENDIX 2:	1991 Drill core petrographic description.			Pgs 178-181	
PLANS		**Scale**	**Company Plan no.**		
Map 1	Locality map.	1:250 000	SEL 3539	Pg. 182	*A3*
Map 2	Sample locations.	1:100 000		8087-3	*A1*
Map 3	Airborne geophysical interpretation.	1:100 000	SEL 3804	8087-4	*A1*
REPORT:	**Mitchell, M.S., 1991.** EL 1527: Mt Wedge. Twelfth quarterly report for the period ending 11 October 1991.			**8087 R 12** Pgs 183-191	
APPENDIX 1:	1991 geochemical results.			Pgs 192-202	
PLANS		**Scale**	**Company Plan no.**		
Map 1	Locality map.	1:250 000	SEL 3539	Pg. 203	*A3*
Map 2	Airborne geophysical interpretation.	1:100 000	SEL 3804	8087-4	*A1*
REPORT:	**Mitchell, M.S., 1991.** EL 1527: Mt Wedge. Thirteenth quarterly report for the period ending 11 January 1992.			**8087 R 13** Pgs 204-209	
APPENDIX 1:	Anomaly MW 13 geochemical results. (Analabs).			Pgs 210-217	
PLANS		**Scale**	**Company Plan no.**		
Map 1	Locality map.	1:250 000	SEL 3539	Pg. 218	*A3*
Map 2	Airborne geophysical interpretation.	1:250 000	SEL 3804	Pg. 219	*A3*
REPORT:	**Finlay, S.C., 1992.** EL 1527: Mt Wedge. Fourteenth quarterly report for the period ending 11 April 1992 (includes 4 coloured figures).			**8087 R 14** Pgs 220-233	
PLANS		**Scale**	**Company Plan no.**		
Map 1	Locality map.	1:250 000	SEL 3539	Pg. 232	*A3*
Map 2	Airborne geophysical interpretation.	1:250 000	SEL 3804	Pg. 233	*A3*
REPORT:	**Robison, H.R., 1992.** EL 1527: Mt Wedge. Final report.			**8087 R 15** Pgs 234-242	
APPENDIX 1:	Magnetic contours, airborne data. MW02, 06, 07, 08, 09, 11, 14, 17 (includes 9 coloured figures).			Pgs 243-252	
APPENDIX 2:	Magnetic contours, ground data. MW11, 17 (includes 2 cloured figures).			Pgs 253-255	
PLANS		**Scale**	**Company Plan no.**		
Map 1	Locality map.	1:250 000	SEL 3539	Pg. 256	*A3*
Map 2	Current sampling.	1:100 000		8087-5	*A1*
Map 3	Airborne geophysical interpretation.	1:100 000	SEL 3804	8087-4	*A1*
LETTER:	**Robison, H.R., 1992.** EL's 1518, 1527, 1672, 1694.			Pgs 257-259	

END OF CONTENTS

SEPARATELY HELD DATA

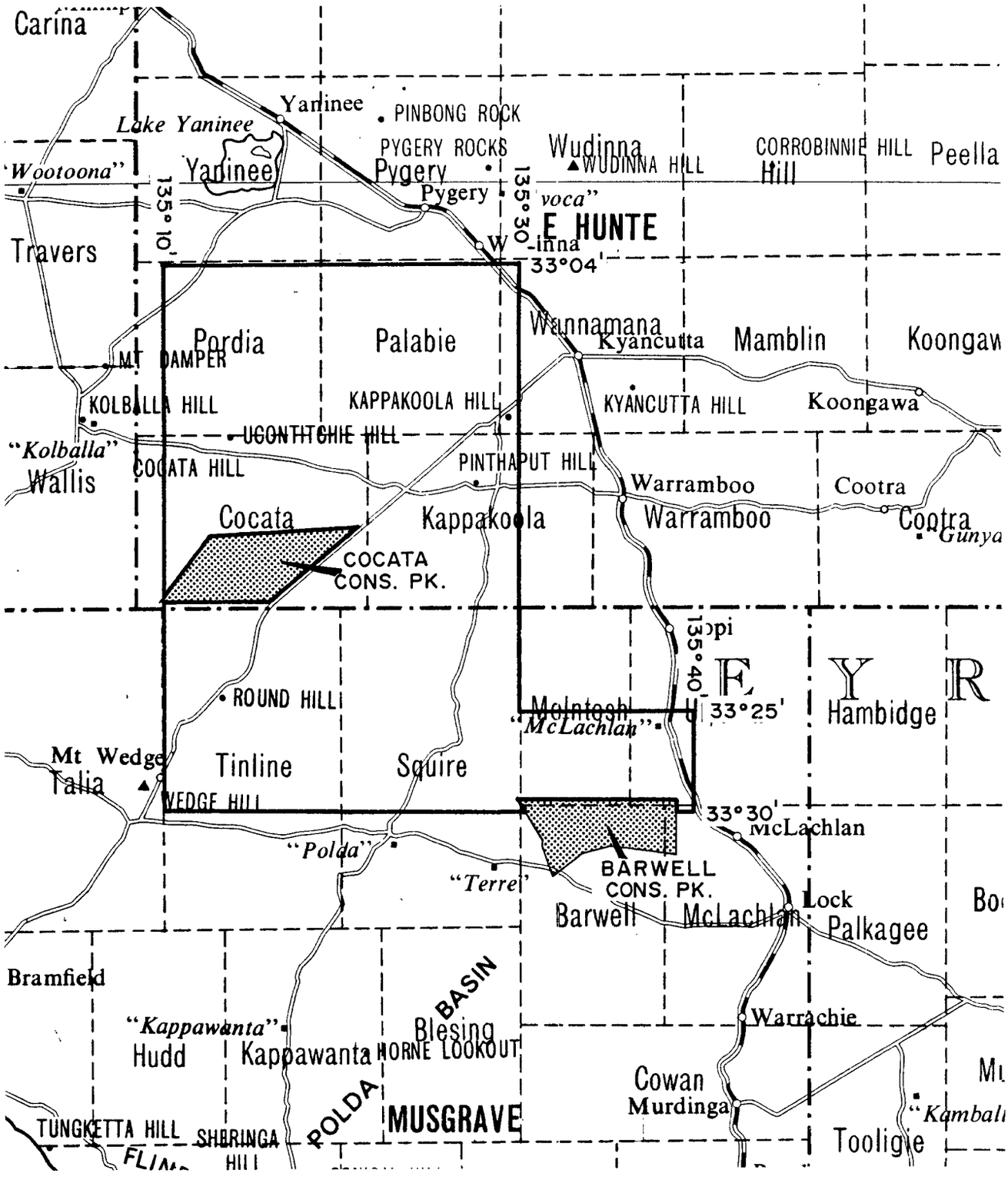
DATA TAPES (held by Information Services Branch):

Survey no. 88SA05. Airborne magnetic and radiometric survey.

DRILL SAMPLES (held by SADME Core Library):

For up to date information on available drillhole samples, contact the Supervisor, SADME Core Library and quote the Exploration Licence and drillhole number/s you wish to query.

SCHEDULE A



SCALE 1:500,000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

SURRENDERED

APPLICANT: STOCKDALE PROSPECTING LIMITED

DM: 151/88

AREA: 1558 square kilometres (approx.)

1:250000 PLANS: KIMBA

LOCALITY: EYRE PENINSULA – 20 KM WEST of KYANCUTTA

DATE GRANTED: 12.10.88

DATE EXPIRED: 11.10.89 90 91 92

EL No: 1527

000003

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE
FIRST QUARTERLY REPORT FOR THE
PERIOD ENDING 11 JANUARY 1989

Edited: A C FRENCH

Author/s: P D WILSON

Approved: H R ROBISON

Date: JANUARY 1989

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 6 Plan Nos.: 2 Table Nos.: 2 Appendices: – Plates: –

Keywords: AIRBORNE MAGNETICS

Abstract: Exploration Licence 1527 covering the Mt Wedge area on north western Eyre peninsula was granted to Stockdale Prospecting on 12 October 1988 for a term of one year. An airborne geophysical survey over the area has been flown but no results are as yet available.

Copy to: SADME, IC, WHYALLA

Ref: RDW145

Circulate to:

R 1

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

FIRST QUARTERLY REPORT FOR THE PERIOD ENDING 11 JANUARY 1989

CONTENTS

FIGURES

TABLES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

FIRST QUARTERLY REPORT TO 11 JANUARY 1989

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula in South Australia about 115 kilometres north west of Cleve (Figure 1). The licence covers 1558 square kilometres on the Kimba 1:250 000 sheet (SH53-7).

This report covers diamond exploration carried out by Stockdale Prospecting Limited during the quarter ending 11 January 1989. During this time an airborne geophysical survey over the area was completed. No results have been received by Stockdale to this date.

2 LEGAL

Exploration Licence No 1527 was granted to Stockdale Prospecting Limited on 12 October 1988 for a term of one year.

3 PHYSIOGRAPHY

3.1 Physiographic Divisions (from Twidale and Campbell 1985)

The major physiographic units identified in the area of EL 1527 are shown on Figure 2. These are :

i Tuckey Plain - covers the northern half of the Licence area. It is a siliceous sand ridge plain identified by its longitudinal dune forms.

ii Tooligie and McLachlan Dune Fields - occupies an east-west strip in the central part of the licence area south of the Tuckey Plain. They are similar to the Tuckey Plain but are characterised by parabolic or U-shaped dunes rather than longitudinal.

iii Calcareous sand dunes - old coastal foredunes of the Talia Hills and Chandada Plains extend into the area of the exploration licence from the southwest.

iv Granitic Plains - a small area of residual granitic soils developed around Uncontichie Hill on the north western edge of the exploration licence.

3.2 Rainfall

Rainfall over the licence area averages 300 to 350 mm per year. About 14% of this total falls in the summer months, while about 50% falls in the winter (Schwerdtfeger, 1985).

3.3 Vegetation

The major part of the original native vegetation of the area has been cleared for grazing and cereal crops but stands of natural mallee woodland have been preserved in the Cocata and Barwell Conservation Parks(Figure 1).

3.4 Access

The licence area is serviced by a network of sealed and gravel roads. Farm tracks allow easy access within most properties.

4 GEOLOGY
(Parker et.al 1985)

4.1 General

The Mt Hope area lies within the Gawler Block, a stable craton with crystalline basement rocks which range in age from 2700 million years to 900 million years. Stabilisation of the craton took place after the Kimban Orogeny at about 1450 million years.

The Precambrian stratigraphy of the Eyre Peninsula is shown in Table 1 (from Parker et al 1985).

4.2 Archaean

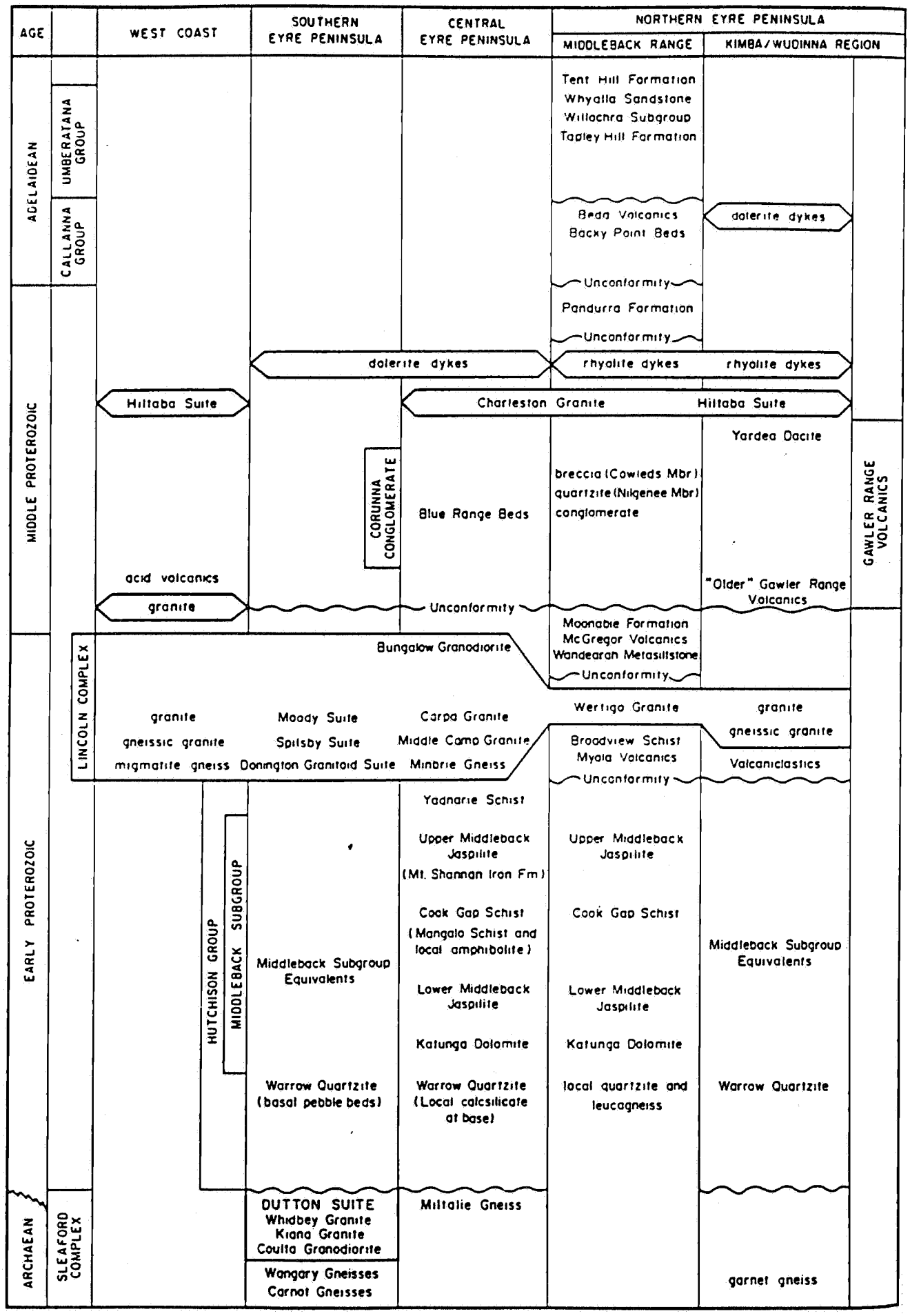
Although not represented in outcrop drill hole data indicates that the southern area of the exploration licence is underlain by ancient Archaean to very Early Proterozoic rocks of the Sleaford Complex.

On the southern coastline of the Eyre Peninsula where the Sleaford Complex is well exposed it is composed of two distinct elements :

i Carnot Gneisses - a highly metamorphosed supra-crustal sequence of dominantly thinly layered, garnetiferous, quartz and feldspathic gneisses often intimately intercalated with thin layers of leucogneiss, biotite-garnet gneiss, hypersthene bearing felsic gneiss and basic granulite.

ii Dutton Suite - a slightly younger, higher crustal, level suite of granitoids.

Table 1. PRECAMBRIAN STRATIGRAPHY OF EYRE PENINSULA. (from Parker et.al. 1985)



4.3 Proterozoic

To the southwest of the exploration licence a series of unmetamorphosed pebbly sandstones, about 150m thick are exposed in a gently (<5°) west dipping sequence. They form Mt Wedge from which the exploration licence takes its name. These are the Blue Range Beds, a Late Proterozoic unit of unmetamorphosed rudites and arenites that unconformably overlie the Archaean Sleaford Complex.

Mt Wedge is one of a number of remnants of an older separate east west trending basin called the Ililedoo Basin which was a precursor to the Polda Basin (Flint et al 1981).

Both outcrop and drillhole information indicate that the northern half of the exploration licence is underlain by granitoids of the Hiltaba Suite. These are a group of Middle Proterozoic, post-tectonic granitoids which are extensively developed throughout northern Eyre Peninsula and form some of the very prominent landforms within the region eg Uncontichie Hill. The granites represent high-level intrusives derived essentially from "S"-type magma sources in the lower crust. Parker et al (1985) suggest that the Hiltaba Suite post dates the deposition of the Blue Range Beds and the extrusion of the Gawler Range Volcanics.

4.4 Permian-Jurassic

The Polda Basin lies immediately to the south of EL 1527. It is a narrow, east-west graben less than 25 km wide but extending for 350 km from Rudall in the east to about 220 km offshore from Elliston. It is an intracratonic graben flanked by Archaean - Middle Proterozoic rocks and is completely covered by Tertiary and Quaternary sediments.

Both Permian and Jurassic sedimentary rocks are preserved within the Graben. The Permian Coolardie Formation consists of diamictite (brown, grey or green) and mudstone. The formation was deposited in a glacial environment. Overlying the Coolardie Formation is the Jurassic Polda Formation. This was deposited in fluvial-swampy conditions and consists of dark-grey, fine to coarse-grained clayey sand, dark grey claystone and lignite.

4.5 Tertiary

Overlying the Polda Formation within the Polda Trough are Middle-Late Eocene fluviatile sediments of the Poelpena Formation. This formation appears to be restricted to the Polda Basin itself and marginal areas.

Within the area of EL 1527 Binks and Hooper (1984) define the Lower Tertiary Yaninee Palaeochannel. The Palaeochannel is incised into the underlying Hiltaba Granite and appears to have flowed from the north into the area of EL 1527 and thence toward the Polda Basin. The channel is filled with Eocene to Pliocene fluvial sands and clay. However, glauconite coated sand grains and sponge spicules are common in the Eocene sands and these reflect marine or estuarine conditions of deposition. The channel achieves a maximum depth of 90 metres below surface in the north west corner of the exploration licence.

4.6 Quaternary

Thin veneers of Quaternary sediments mask the underlying Archaean Early Proterozoic and Tertiary rocks over much of the area of the exploration licence.

The Bridgewater Formation is a Pleistocene unit of calcrete and carbonate-cemented aeolianite which occurs in the southwest corner of the licence. The aeolianite contains large dune-size cross-beds and consists of comminuted shell fragments in a micrite cement. Calcretes vary in form from intraclast breccia to nodular, massive and laminated calcrete.

Overlying the Bridgewater Formation in the remainder of the exploration licence are Pleistocene-Holocene inland longitudinal and parabolic dunes and sand spreads (Wiabuna Formation and Moornaba Sand).

5 AIRBORNE GEOPHYSICAL SURVEY

As part of the joint SADME/BMR airborne geophysical survey over the Eyre Peninsula in which Stockdale Prospecting Limited participated, the area of Exploration Licence 1527 was flown. The survey was carried out in late June 1988 by Geoterrex Pty Ltd.

The survey specifications were as follows :

Mean Terrain clearance	100m
Flight Line Spacing	500m
Flight Line Direction	E-W
Tie Line Spacing	12 km N-S
Airspeed	70m/second (125 knots)
Magnetometer Cycle Rate	0.2 seconds
Data Collected	Total field magnetic and 4 channel radiometrics.
Navigation	Syledis Radio Navigation System.

At the date of this report no data has been received by Stockdale Prospecting Limited.

6 FORWARD PROGRAMME

Follow-up of the results of the airborne geophysical survey will be carried out in two stages :

Stage 1 - geophysical anomalies of interest will be identified, located and evaluated with sampling, ground magnetics and Sirotem.

Stage 2 - those anomalies that survive the evaluation stage and are therefore potential kimberlite targets will be drilled.

7 STAFF

Staff employed in research, administration and monitoring of the progress of the geophysical survey over EL 1527 were :

Geologists 1

The project has been supported by the facilities of the Regional Office in Whyalla and the Head Office in Melbourne.

8 EXPENDITURE

Expenditure of $33 319 has been allocated as shown in Table 2.

9 REFERENCES

Binks P J, and Hooper G J, 1984 : "Uranium in Tertiary Palaeochannels 'West Coast Area' South Australia. Proceedings of the Australian Institute of Mining and Metallurgy, No 289, November/December, pp 271-275.

Flint R B, and Parker A J, 1982 "The Blue Range Beds, Central Eyre Peninsula". Quarterly Geological Notes, The Geological Society of South Australia, No 80, October 1981.

Parker A J, et al. 1985 : Geology in "Natural History of Eyre Peninsula". Edited by C R Twidale et al, Royal Society of South Australia.

South Australian Department of Mines and Energy "Kimba and 1:250 000 Geological Survey Sheets".

Schwerdtfeger P, 1985, : Climate in "Natural History of Eyre Peninsula". Edited by C R Twidale et al. Royal Society of South Australia.

Twidale C R, and Campbell E M, 1985 : The Form of the Land Surface in "Natural History of Eyre Peninsula". Edited by C R Twidale et al. Royal Society of South Australia.

P D Wilson
Project Geologist
Whyalla

H R Robison
Chief Geologist - East

TABLE 2 : EXPENDITURE REPORT FOR EL 1527 : MT WEDGE
PERIOD ENDING 31/12/88

		EL 1527
TENEMENT COSTS		3 703
CONTRACTS (GEOPHYSICS)		18 909
SPECIALIST SERVICES :		
	GEOPHYSICS	1 636
ADMINISTRATION :		
	REGIONAL OFFICE	3 048
	HEAD OFFICE	4 893
CAPITAL UTILISATION		1 130
TOTAL EXPENDITURE		$33 319

000014

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

33°10'

SAMPHIRE FLAT

COCATA HILL △

E.L. 1527

COCATA CONSERVATION PARK

33°20'

MT. WEDGE △

33°30'

BARWELL CONSERVATION PARK

WARRAMBOO

LOCK

135°40'

N

133°30'

138°

32°

33°20'

1527

CLEVE

SOUTHERN OCEAN

35°

33°30'

0 5 10 15 kms.

FIG. 1

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 **LOCALITY MAP** **EXPLORATION LICENCE 1527** **MT WEDGE**	Compiled PDW Drawn ADS Date JANUARY '89 Scale 1:250,000 Revised SEL 3539

135°20'
135°30'
33°10'
33°20'
33°30'

5ai
3
5bi
5av
5bii
6b
2ci
6a

N

EROSIONAL FORMS

2c — 2. FOLD MOUNTAIN RANGES
c) REMNANTS AND OUTLIERS OF UPLANDS
i) RANGES

3 — 3. GRANITIC PLAINS AND ISOLATED HILLS

DEPOSITIONAL FORMS

5. SILICEOUS SAND RIDGE PLAINS
a) LONGITUDINAL DUNES
i) TUCKEY PLAIN
v) LOCK PLAIN

5a

b) PARABOLIC DUNE FIELDS
i) CORROBINNIE DEPRESSION
ii) TOOLIGIE AND McLACHLAN DUNE FIELDS

5b

6. CALCAREOUS SAND DUNES
a) TALIA HILLS

6a

b) CHANDADA PLAINS

6b

0 5 10 15kms.

FIG. 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
KIMBA 153-7

EXPLORATION LICENCE 1527
MT. WEDGE
PHYSIOGRAPHIC DIVISIONS
(AFTER TWIDALE et al 1985)

Compiled	PDW
Drawn	ADS
Date	JANUARY '89
Scale	1:250,000
Revised	
	SEL 3540

000016

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

SECOND QUARTERLY REPORT TO 11 APRIL 1989

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula in South Australia about 115 kilometres north west of Cleve. The licence covers 1558 square kilometres on the Kimba 1:250 000 sheet (SH53-7).

This report covers diamond exploration carried out by Stockdale Prospecting Limited during the quarter ending 11 April 1989. An airborne geophysical survey over the area was completed and reported last quarter.

2 AIRBORNE GEOPHYSICAL SURVEY

As part of the joint SADME/BMR airborne geophysical survey over ~~the~~ Eyre Peninsula in which Stockdale Prospecting Limited participated, the area of Exploration Licence 1527 was flown. The survey was carried out in late June 1988 by Geoterrex Pty Ltd.

At the date of this report no data has been received from the South Australian Department of Mines and Energy (SADME). This data is required prior to any geophysical and geological follow-up work being carried out.

3 STAFF

Staff employed in research, administration and monitoring of the progress of the geophysical survey over EL 1527 were :

Geologists 1

The project has been supported by the facilities of the Regional Office in Whyalla and the Head Office in Melbourne.

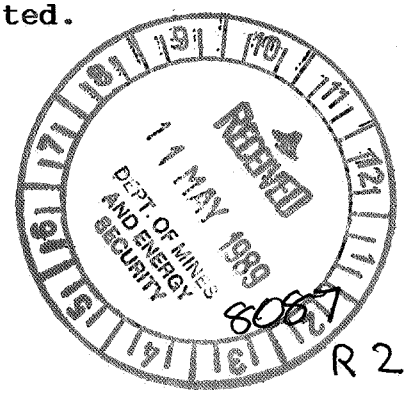
4 EXPENDITURE

The expenditure table in the previous report contains an error. A corrected expenditure report for the first Quarterly Report is attached.

No expenditure for this quarter has been allocated.

A C Honner.

for. K K Honner
Project Geologist



8067

R 2

TABLE 1 : EXPENDITURE REPORT FOR EL 1527 : MT WEDGE
PERIOD ENDING 31/12/88 (corrected)

	EL 1527
TENEMENT COSTS	3 703
CONTRACTS (GEOPHYSICS)	18 909
SPECIALIST SERVICES : GEOPHYSICS	1 636
ADMINISTRATION :	
REGIONAL OFFICE	3 049
HEAD OFFICE	4 956
CAPITAL UTILISATION	1 130
TOTAL EXPENDITURE	$33 384

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

THIRD QUARTERLY REPORT FOR THE

PERIOD ENDING 11 JULY 1989

000013

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria
60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE
THIRD QUARTERLY REPORT FOR THE
PERIOD ENDING 11 JULY 1989

Edited: A C FRENCH

Author/s: A M WEEKS

Approved: H R ROBISON

Date: JULY 1989

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.:
KIMBA SI53-7

Text Pages No.:	Plan Nos.:	Table Nos.:	Appendices:	Plates:
2	2	1	-	-

Keywords:
AIRBORNE MAGNETICS, LOAM SAMPLING

Abstract:
Exploration Licence 1527 covering the Mt Wedge area on the north western Eyre Peninsula was granted to Stockdale Prospecting Limited on 12 October 1988 for a term of one year. An airborne geophysical survey over the area has been flown, however data is not yet available. A loam sampling programme has commenced in the area.

Copy to: SADME, WHYALLA, MELBOURNE

Ref: amw1

Circulate to:

CONTENTS

MAPS

TABLES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MOUNT WEDGE

THIRD QUARTERLY REPORT TO 11 JULY 1989

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula in South Australia about 115 kilometres north west of Cleve. The licence covers 1558 square kilometres on the Kimba 1:250 000 sheet (SH53-7, Map 1).

This report covers diamond exploration carried out by Stockdale Prospecting Limited during the quarter ending 11 July 1989.

2 AIRBORNE GEOPHYSICAL SURVEY

As part of the joint SADME/BMR airborne geophysical survey over ~~the~~ Eyre Peninsula in which Stockdale Prospecting Limited participated, the area of Exploration Licence 1527 was flown. The survey was carried out in late June 1988 by Geoterrex Pty Ltd.

Data has not yet been received and therefore the processing and interpretation of data has not been possible. This seriously affects the field programme as most of the area is under crops and cannot be accessed from June to December. This means field work cannot now commence until 1990.

3 SOIL SAMPLING

A soil sampling programme on Exploration Licence No 1527 was part of a loam sampling grid surveyed as follow-up to kimberlitic indicators recovered from reconnaissance sampling in an adjacent licence. The sampling was located in the south eastern corner of the licenced area approximately 12 kilometres northwest of Lock. A total of 14 samples were taken. All samples were loam material collected on surface and unscreened. The approximate size of each sample was 260 kilograms. Sample locations are shown on Map 2.

Samples are awaiting treatment.

4 STAFF

Staff employed in research, administration and monitoring of the progress of the geophysical survey over EL 1527 were :

Geophysicist 1

Staff employed in research, administration and field work for the soil sampling on EL 1527 were :

Geologists	2
Field Assistants	3

The project has been supported by the facilities of the Regional Office in Whyalla and the Head Office in Melbourne.

5 EXPENDITURE

Expenditure of $2 959 has been allocated as shown in Table 1.

for A M Weeks
Geologist
Whyalla

H R Robison
Chief Geologist-South

TABLE 1 : EXPENDITURE REPORT FOR EL 1527 : MT WEDGE

PERIOD ENDING 30 JUNE 1989

	EL 1527 $
OPERATIONAL STAFF COSTS	207
GENERAL OPERATIONAL EXPENSES	768
SPECIALIST SERVICES : GEOPHYSICS	930
: DRAFTING	498
ADMINISTRATION : REGIONAL OFFICE	146
: HEAD OFFICE	304
CAPITAL UTILISATION	106
TOTAL THIS PERIOD	2 959
TOTAL PREVIOUSLY REPORTED	33 384
TOTAL EXPENDITURE TO DATE	$ 36 343

000024

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

33°10'

SAMPHIRE FLAT

COCATA HILL △

E.L. 1527

COCATA CONSERVATION PARK

WARRAMBOO

N

33°20'

MT. WEDGE △

33°30'

BARWELL CONSERVATION PARK

LOCK

135°40'

133°30'

138°

32°

35°

CLEVE

1527

SOUTHERN OCEAN

LOAM SAMPLING PROGRAMME

0 5 10 15kms.

MAP 1

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

KIMBA 153-7

LOCALITY MAP
EXPLORATION LICENCE 1527
MT WEDGE

Compiled	PDW
Drawn	ADS
Date	JANUARY '89
Scale	1:250,000
Revised	
SEL	3539

000025

E.L. 1527

X4962 X4961 X4960 X4946

X4964 X4963 X4958 X4959

X4957 X4956 X4955

X4974 X4973 X4972

E.L. 1516

TN

33°30

BARWELL CONSERVATION PARK

Glendinga

TOD HIGHWAY

Royston Park

1000m 0 1 2km

Glengaraff

Everyr Downs

Four Winds

Palkagee Glen

33°34

138°30'

135°40'

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
153-7 KIMBA / KOPI 6031-3
EL 1527 MT WEDGE

NORTH LOCK
LOAM GRID SAMPLING

Compiled	A.W.
Drawn	BAN
Date	AUG. '89
Scale	1:50000
Revised	
	SEL 3652

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

FOURTH QUARTERLY REPORT FOR THE

PERIOD ENDING 11 OCTOBER 1989

000027

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE FOURTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 OCTOBER 1989

Edited: A C FRENCH

Author/s: A C FRENCH

Approved: H R ROBISON

Date: JANUARY 1990

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 3 Plan Nos.: 2 Table Nos.: 1 Appendices: – Plates: –

Keywords: AIRBORNE MAGNETICS, LOAM SAMPLING

Abstract: Exploration Licence 1527 covering the Mt Wedge area on the north western Eyre Peninsula was granted to Stockdale Prospecting Limited on 12 October 1988 for a term of one year. An airborne geophysical survey over the area has been flown, and data is presently being processed and interpreted. Results from a loam sampling programme are still awaited. A remote sensing study was also carried out.

Copy to: SADME, WHYALLA, MELBOURNE Ref: ACF501

Circulate to:

CONTENTS

MAPS

TABLES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 MT WEDGE

FOURTH QUARTERLY REPORT TO 11 OCTOBER 1989

1 INTRODUCTION

Exploration Licence No 1527 is located on ~~the~~ north western Eyre Peninsula in South Australia about 115 kilometres north west of Cleve. The licence covers 1558 square kilometres on the Kimba 1:250 000 sheet (SH53-7, Map 1).

This report covers diamond exploration carried out by Stockdale Prospecting Limited during the quarter ending 11 October 1989.

2 AIRBORNE GEOPHYSICAL SURVEY

As part of the joint SADME/BMR airborne geophysical survey over ~~the~~ Eyre Peninsula in which Stockdale Prospecting Limited participated, the area of Exploration Licence 1527 was flown. The survey was carried out in late June 1988 by Geoterrex Pty Ltd.

Data has been received and the processing and interpretation of the data is now in progress.

3 SOIL SAMPLING

Samples reported last quarter are still awaiting treatment in Whyalla.

4 REMOTE SENSING

A regional study of the Eyre Peninsula including EL 1527 was carried out. Principally a study of the Landsat TM Imagery was completed, however intense cultivation and extensive seif dunefields made interpretation of the processed imagery difficult.

To assist with the interpretation a field visit was made to the area, to gain information on landform, lithology and calcrete distribution. Road traverses were made across the area and the outcrops of calcrete and laterite profiles were visited.

This field work confirmed the dearth of outcrop in the area. It also indicated that the thickness of the calcrete is quite variable from metres to tens of metres and that it is underlain in some areas by lateritically weathered basement and others by fresh basement. In the areas of sand underlain by calcrete it was observed that it weathers into a buff soil and the development of soil is not uniform with extensive areas of near calcrete pavement in some regions. It was also noted that dense bush appears to be more developed on the calcrete areas where it is overlain by a thin veneer of sand (<.5m) but it is possible this is a cultural effect, stripping of the bush may result in the removal of the sand by erosion. Generally the calcrete areas are not cultivated but are used for pasture. Where thicker soils are developed on calcrete the soil is distinctly red and therefore iron rich.

4.1 Interpretation

The TM imagery has permitted the dividing of the area into a number of 'regolith' units and very little lithological discrimination or identification is possible from the TM imagery alone.

Plains - In west and north of Peninsula. Undulating but poorly drained and intensely cultivated.

Seif Dune Fields - Extensive areas of dunes which cross the Peninsula, trending NW-SE. Generally low dunes which are intensely cultivated throughout.

Calcrete - Main exposure is in the west of the Peninsula though it may extend further east than the imagery indicates below the sief dune field. There are two distinct expressions of the calcrete in the imagery.

* - iron-rich
* - 'clay rich'

Field examination shows that calcrete does contain some iron oxides and soil derived from it is generally red to buff indicating moderate iron oxide content. It appears that where the bush has not been stripped from the calcrete is where the 'clay' response is detected. Field examination showed in these areas a veneer of sand is present on the calcrete (see above). Hence the difference in response may be cultural rather than lithological. This may be confirmed by the fact that nature reserves in the dunefields also have a similar response to calcrete in the regolith image.

Palaeo - drainage - Along the western side of the peninsula are distinct palaeodrainage systems all of which drain from the NE-SW and are of a similar length. Linking therir headwaters may define an approximate palaeodivide.

From the regolith imagery it is possible to map general boundaries between more 'clay' rich soils and iron-rich soils. This may define boundaries between windblown and residual soils being derived from lateritic material.

Apart from the calcrete areas it is almost impossible to map structure due to the cultural and dune effects on the imagery.

This is a difficult area to gain useful geological information from TM imagery due to the combined effect of dune development and agriculture.

5 STAFF

Staff employed in research, administration and regional studies on EL 1527 were :

Geologist	1

The project has been supported by the facilities of the Regional Office in Whyalla and the Head Office in Melbourne.

6 EXPENDITURE

Expenditure of $2 624 has been allocated as shown in Table 1.

A C French
District Geologist
Whyalla

H R Robison
Chief Geologist-South

Table 1 : Expenditure Report For EL 1527 : Mt Wedge
Period Ending 30 September 1989

000032

	EL 1527 $
OPERATIONAL STAFF COSTS	849
GENERAL OPERATIONAL EXPENSES	300
SPECIALIST SERVICES : GEOPHYSICS	673
: DRAFTING	214
ADMINISTRATION : REGIONAL OFFICE	175
: HEAD OFFICE	261
CAPITAL UTILISATION	127
TOTAL THIS PERIOD	$ 2 624
TOTAL PREVIOUSLY REPORTED	$ 36 343
TOTAL EXPENDITURE TO DATE	$ 38 967

000033

N

EL 1527

SEIF DUNE FIELD

NATURAL BUSH VEGETATION
ON CALCRETE

IRON RICH SOIL
OVER CALCRETE

HAMBIDGE
CONSERVATION
PARK

CALCRETE

NATURAL BUSH VEGETATION
ON CALCRETE

LEGEND

- ROAD
- LAKE
- PALEO DRAINAGE
- CLAY / IRON — IRON/CLAY SOIL BOUNDARY
- FAULT/FRACTURE
- REGOLITH/TOPOGRAPHICAL CONTACTS
- ANOMALOUS CIRCULAR FEATURE

0 10km

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
KIMBA 153-7
EL 1527 - MT. WEDGE

LANDSAT TM INTERPRETATION

Compiled	ACF
Drawn	HMR
Date	2/90
Scale	1:250000
Revised	
SEL	3769b

000034

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

33°10'

SAMPHIRE FLAT

COCATA HILL

E.L. 1527

WARRAMBOO

N

COCATA CONSERVATION PARK

33°20'

MT. WEDGE

33°30'

BARWELL CONSERVATION PARK

LOCK

135°20'

135°40'

133°30'

138°

32°

CLEVE

1527

SOUTHERN OCEAN

35°

LOAM SAMPLING PROGRAMME

0 5 10 15kms.

MAP 1

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

KIMBA 153-7

LOCALITY MAP
EXPLORATION LICENCE 1527
MT WEDGE

Compiled	PDW
Drawn	ADS
Date	JANUARY '89
Scale	1:250,000
Revised	
SEL	3539

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

FIFTH QUARTERLY REPORT FOR THE PERIOD

ENDING 11 JANUARY 1990

000036

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria
60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE FIFTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 JANUARY 1990

Edited: A C FRENCH

Author/s: S D POTTER

Approved: H R ROBISON

Date: MARCH 1990

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 2 Plan Nos.: - Table Nos.: 1 Appendices: - Plates: -

Keywords: AIRBORNE MAGNETICS, LOAM SAMPLING

Abstract: Exploration Licence 1527 covering the Mt Wedge area on the north western Eyre Peninsula was granted to Stockdale Prospecting Limited on 12 October 1988 for a term of one year. An airborne geophysical survey over the area has been flown, and data is presently being processed and interpreted. Results from the loam sampling programme referred to in the Third Quarterly Report have been received.

Copy to: SADME, WHYALLA, IC

Ref: SDP29

Circulate to:

CONTENTS

MAPS

TABLES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

FIFTH QUARTERLY REPORT TO 11 JANUARY 1990

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula in South Australia about 115 kilometres on the Kimba 1:250 000 sheet (SH-7, Map 1).

This report covers diamond exploration carried out by Stockdale Prospecting Limited during the quarter ending 11 January 1990.

2 RESULTS

Results for the samples referred to in the Third Quarterly Report have been received (Map 2).

Sample X4964 contained 1 kimberlitic garnet, the rest proved negative with respect to kimberlitic indicators.

3 AIRBORNE GEOPHYSICAL SURVEY

As part of the joint SADME/BMR airborne geophysical survey over the Eyre Peninsula in which Stockdale Prospecting Limited participated, the area of Exploration Licence 1527 was flown. The survey was carried out in late June 1988 by Geoterrex Pty Ltd.

Data has been received and the processing and interpretation of the data is now in progress.

4 FORWARD WORK PROGRAMME

It is envisaged that the interpretation of the aeromagnetic data will be complete by the next quarter. Consequently, preparations for follow up of this data will begin.

5 STAFF

No field staff were employed for this project during the quarter.

The project has been supported by the facilities of the Regional Office in Whyalla and the research/technical department, sorting laboratory and Head Office in Melbourne.

6 EXPENDITURE

Expenditure of $ 6 287 has been allocated as shown in Table 1.

S. Potter

S D Potter
Geologist
Whyalla

H R Robison
Chief Geologist-South

Table 1 Expenditure Report for EL 1527 : Mt Wedge
Period Ending 31 January 1990

	$
CENTRAL TREATMENT PLANT	2 354
LABORATORY:	
TREATMENT	200
EXAMINATION	351
SPECIALIST SERVICES:	
GEOPHYSICS	2 178
DRAFTING	145
ADMINISTRATION:	
REGIONAL OFFICE	308
HEAD OFFICE	496
CAPITAL UTILISATION	255
TOTAL THIS PERIOD	$ 6 287
TOTAL PREVIOUSLY REPORTED	38 967
TOTAL EXPENDITURE TO DATE	$ 45 254

000041

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

SAMPHIRE FLAT

33°10'

COCATA HILL △

E.L. 1527

WARRAMBOO

N

COCATA CONSERVATION PARK

33°20'

MT. WEOGE △

33°30'

BARWELL CONSERVATION PARK

LOCK

135°20'

135°40'

133°30'

138°

32°

35°

CLEVE

1527

SOUTHERN OCEAN

0 5 10 15kms.

FIG 1

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 **LOCALITY MAP** **EXPLORATION LICENCE 1527** **MT WEDGE**	Compiled PDW Drawn ADS Date JANUARY'89 Scale 1:250,000 Revised SEL 3539

000042

E.L. 1527

E.L. 1516

X4962 X4961 X4960 X4946
X4964 X4963 X4958 X1359
X4957 X4956 X4955
X4974 X4973 X4972

BARWELL CONSERVATION PARK

Glengaraff

Four Winds

Glendinga

TOD HIGHWAY

Royston Park

Palkagee Glen

135°40'

LEGEND

KIMBERLITIC GARNET

1000m 0 1 2km

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
153-7 KIMBA / KOPI 6031-3
EL 1527 MT WEDGE

NORTH LOCK LOAM GRID SAMPLING SAMPLE RESULTS

Compiled	A.W.
Drawn	BAN
Date	AUG. '89
Scale	1:50000
Revised	
	SEL 3652

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

SIXTH QUARTERLY REPORT FOR THE PERIOD

ENDING 11 APRIL 1990

000044

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE
SIXTH QUARTERLY REPORT FOR THE PERIOD
ENDING 11 APRIL 1990

Edited: A C FRENCH

Author/s: S D POTTER

Approved: H R ROBISON

Date: APRIL 1990

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 2 Plan Nos.: 1 Table Nos.: 1 Appendices: _ Plates:_

Keywords: AIRBORNE MAGNETICS

Abstract: Exploration Licence 1527 covering the Mt Wedge area on the north western Eyre Peninsula was granted to Stockdale Prospecting Limited 12 October 1988 for a term of one year. An airborne geophysical survey over the area has been flown, and data has been processed and interpreted. Results from this exercise are awaited and once they have been received a programme of field work will begin.

Copy to: SADME, WHYALLA, IC

Ref: SDP36

Circulate to:

CONTENTS

MAPS

TABLES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

SIXTH QUARTERLY REPORT TO 11 APRIL 1990

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula in South Australia about 115 kilometres north west of Cleve on the Kimba 1:250 000 sheet (Map 1).

This report covers diamond exploration carried out by Stockdale Prospecting Limited during the quarter ending 11 April 1990.

2 FIELD WORK

No field work has been performed in the project area for this quarter.

3 AIRBORNE GEOPHYSICAL SURVEY

As part of the joint SADME/BMR airborne geophysical survey over the Eyre Peninsula in which Stockdale Prospecting Limited participated, the area of Exploration Licence 1527 was flown. The survey was carried out in late June 1988 by Geoterrex Pty Ltd.

The processing and interpretation of the data has been completed.

4 FORWARD WORK PROGRAMME

Upon reception of the aeromagnetic interpretation a programme of field work will commence to follow up anomalies with kimberlitic affinities.

5 STAFF

No field staff were employed on this project during the quarter.

The project has been supported by the facilities of the Regional Office in Whyalla and the research/technical department, sorting laboratory and Head Office in Melbourne.

6 EXPENDITURE

Expenditure of $ 4 212 has been allocated as shown in Table 1.

for. S D Potter
Geologist
Whyalla

H R Robison
Chief Geologist-South

Table 1 : Expenditure Report for EL 1527 : Mt Wedge
Period Ending 31 March 1990

	$
GENERAL OPERATING EXPENSES	655
SPECIALIST SERVICES:	
GEOPHYSICS	2 777
DRAFTING	42
ADMINISTRATION:	
REGIONAL OFFICE	138
HEAD OFFICE	559
CAPITAL UTILISATION	41
TOTAL THIS PERIOD	$ 4 212
TOTAL PREVIOUSLY REPORTED	45 254
TOTAL EXPENDITURE TO DATE	$ 49 466

000049

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

SAMPHIRE FLAT

33°10'

COCATA HILL △

E.L. 1527

WARRAMBOO

N

COCATA CONSERVATION PARK

33°20'

MT. WEDGE △

33°30'

BARWELL CONSERVATION PARK

LOCK

135°40'

133°30'

138°

32°

CLEVE

1527

SOUTHERN OCEAN

35°

0 5 10 15kms.

MAP 1

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 **LOCALITY MAP** **EXPLORATION LICENCE 1527** **MT WEDGE**	Compiled PDW Drawn ADS Date JANUARY'89 Scale 1:250,000 Revised SEL 3539

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO. 1527 : MT WEDGE

SEVENTH QUARTERLY REPORT FOR THE PERIOD

ENDING 11 JULY 1990

R7

000051

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE SEVENTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 JULY 1990

Edited: A C FRENCH

Author/s: S D POTTER

Approved: H R ROBISON

Date: APRIL 1990

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 2 Plan Nos.: 12 Table Nos.: 5 Appendices: 2 1 Plates: -

Keywords: AIRBORNE MAGNETICS, GROUND MAGNETIC SURVEYS, DRILLING

Abstract: During this quarter 20 possibly kimberlitic anomalies were selected from the SADME/BMR airborne geophysical survey. To date 9 anomalies have been ground surveyed and 2 of these have been investigated by drilling.

Copy to: SADME, WHYALLA, IC

Ref: SDP47

Circulate to:

CONTENTS

MAPS

TABLES

APPENDICES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

SEVENTH QUARTERLY REPORT TO 11 JULY 1990

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula about 2 kilometres south of Wudinna on the Kimba 1:250 000 sheet (Map 1).

During this quarter 20 possibly kimberlitic anomalies were selected from the SADME/BMR geophysical survey. Of these, 9 anomalies were ground surveyed and 2 were investigated by drilling.

2 AIRBORNE GEOPHYSICAL SURVEY

As part of the joint SADME/BMR airborne geophysical survey over the Eyre Peninsula in which Stockdale Prospecting Limited participated, the area of Exploration Licence 1527 was flown. The survey specifications are shown on Table 1.

The airborne magnetic data was processed and interpreted by the research and technical department in Melbourne (Map 2). The data is very active over most of the survey region due to Proterozoic and Archaean granites, which has hindered selection of targets. Cultural anomalies are not obvious due to the strong magnetic background and wide flight line spacing.

Shown on the Geophysical Interpretation Map are a total of 20 anomalies selected as potential kimberlitic targets (Map 3). The anomalies are designated MW1 to MW20 and are summarised in Table 2.

3 FIELD WORK

3.1 Ground Magnetic Surveys

Follow-up of the aeromagnetic anomalies has involved the creation of grids and subsequent collection of ground magnetic data to accurately locate and define targets.

During this quarter 9 of the 20 aeromagnetic anomalies have been ground surveyed. These are : MW01, MW04, MW05, MW10, MW12, MW16, MW18, MW19 and MW20. Large scale magnetic intensity plots of these anomalies are contained in Appendices 1 and 2.

For each anomaly an appropriate grid size was determined from the airborne data. Grid lines were oriented north-south at 50 metre intervals and readings of the total magnetic field were taken at 25 metre spacings. The AMG co-ordinates of the 5000E/5000N peg for completed anomalies are shown in Table 3.

The data from each survey was corrected and contoured in the field using a portable P.C. The resulting contour plots are shown as Maps 4 - 12. The ground magnetic contour plot may differ significantly from the magnetic intensity plot. This is due to the wide flight line spacing of the airborne data inhibiting accurate anomaly definition.

3.2 Heavy Mineral Sampling

At anomalies MW12, MW18 and MW19 20 litres of -1.0 + 0.3 mm loam material was collected within a 100 metre radius of the magnetic anomaly centre. The sample numbers used were Z7909 (MW12), X5386 (MW18) and X5379 (MW19).

These samples are in Whyalla waiting treatment and examination for diamonds and kimberlitic indicators.

3.3 Drilling Programme

As part of a larger drilling programme, a rotary air/mud drilling rig provided by Thompson Drilling was available to investigate anomalies MW18 and MW19. The drilling is summarised in Table 4.

Detailed logging and sampling of the holes is not yet complete.

4 STAFF

Staff employed in the field programme were :

Geologists	2
Field Assistants	4

The project has been supported by the facilities of the Regional Office in Whyalla, the personnel and facilities of the research/technical department and Head Office in Melbourne.

5 FORWARD WORK PROGRAMME

The continuation of ground magnetic surveying will proceed during the next quarter. If weather permits a sampling programme will commence.

6 EXPENDITURE

Expenditure of $ 45 933 has been allocated as shown in Table 5.

S. Potter

S D Potter
Geologist
Whyalla

H R Robison
Chief Geologist-South

Table 1 : Airborne Geophysical Survey Specifications

Area	1592 km
Line Kms	3516 km
Flight Direction	East - West
Mag Sensor Height	100 metres
Flight Line Separation	500 metres
Tie Line Separation	5 km
Magnetometer	Cesium Vapour
Sample Interval	0.2 seconds
Navigation	Radio Beacons (Syledus)
Contractor	Geoterrex
Data	Total Intensity Magnetics Four Channel Gamma Radiometrics Two Component VLF

TABLE 2: **Mt WEDGE (E53-7) AIRMAGNETIC TARGETS**

ANOMALY #	EASTING	NORTHING	PRIORITY	Peak nT	COMMENTS
MW01	543087	6336045	2	260	Could be part of Archean granite?
MW02	539337	6332482	2	600	Granitic basement anomaly? On basement fault.
MW03	535474	6325920	2	400	High priority apart from high amplitude magnetics.
MW04	539374	6322470	2	300	Possibly Proterozoic basement outcrop?
MW05	543687	6316957	3	350	Possibly Proterozoic basement ?
MW06	525687	6329820	3	450	Possibly Proterozoic basement outcrop?
MW07	520849	6326520	2	250	Coincides with Proterozoic outcrop. Check carefully .
MW08	521899	6321420	3	250	Possibly Proterozoic basement?
MW09	531012	6308895	2	300	
MW10	536787	6306945	3	300	Basement anomaly?
MW11	535062	6303157	2	400	Broad basement anomaly? On basement fault.
MW12	544062	6308070	1	350	
MW13	540724	6300495	2	180	Within Elliston (Itiledoo) Trough?
MW14	538437	6297420	3	170	Elongate anomaly (dyke?), Within Elliston (Itiledoo) Trough?
MW15	533712	6294682	2	120	Broad anomaly? Within Elliston (Itiledoo) Trough?
MW16	546349	6301057	2	120	Elongate anomaly. May be to deep.
MW17	548299	6296482	1	250	Within Polda Trough?
MW18	560074	6298920	1	100	Within Polda Trough?
MW19	561012	6296745	1	70	Within Polda Trough?
MW20	546199	6314520	2	700	On basement fault.

Table 3 : AMG Co-ordinates of 5000E/5000N Pegs for Completed Anomalies

ANOMALY	CO-ORDINATE	
MW01	543087E	6336045N
MW04	539374E	6322470N
MW05	543687E	6316957N
MW10	536787E	6306945N
MW12	544062E	6308070N
MW16	546349E	6301057N
MW18	560074E	6298920N
MW19	561012E	6296745N
MW20	546199E	6314520N

Table 4 : Drilling Programme Summary

Anomaly	Grid Co-ords	Depth	Summary Log		
MW18	4900E 4575N	58m	0-15m 15-50m 50-56m 56-58m EOH	Qpb Tep	Bridgewater Formation Poelpena Formation Weathered Basement Granite/BIF
MW19	5000E 4975N	48m	0-14m 14-32m 42-46m 46-48m EOH	Qpb Tep	Bridgewater Formation Poelpena Formation Weathered basement Granite

Table 5 : Expenditure Report for EL 1527 : Mt Wedge
Period Ending 31 June 1990

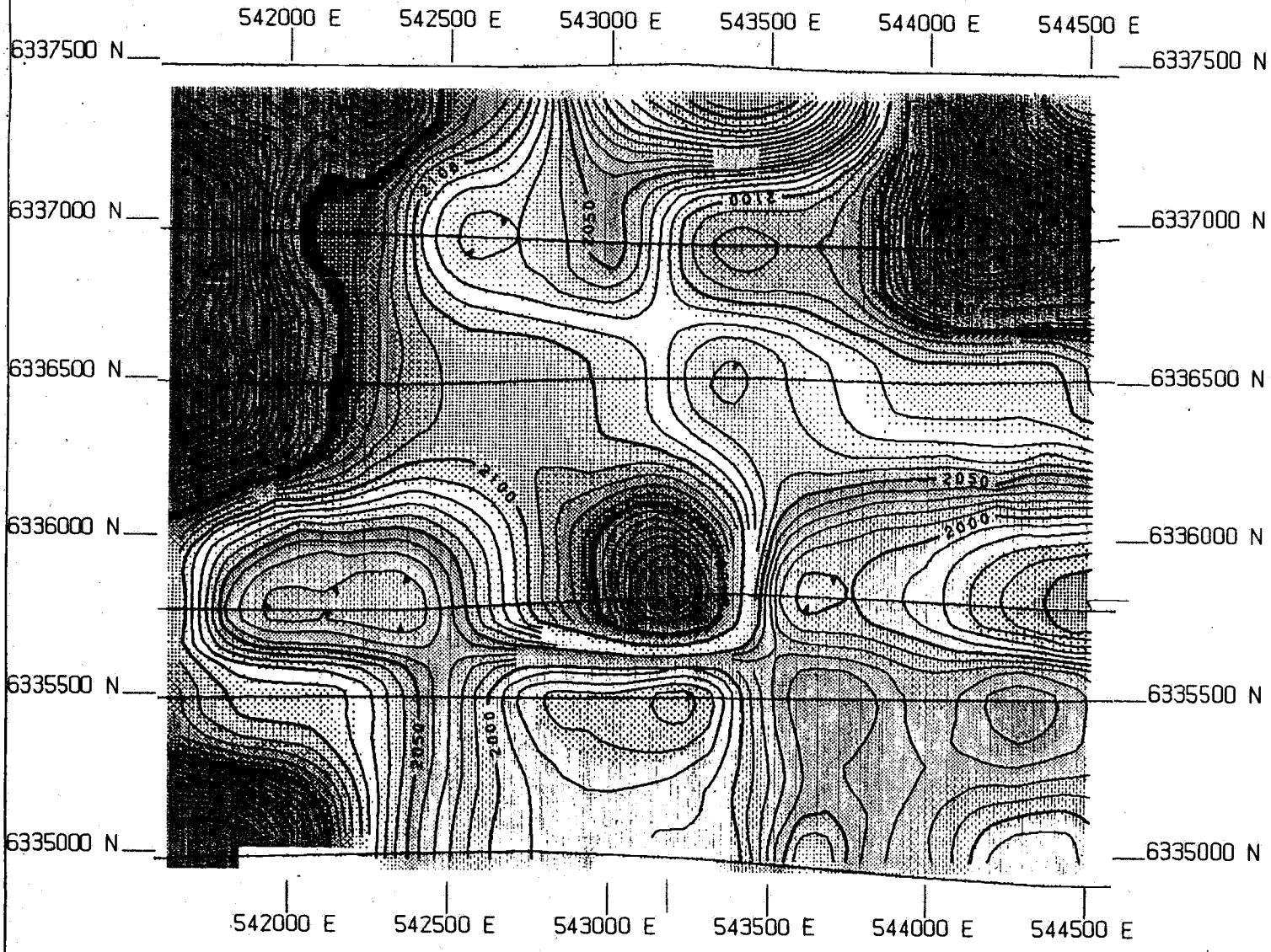
	$
OPERATIONAL STAFF COSTS	22 447
GENERAL OPERATING EXPENSES	2 604
TRANSPORT AND TRAVEL	994
DRILLING CONTRACTORS	2 098
CENTRAL TREATMENT PLANT	1 532
SPECIALIST SERVICES:	
GEOPHYSICS	4 183
DRAFTING	581
ADMINISTRATION:	
REGIONAL OFFICE	5 970
HEAD OFFICE	3 744
CAPITAL UTILISATION	1 780
TOTAL THIS PERIOD	$ 45 933
TOTAL PREVIOUSLY REPORTED	49 466
TOTAL EXPENDITURE TO DATE	$ 95 399

APPENDIX 1

Magnetic Intensity Plots

For Completed Anomalies

Airborne Data



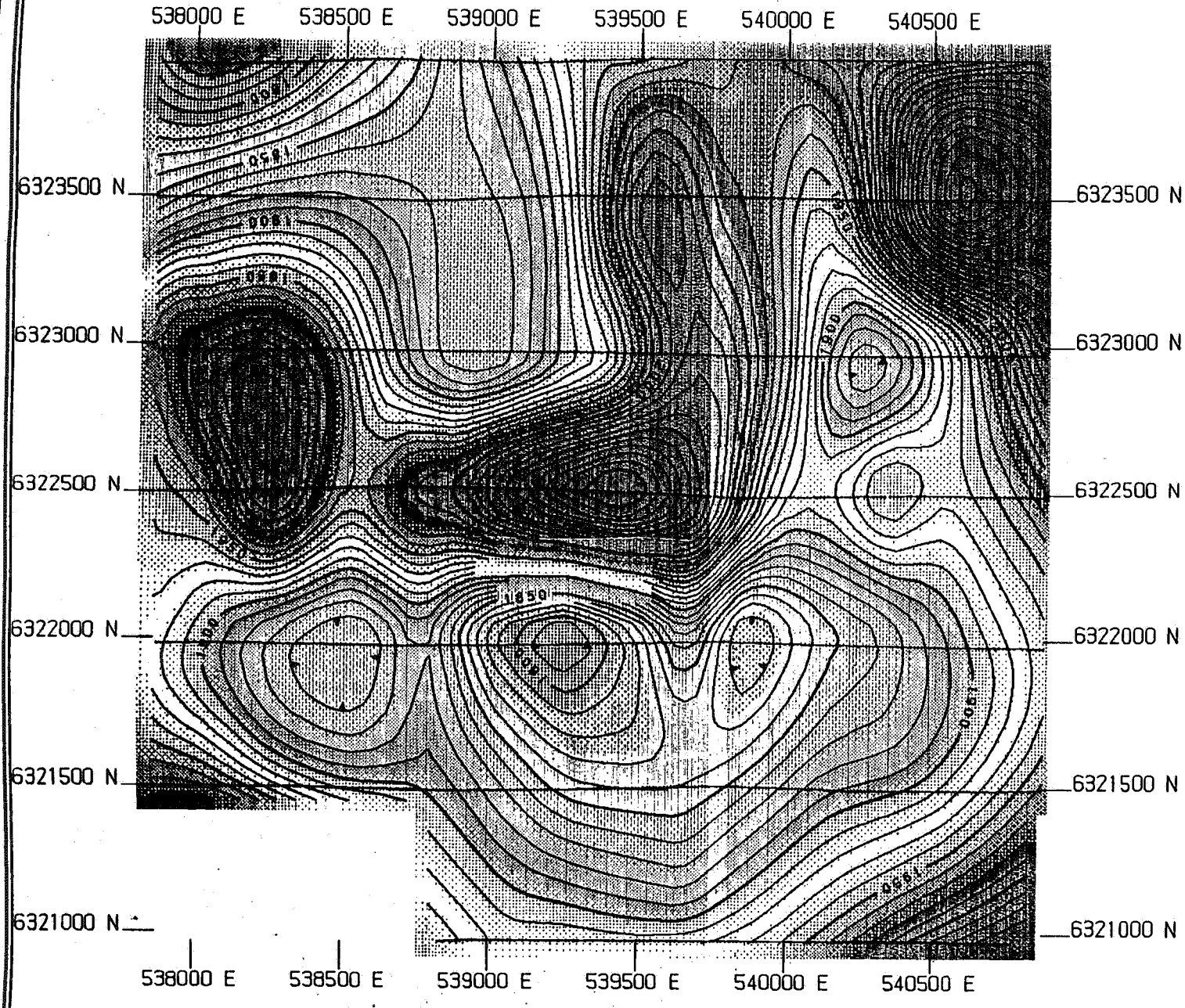
Scale 1:20000

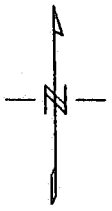
250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW01 Magnetic Intensity
Contour Interval = 10nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1163

000062





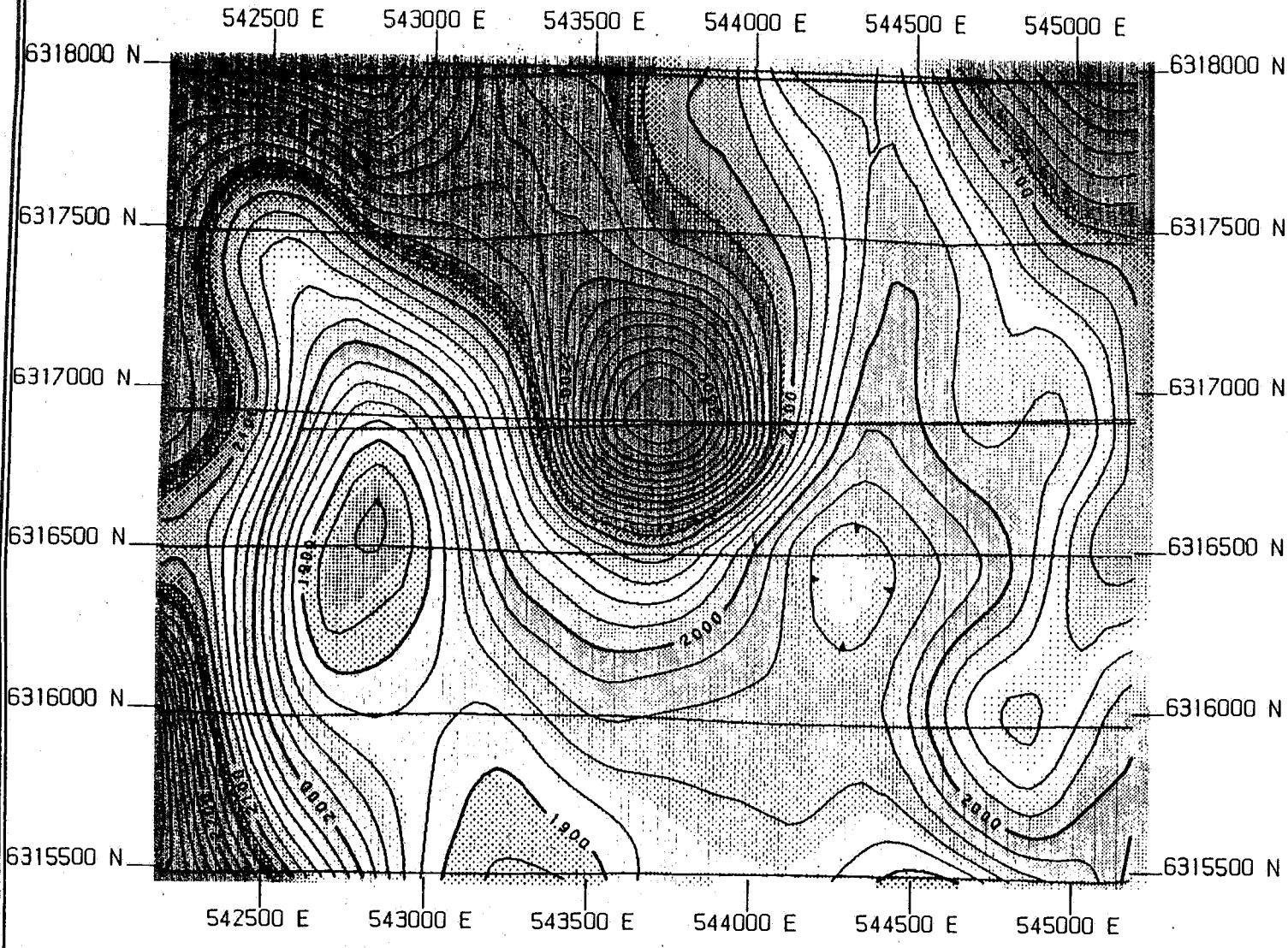
Scale 1:20000

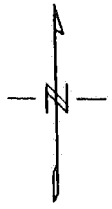
250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW04 Magnetic Intensity
Contour Interval - 10nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: 61166

000063



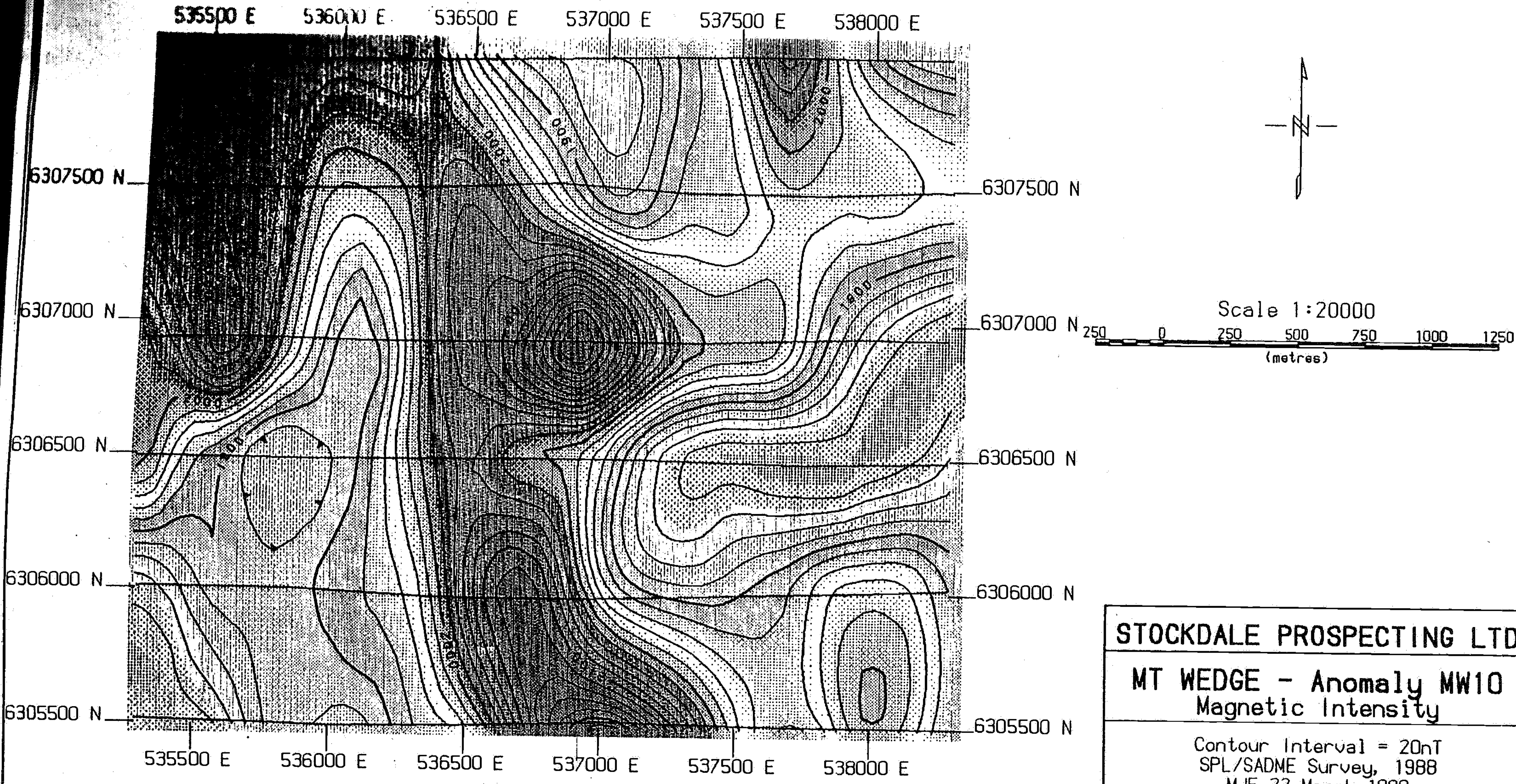


Scale 1:20000

250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW05 Magnetic Intensity
Contour Interval = 20nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1167

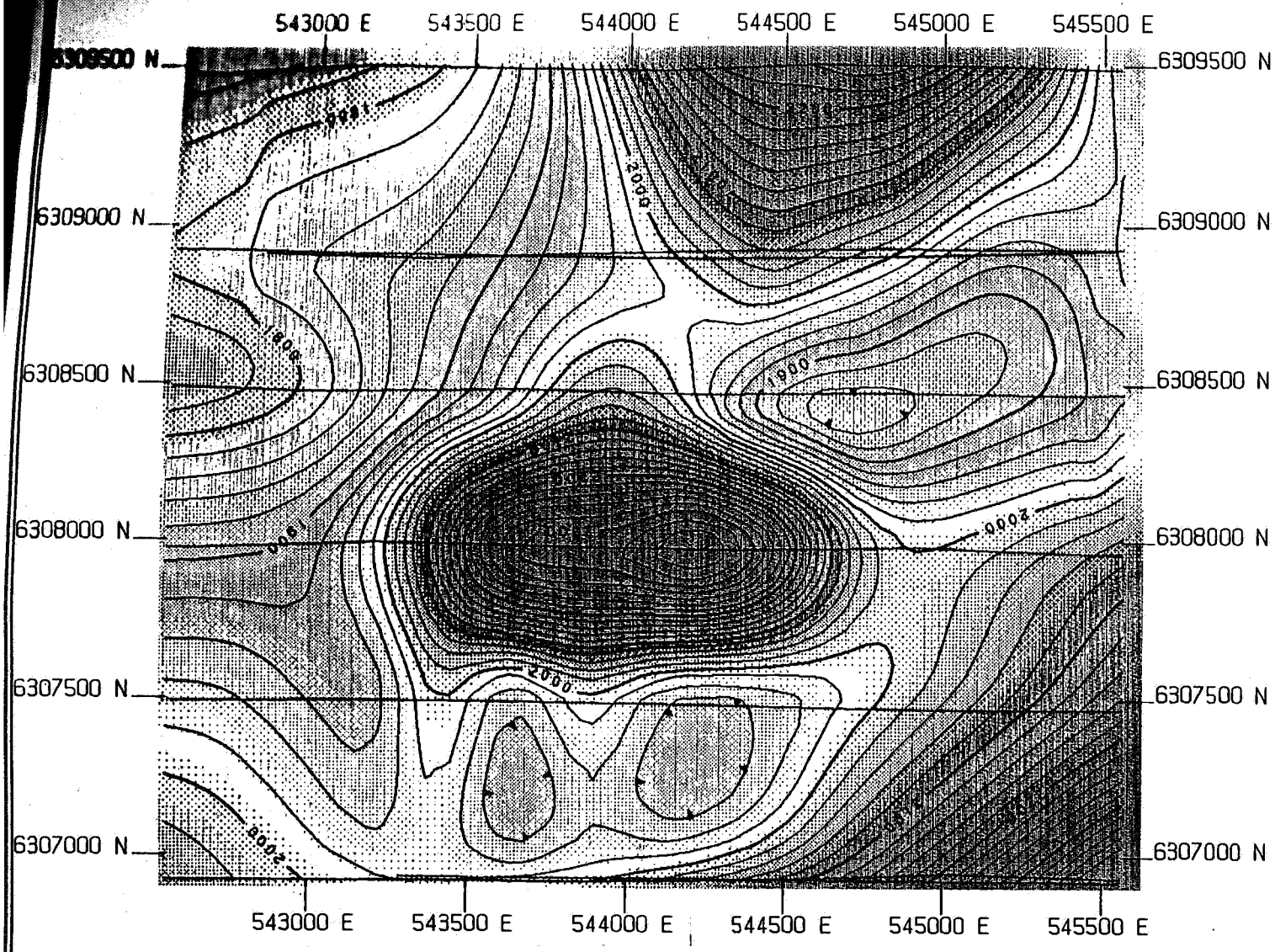


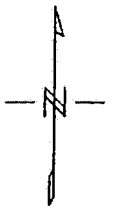
STOCKDALE PROSPECTING LTD

MT WEDGE - Anomaly MW10
Magnetic Intensity

Contour Interval = 20nT
SPL/SADME Survey, 1988
MJF 22 March 1990

Kimba, 153-07 SEL: G1172



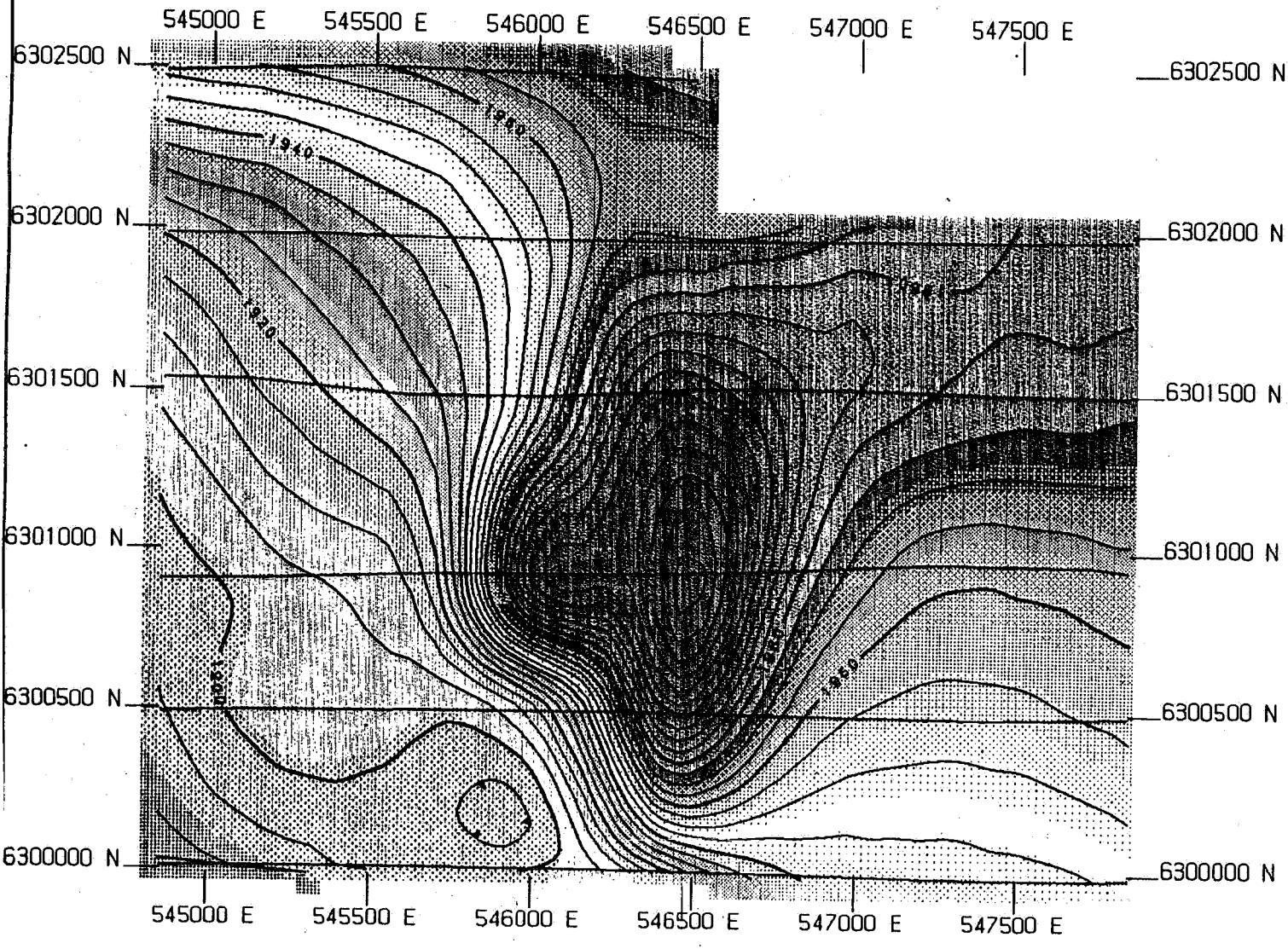


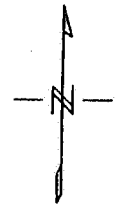
Scale 1:20000

250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW12 Magnetic Intensity
Contour Interval = 20nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1174





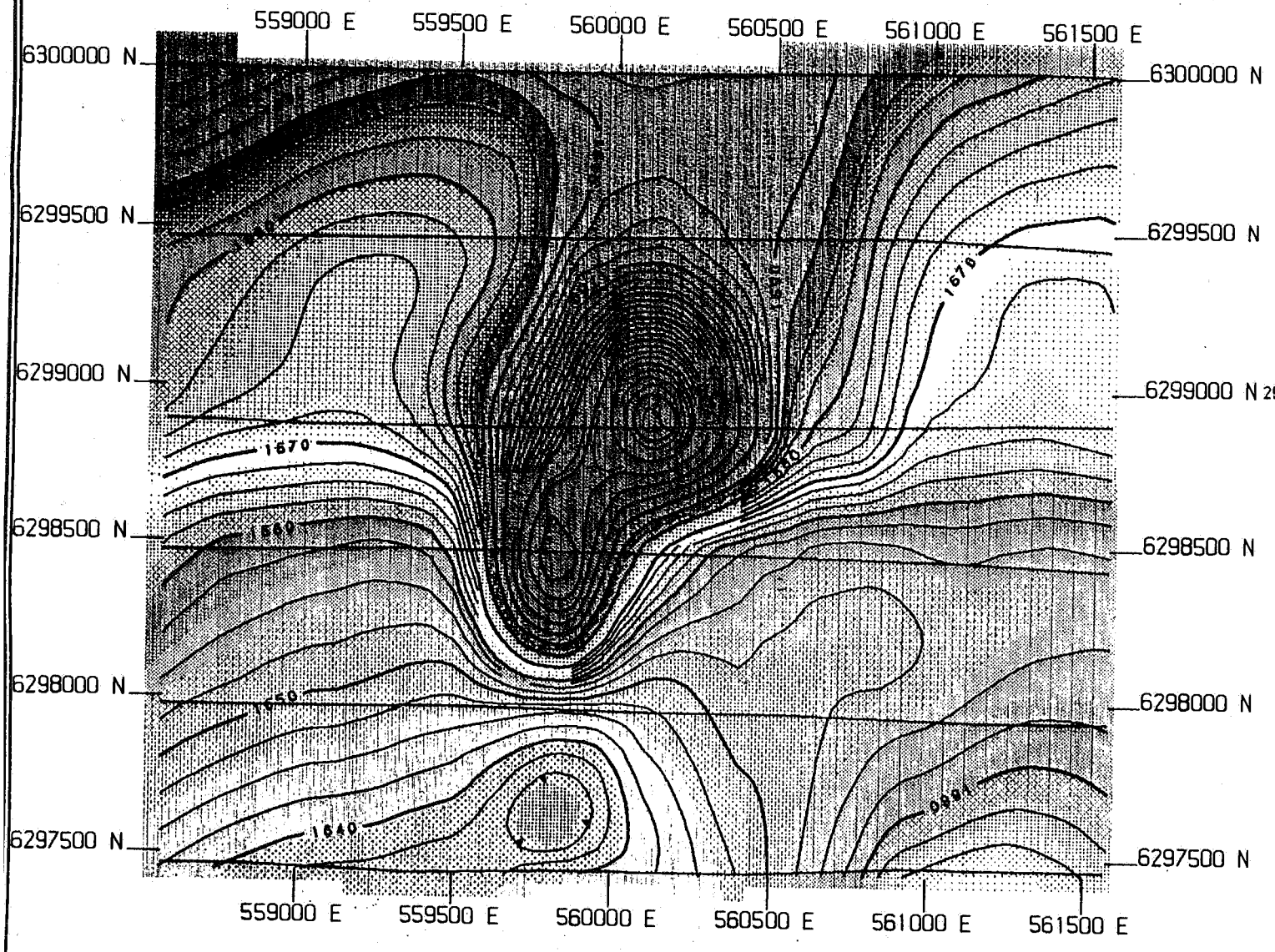
Scale 1:20000

250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW16 Magnetic Intensity
Contour Interval - 5nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1178

90000/



N

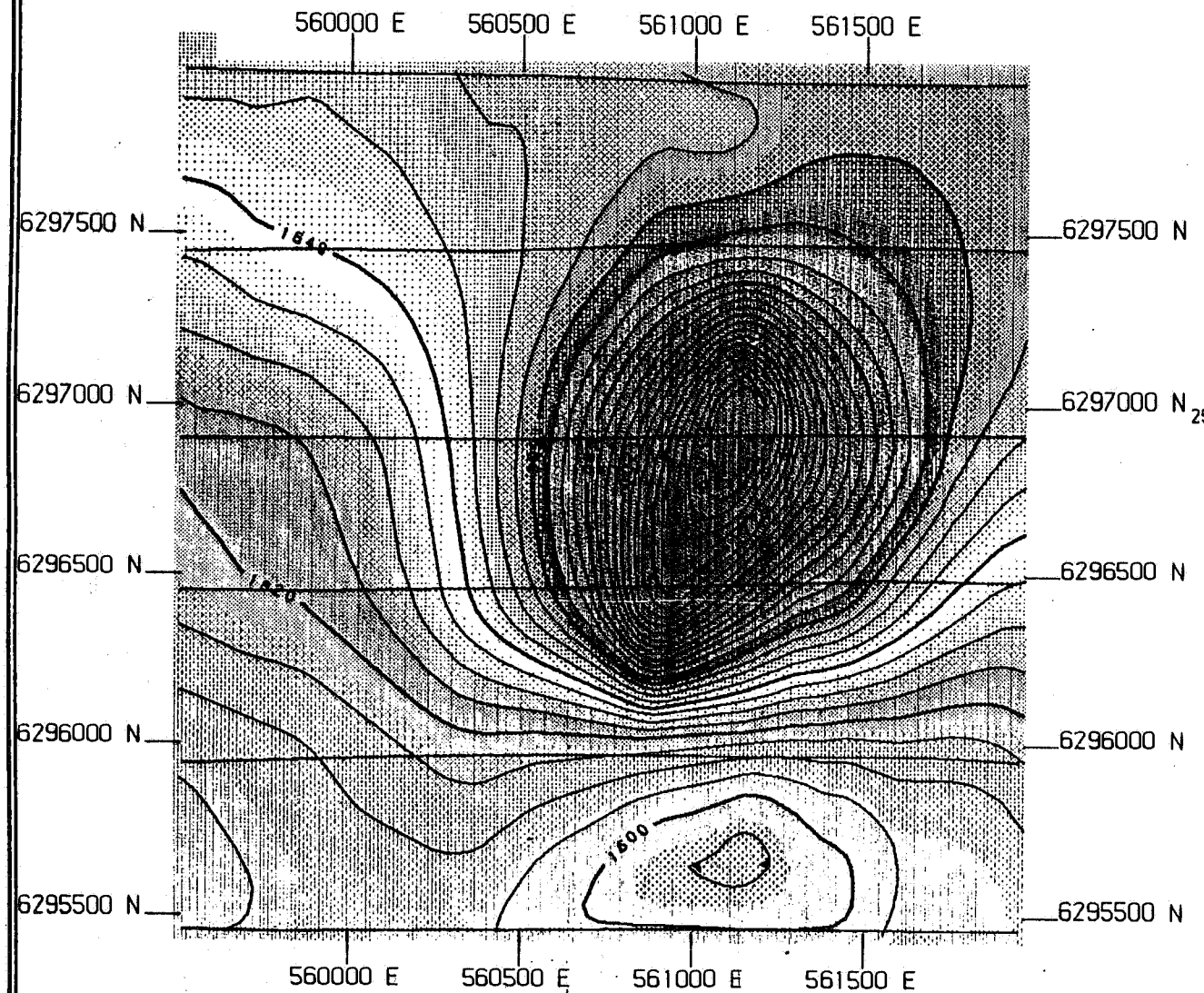
Scale 1:20000

250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW18 Magnetic Intensity
Contour Interval - 2.5nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1180

93000

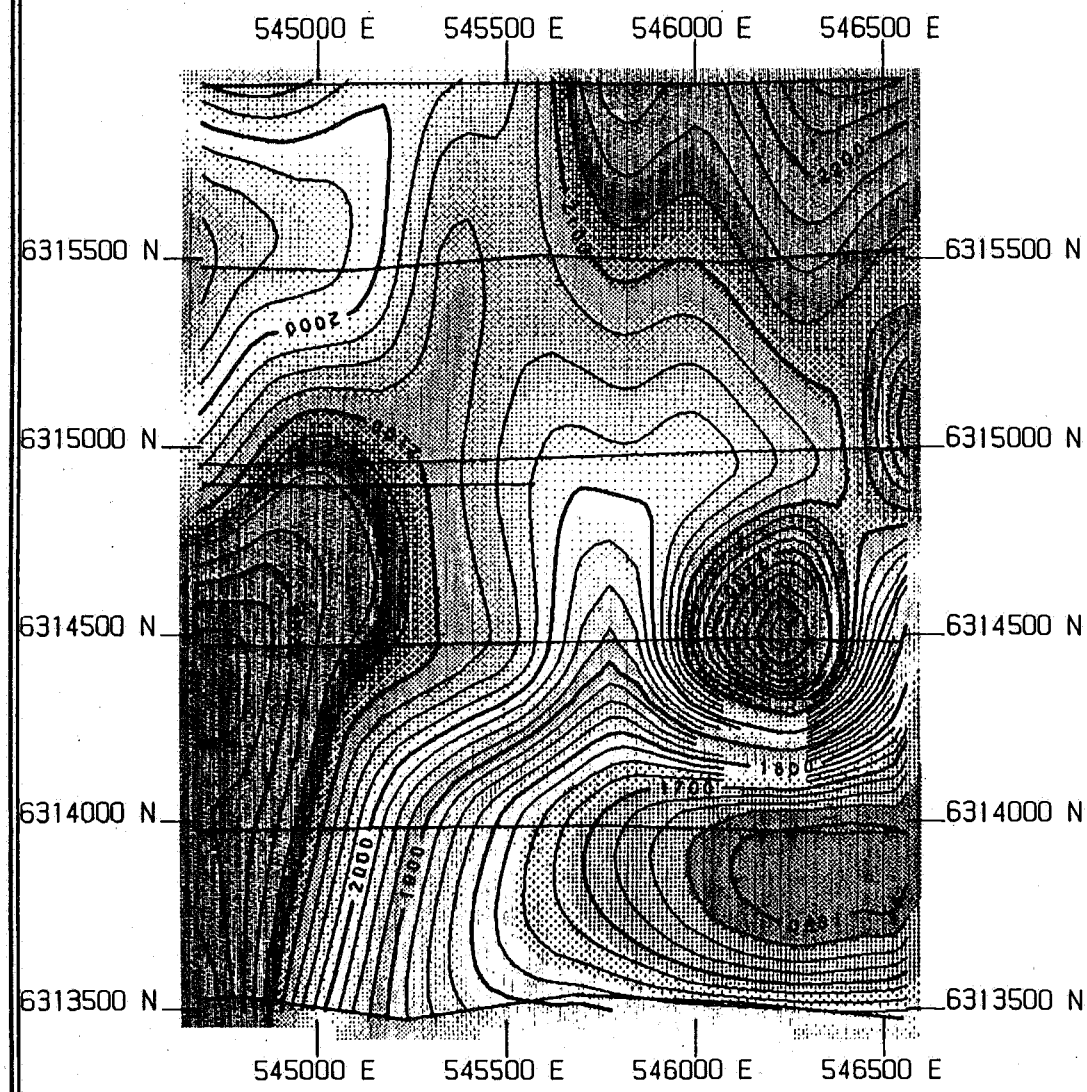


Scale 1:20000

250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW19 Magnetic Intensity
Contour Interval = 5nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1181



Scale 1:20000

250 0 250 500 750 1000 1250

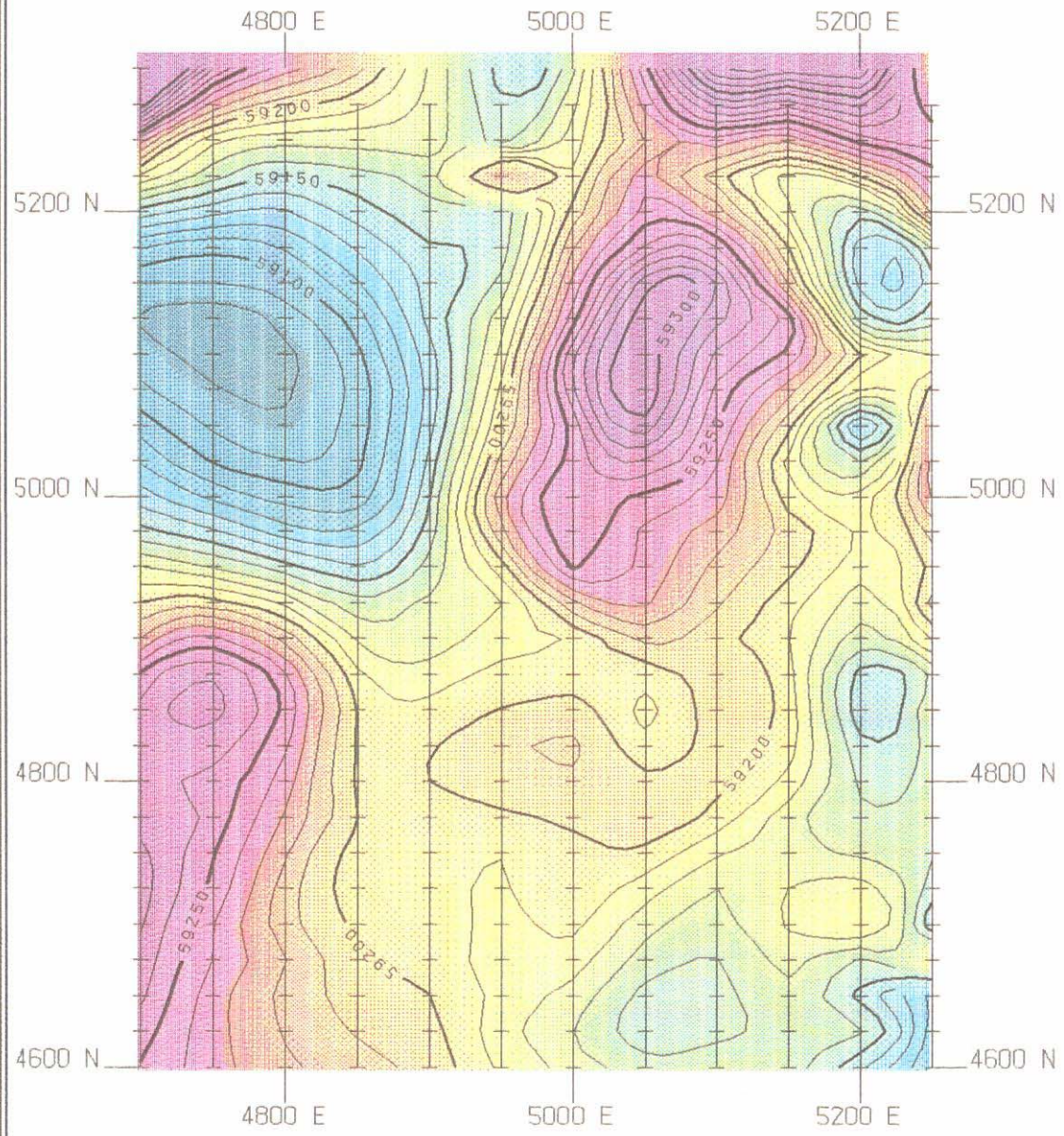
(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW20 Magnetic Intensity
Contour Interval = 25nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1182

020000

APPENDIX 2

Magnetic Intensity Plots
for completed anomalies
- Ground Data -



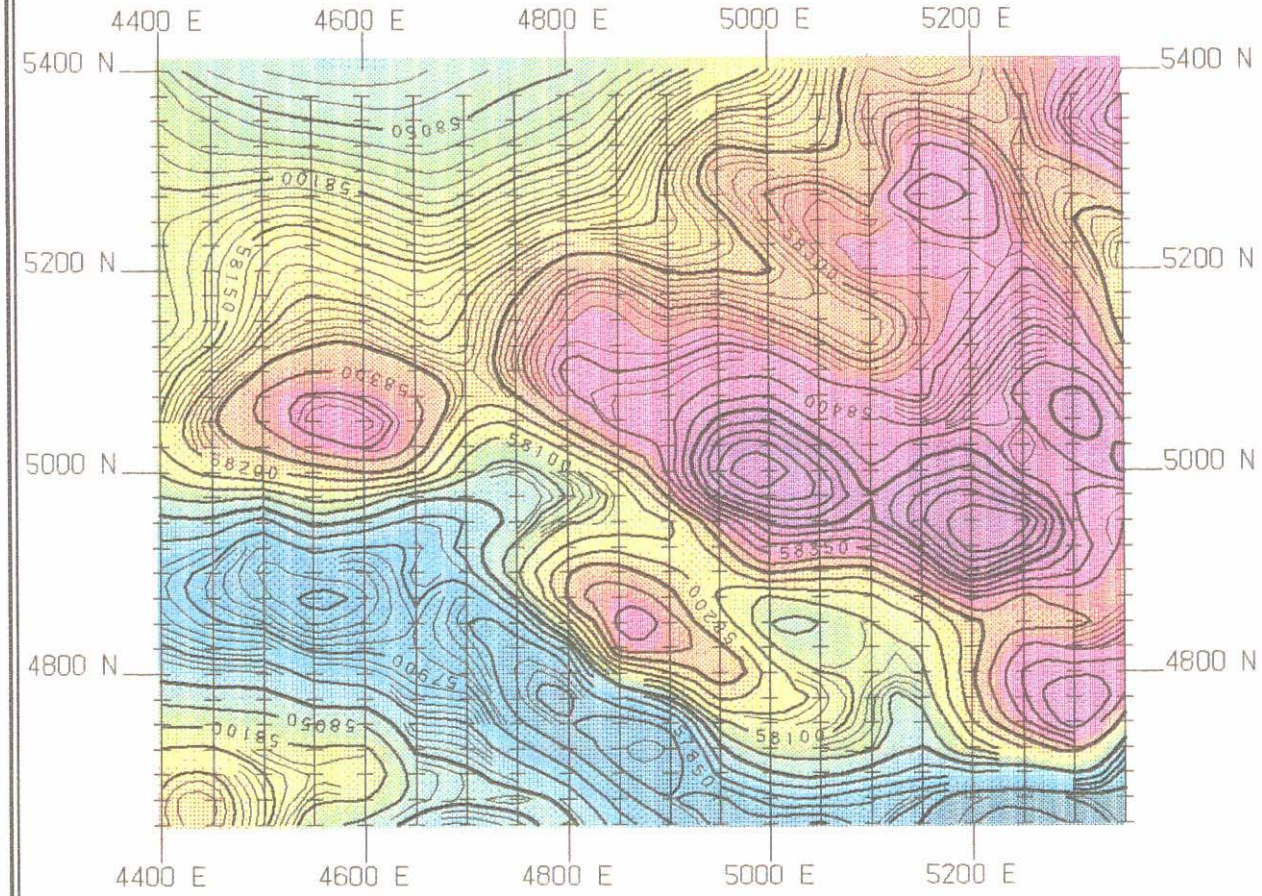
Scale 1:5000

50 0 50 100 150 200 250

(metres)

STOCKDALE PROSPECTING LTD
EL 1527 : MT WEDGE MW1 Ground Magnetics
Contour Interval = 10 nT 9\6\90 SDP
Map 4 SEL:

270000

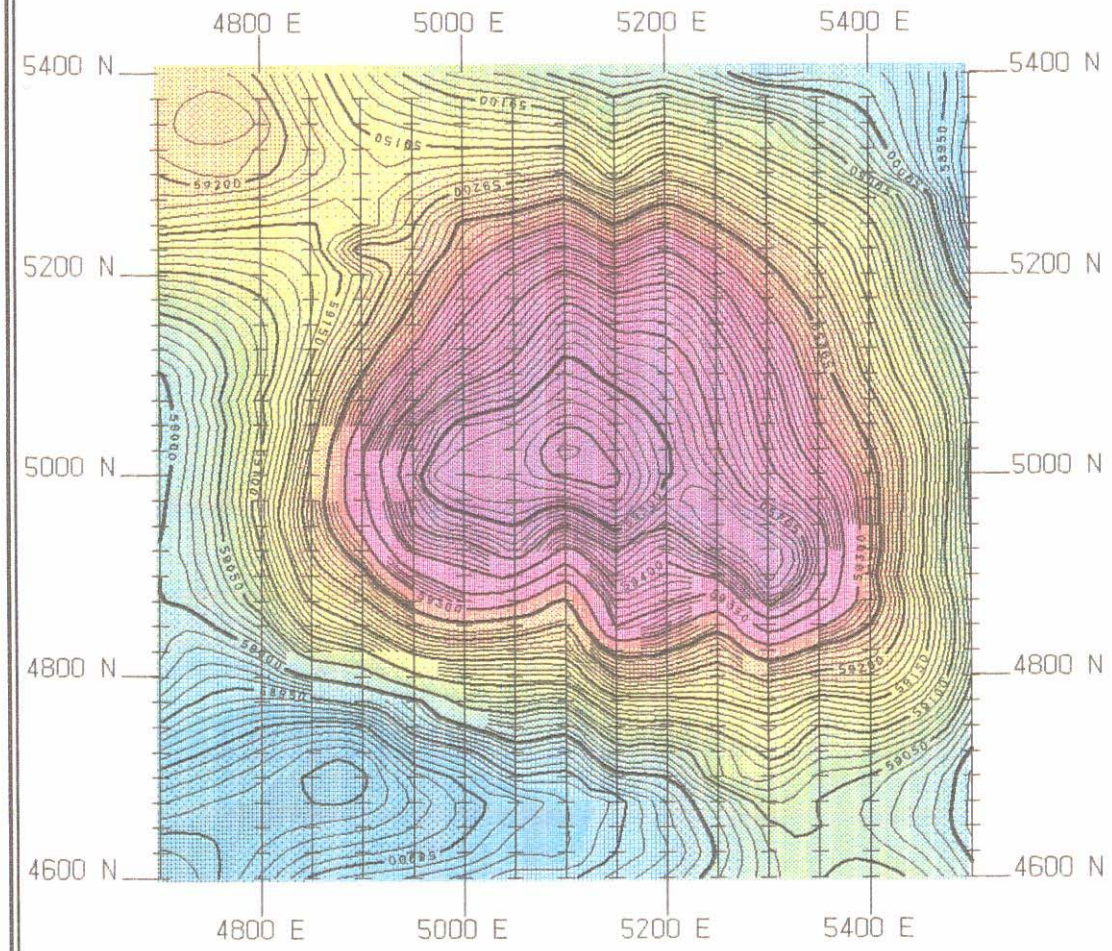


Scale 1:7500

100 0 100 200 300 400 500

(metres)

STOCKDALE PROSPECTING LTD
EL 1527 : MT WEDGE MW4 Ground Magnetics
Contour Interval = 10 nT 31\5\90 SDP
Map 5 SEL:



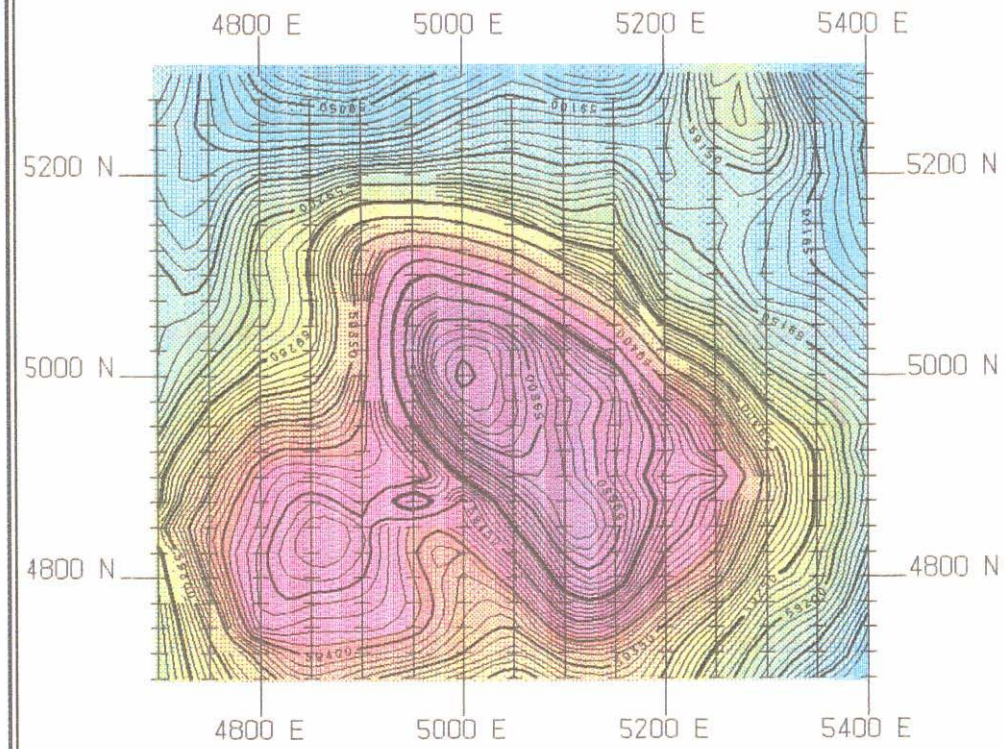
Scale 1:7500

100 0 100 200 300 400 500

(metres)

STOCKDALE PROSPECTING LTD
EL 1527 : MT WEDGE MW5 Ground Magnetics
Contour Interval = 10 nT 9\6\90 SDP
Map 6 SEL:

000074



Scale 1:7500

100 0 100 200 300 400 500

(metres)

STOCKDALE PROSPECTING LTD

EL 1527 : MT WEDGE

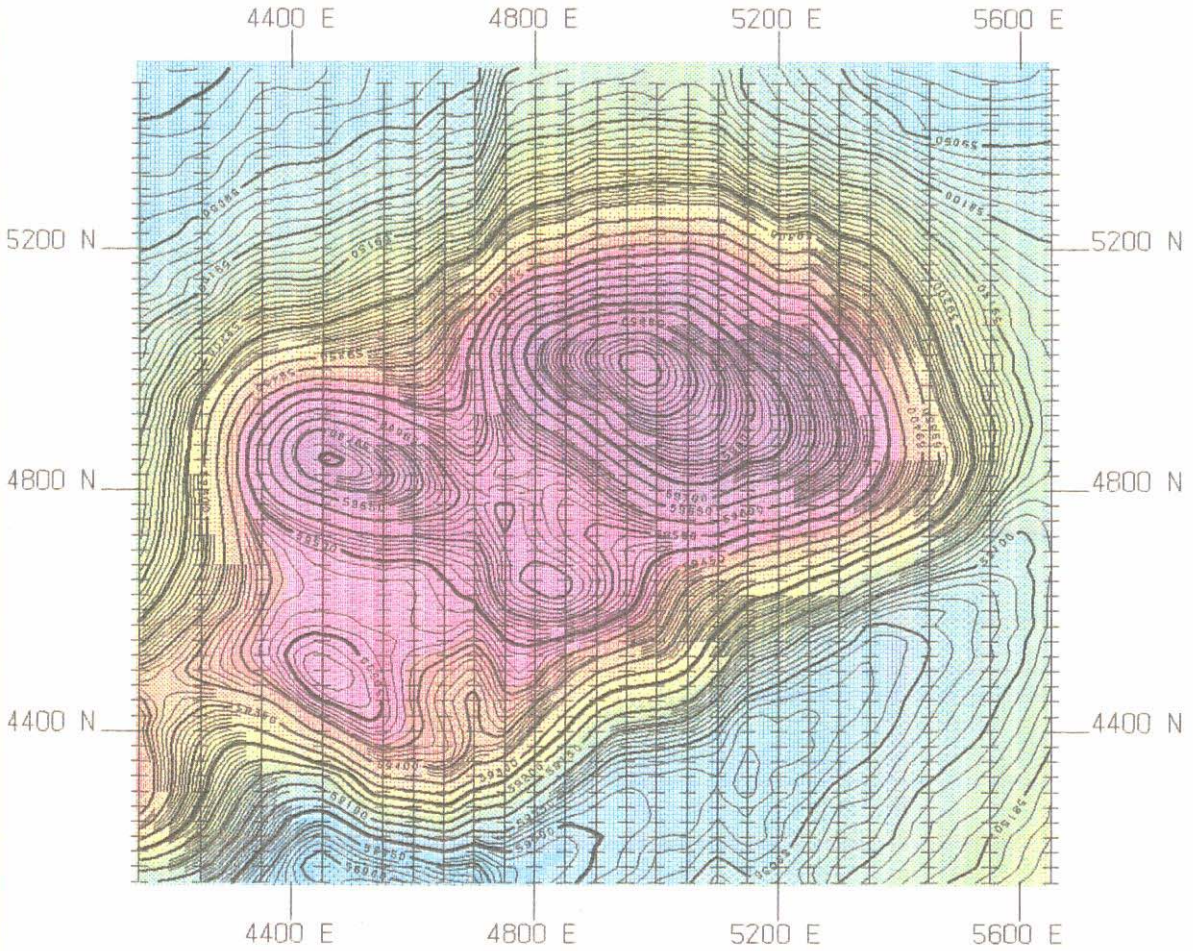
MW10 Ground Magnetics

Contour Interval = 10 nT

18\5\90

SDP

Map 7 SEL:

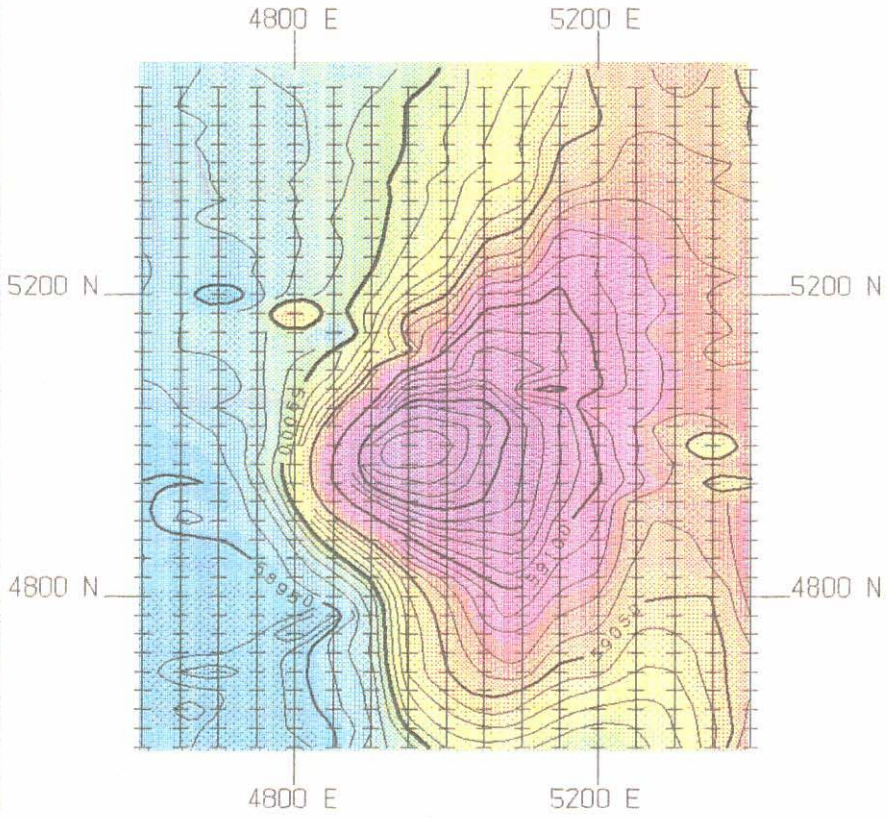


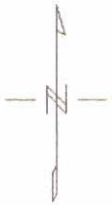
Scale 1:12500

250 0 250 500 750

(metres)

STOCKDALE PROSPECTING LTD
EL 1527 : MT WEDGE MW12 Ground Magnetics
Contour Interval = 10 nT 12\5\90 SDP
Map 8 SEL:





Scale 1:10000

100 0 100 200 300 400 500

(metres)

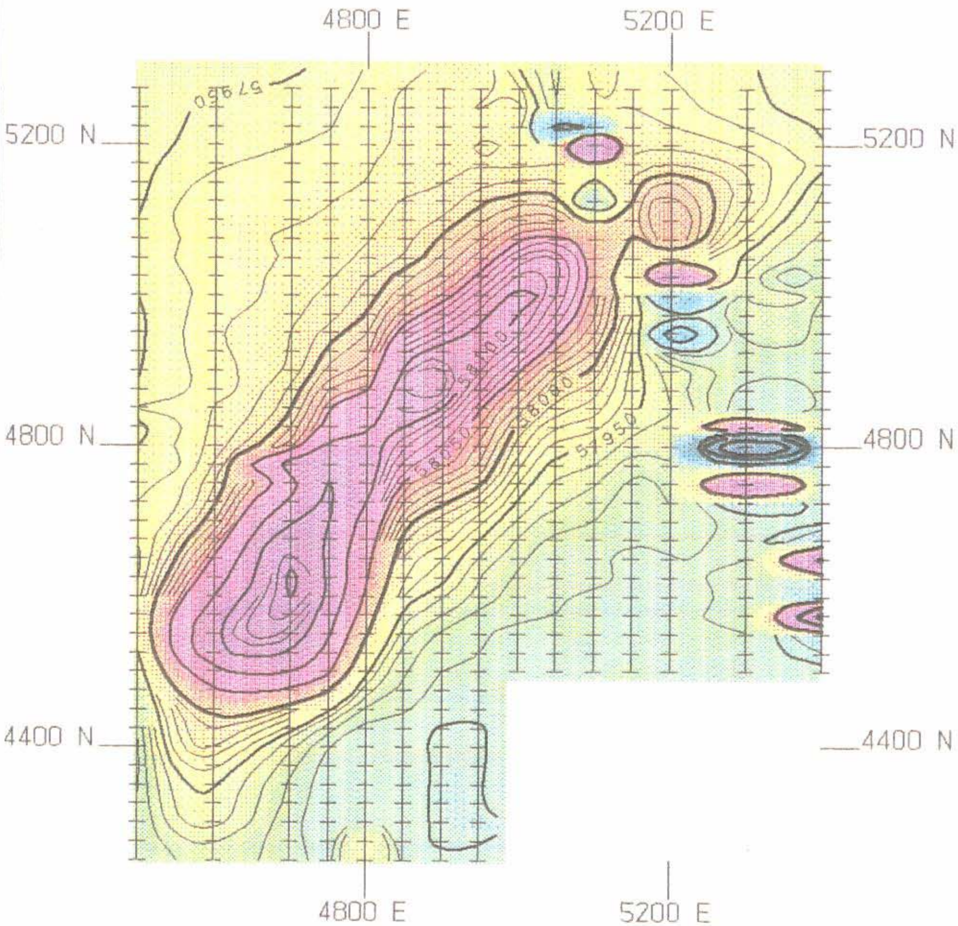
STOCKDALE PROSPECTING LTD

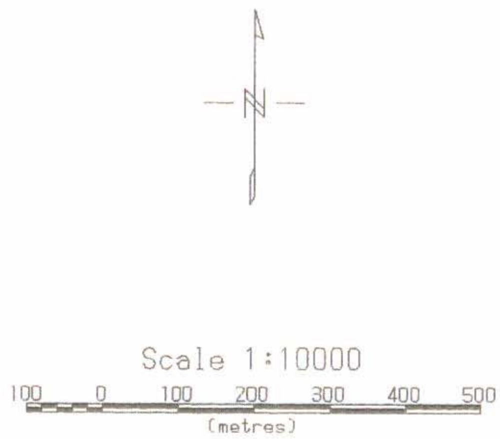
EL 1527 : MT WEDGE

MW16 Ground Magnetics

Contour Interval = 10 nT
17\5\90
SDP

Map 9 SEL:





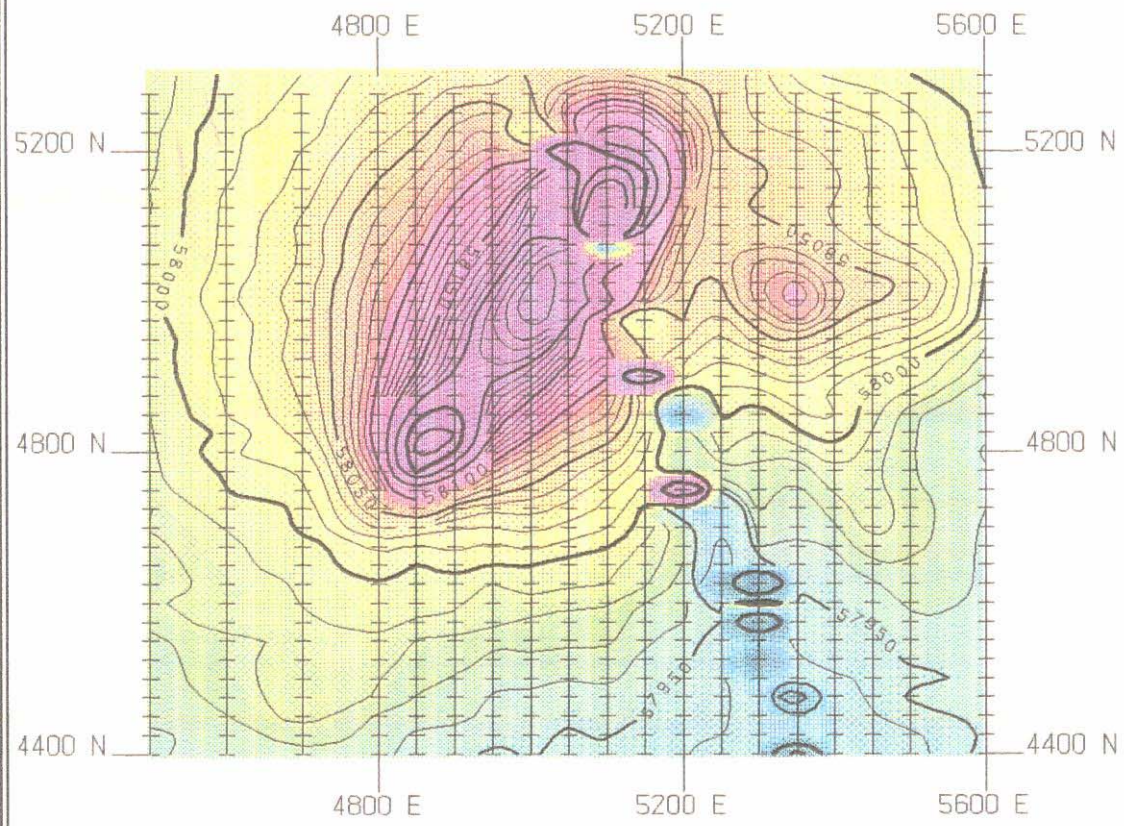
STOCKDALE PROSPECTING LTD

EL 1527 : MT WEDGE
MW18 Ground Magnetics

Contour Interval = 10 nT
17\5\90
SDP

Map 10 SEL:

000073



Scale 1:10000

100 0 100 200 300 400 500

(metres)

STOCKDALE PROSPECTING LTD

EL 1527 : MT WEDGE

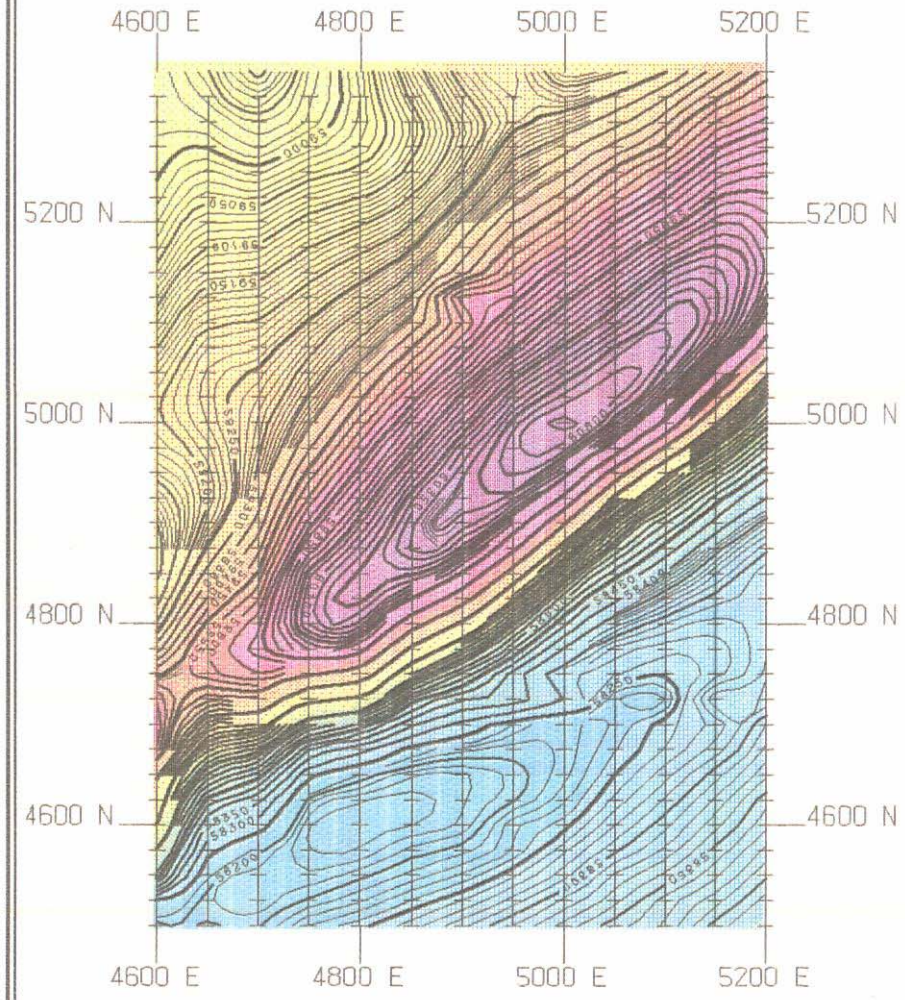
MW 19 Ground Magnetics

Contour Interval = 10 nT

15\5\90

SDP

Map 11 SEL:



Scale 1:7500

100 0 100 200 300 400 500

(metres)

STOCKDALE PROSPECTING LTD

EL 1527 : MT WEDGE

MW20 Ground Magnetics

Contour Interval = 10nT

9\6\90

SDP

Map 12 SEL:

000081

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

33°10'

SAMPHIRE FLAT

COCATA HILL

E.L. 1527

COCATA CONSERVATION PARK

WARRAMBOO

N

33°20'

MT. WEOGE

33°30'

BARWELL CONSERVATION PARK

LOCK

135°40'

133°30'

138°

32°

35°

CLEVE

1527

SOUTHERN OCEAN

0 5 10 15 kms.

MAP 1

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 **LOCALITY MAP** **EXPLORATION LICENCE 1527** **MT WEDGE**	Compiled POW Drawn AOS Date JANUARY '89 Scale 1:250,000 Revised SEL 3539

8087-1

N O R T H

CONTOUR INTERVAL = 20 DATUM = 0

0m 12000m

Scale 1:100000

FLIGHT SPECIFICATIONS

Date flown:	Nov 1988 Jan 1989
Type of aircraft:	Shrike Commander
Flown for:	SPL
Data collected:	magnetics radiometrics
Magnetometer type:	Scintrex cesium vapour
Spectrometer type:	Nuclear Data 256 ch (4 windows recorded)
Average height:	100 m
Average speed:	125 knots (70m/s)
Flight direction:	East West
Line spacing:	500 m

DATA SPECIFICATIONS

Sample interval:	14 m
Noise estimate:	0.2 nT
Mag sensitivity:	0.04 nT
Mag cycle rate:	0.2 s
Position control:	Syledis navigation
Regional removed:	IRGF/AGRF
Noise filter:	none

STOCKDALE PROSPECTING LTD

TOTAL FIELD MAGNETICS

KIMBA I53-07

MOUNT WEDGE

8087-1

SEL: 61569

DAMPER 1:100 000 KOPI 1:100 000

135° 10' 20 30 40 135° 20' 135° 30' 40

SURVEY OUTLINE

WUDINNA

SWAMP

MAJOR BASEMENT FAULT

MW 01

EYRE HWY.

KYANCUTTA

SLEAFORD COMPLEX OUTCROP

UNDERLYING ARCHEAN BASEMENT AP's SLEAFORD COMPLEX

MW 02

PORGIA HILL (HILTABA GRANITE OUTCROP)

MW 06

MW 07

UNCONTITCHE HILL (HILTABA GRANITE OUTCHOP)

MW 03

MW 08

MW 04

PINTHYPUT HILL

UNDERLYING PROTEROZOIC BASEMENT. HILTABA SUITE P y b

WARRAMBOO

MW 05

MW 20

ELLISTON TROUGH

MOORNABA SAND Qho

BRIDGE WATER FORMATION Qpb

AEOLIAN CALCARENITE

MW 09

MW 10

MW 12

MW 11

Pcb Conglom.

MW 13

MW 16

MW 18

MW 14

MW 17

MW 19

DYKE ?

MW 15

ELLISTON TROUGH POLDA TROUGH

N

FAULTS (MAJOR)

FAULTS

INFERRED DYKES

ROADS

EDGE OF ELLISTON (BLUE RANGE BEDS)

SUB-OUTCROPPING/BLUE RANGE BEDS (CONGLOMERATE WITH HIGH K AND Th LEVELS)

OUTCROPPING PROTOZOIC GRANITES

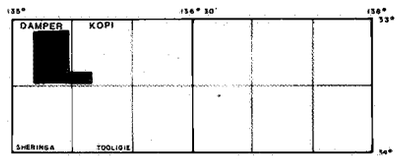
OUTCROPPING ARCHEAN GRANITES

BOUNDARY BETWEEN EXPOSED BRIDGEWATER FORM. AND NTH. SAND CLAY COVER

ANOMALY

NOTE : AMG's DERIVED FROM PHOTO ENLARGED IMAGE AND ARE SUBJECT TO E-W / N-S ERROR

LOCATION MAP



KIMBA 153-7 WHYALLA 153-8

MAP 3

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
KIMBA 153-7

MT WEDGE

AIRBOURNE GEOPHYSICAL INTERPRETATION

Compiled	FWA
Drawn	ADS
Date	3/90
Scale	1:250 000
Revised	
SEL 3804	

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

EIGHTH QUARTERLY REPPORT FOR THE PERIOD ENDING 11 OCTOBER 1990

000084

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE EIGHTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 OCTOBER 1990

Edited: F M GAUNT

Author/s: S D POTTER

Approved: H R ROBISON

Date: OCTOBER 1990

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 3 Plan Nos.: 4 Table Nos.: 2 Appendices: 3 Plates: -

Keywords: AIRBORNE MAGNETICS, GROUND MAGNETIC SURVEYS, DRILLING, HEAVY MINERAL SAMPLES

Abstract: During this quarter 3 airborne anomalies were ground surveyed and a reconnaissance sampling programme was performed.

Copy to: SADME, WHYALLA, IC

Ref: SDP54

Circulate to:

CONTENTS

MAPS

TABLES

APPENDICES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

EIGHTH QUARTERLY REPORT TO 11 OCTOBER 1990

1 INTRODUCTION

Exploration Licence No. 1527 is located on the north western Eyre Peninsula about 2 kilometres south of Wudinna on the Kimba 1:250,000 sheet (Map 1).

During this quarter, 3 magnetic anomalies were ground surveyed and a reconnaissance sampling programme was performed.

2 FIELD WORK

2.1 Ground Magnetic Surveys

Follow up of aeromagnetic anomalies (previous quarterly report) has involved the creation of grids and subsequent collection of ground magnetic data to accurately locate and define targets.

During the quarter 3 anomalies have been ground surveyed. These are : MW03, MW13 and MW15 (Map 2). Large scale magnetic intensity plots of the data are contained in Appendices 1 and 2.

For each anomaly an appropriate grid size was determined from the airborne data (Appendix 1). Grid lines were oriented north-south at 50 metre intervals and readings of the total magnetic field were taken at 25 metre spacings. The AMG co-ordinates of the 5000E/5000N peg for completed anomalies are shown in Table 1.

The data from each survey was corrected and contoured in the field using a portable P.C. The resulting contour plots are shown in Appendix 2. The ground magnetic contour plot may differ significantly from the airborne magnetic intensity plot. This is due to the wide flight line spacing of the airborne data inhibiting accurate anomaly definition.

2.2 Heavy Mineral Sampling of Magnetic Anomalies

At anomalies MW03 and MW15 20 litres of -1.0 + 0.3 mm loam material was collected within a 100 metre radius of the magnetic anomaly centre. The sample numbers used were X4993 (MW03) and X4994 (MW15).

These samples are in Whyalla waiting treatment and examination for diamonds and kimberlitic indicators.

2.3 Reconnaissance Sampling

A reconnaissance loam sampling programme was performed to locate kimberlitic indicators and possibly provide areas of interest for further exploration.

A method of continuous loam sampling was employed whereby individual loam sites were selected at 1 kilometre intervals along the verges of roads and several adjacent sites were grouped together under one sample number. At each site 10 litres of -1.0 + 0.3 mm material was collected.

A total of 51 samples were collected (Maps 3 and 4) using the following numbers : X3285 - X3300, X4997 - X5000, X5098, X5381 - X5400, X5692 - X5694, X5697 - X5700, X5877 - X5879.

3 DRILLING PROGRAMME

As mentioned in the previous quarterly report anomalies MW18 and MW19 were investigated as part of a larger drilling programme.

3.1 Legal

Permission to conduct drilling was obtained from SADME. The programme was approved upon the condition that holes which penetrated both the Tertiary sand and Bridgewater aeolianite aquifers were abandoned with an approved grout.

Permission for access was obtained from the relevant landholders.

A contract for the drilling programme was awarded to Thompson Drilling to provide a rotary air/mud drilling rig for the job.

3.2 Drilling Programme

Drill hole 21 was drilled at grid coordinates 5000E/4975N to intersect MW19 (Map 4). At 48 m the hole was completed in granite. No anomalous magnetic susceptibilities were encountered.

Drill hole 22 was drilled at grid coordinates 4900E/4575N to intersect MW18 (Map 4). At 58 m the hole was completed in Banded Iron Formation. Associated susceptibilities of around 1600 x 10 SI units show the BIF to be the source of MW19.

Drill logs are contained in Appendix 3.

3.3 Heavy Mineral Sampling

Samples of drill cuttings were collected at 2 metre intervals. Sample numbers Z8592 - Z8644 were used as shown on the drill logs.

All samples were treated and examined for kimberlitic indicators. Only 2 samples proved to be positive :

Z8642 contained : 1 kimberlitic spinel

Z8644 contained : 1 kimberlitic spinel
: 1 kimberlitic ilmenite

4 STAFF

Staff employed in the field programme were :

Geologists	3
Field Assistants	5

The project has been supported by the facilities of the Regional Office in Whyalla, the personnel and facilities of the research/technical department and Head Office in Melbourne.

5 EXPENDITURE

Expenditure of $ 45,226 has been allocated as shown in Table 2.

S. Potter

S D Potter
Staff Geologist
Whyalla

H R Robison
Chief Geologist South

Table 1 : AML Co-ordinates of 5000E/5000N Pegs for Completed Anomalies

ANOMALY	CO-ORDINATE	
MW03	535474E	6325920N
MW13	540724E	6300495N
MW15	533712E	6294682N

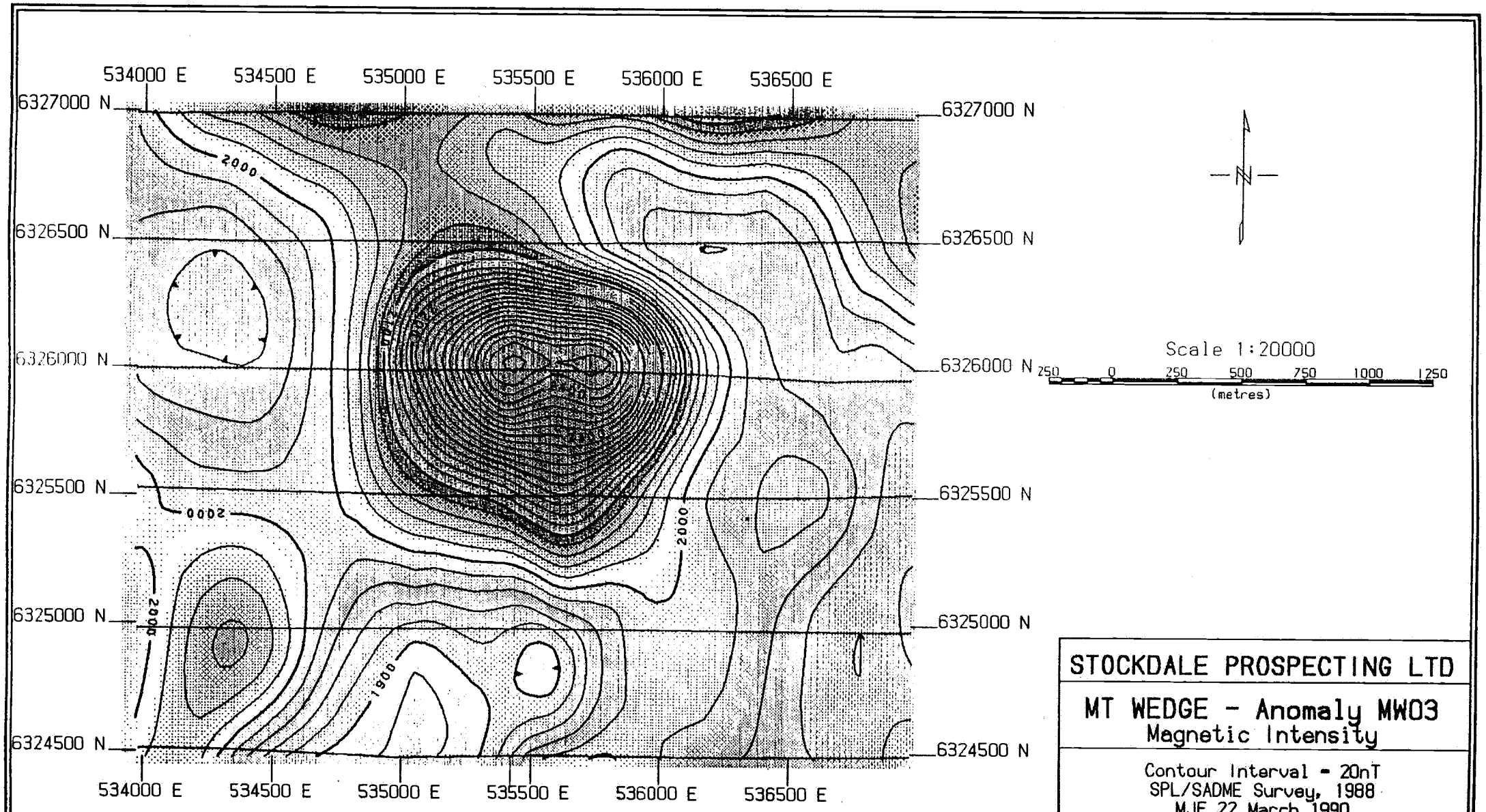
Table 2 : Expenditure Report for EL 1527 : Mt Wedge
Period Ending 31 September 1990

000030

	$
OPERATIONAL STAFF COSTS	17 975
GENERAL OPERATING EXPENSES	342
TRANSPORT AND TRAVEL	1 944
CENTRAL TREATMENT PLANT	2 255
LABORATORY :	
TREATMENT	280
EXAMINATION	590
SPECIALIST SERVICES:	
MINERALOGY	750
COMPUTING	295
GEOPHYSICS	9 312
DRAFTING	763
OTHER	560
ADMINISTRATION:	
REGIONAL OFFICE	4 762
HEAD OFFICE	3 978
CAPITAL UTILISATION	1 420
TOTAL THIS PERIOD	$ 45 226
TOTAL PREVIOUSLY REPORTED	95 399
TOTAL EXPENDITURE TO DATE	$ 140 625

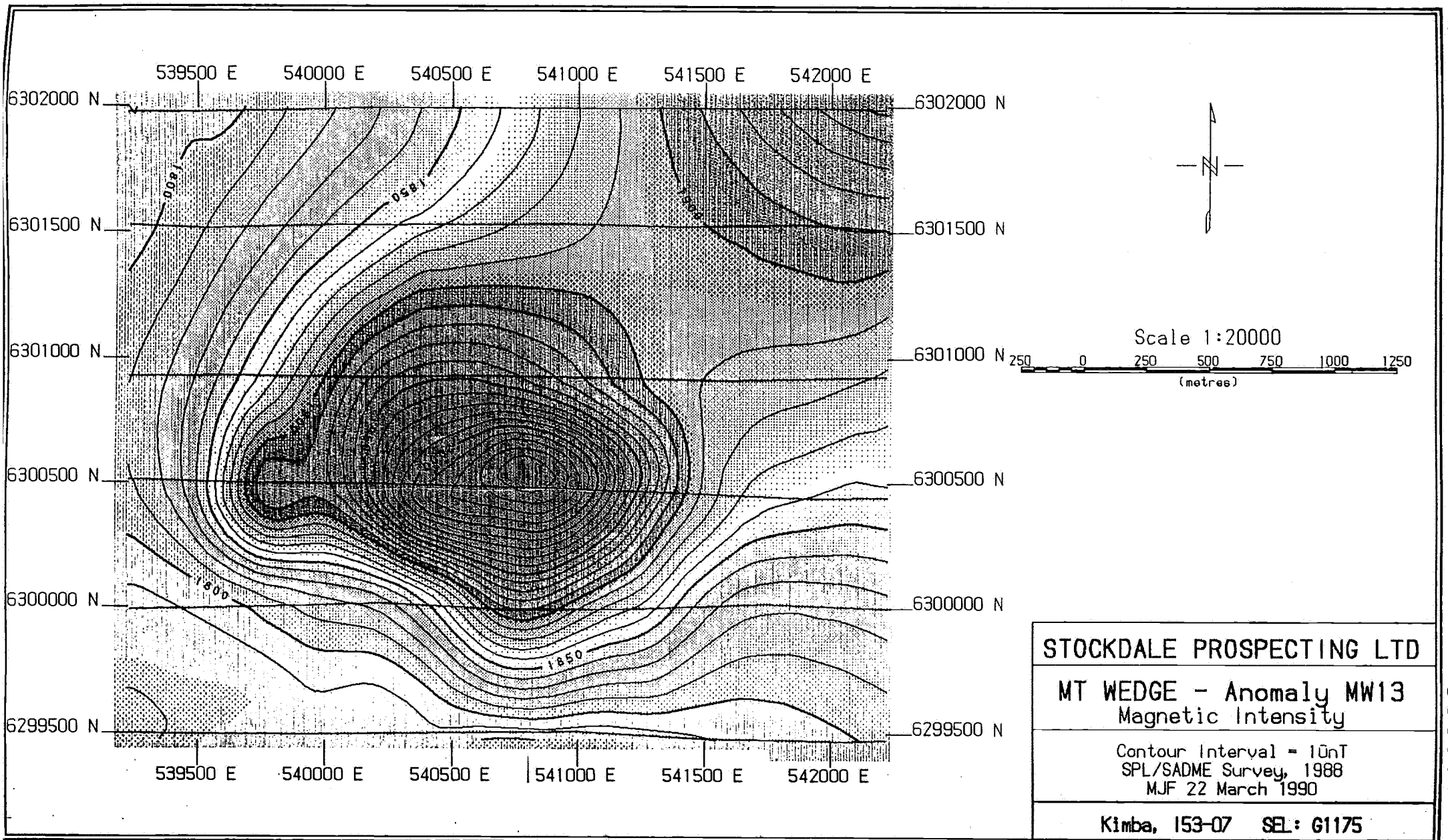
APPENDIX 1

Magnetic Intensity Plot for Completed Anomalies - Airborne Data



STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW03 Magnetic Intensity
Contour Interval = 20nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: 61165

000092



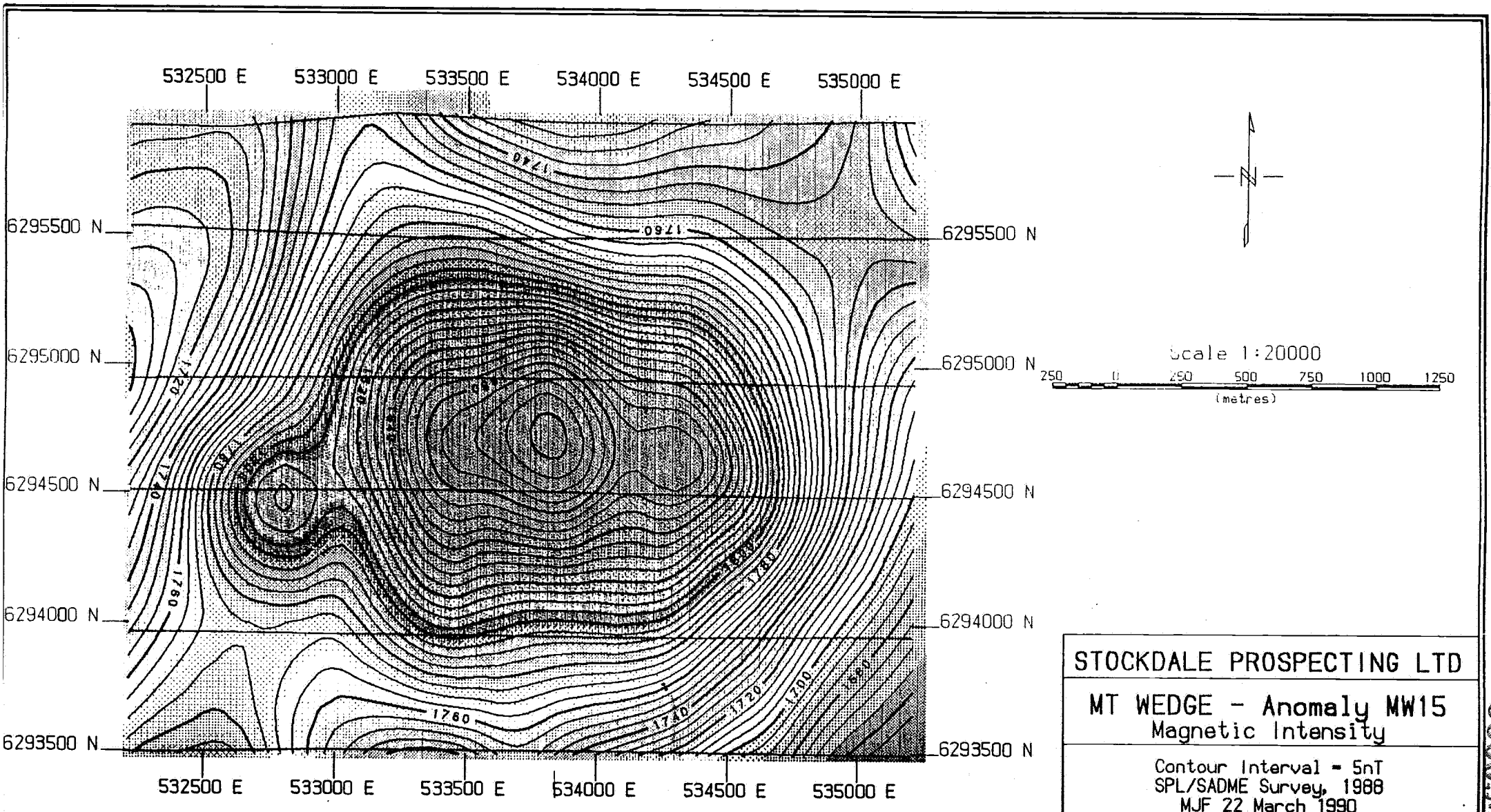
STOCKDALE PROSPECTING LTD

MT WEDGE - Anomaly MW13
Magnetic Intensity

Contour Interval = 10nT
SPL/SADME Survey, 1988
MJF 22 March 1990

Kimba, 153-07 SEL: G1175

000093

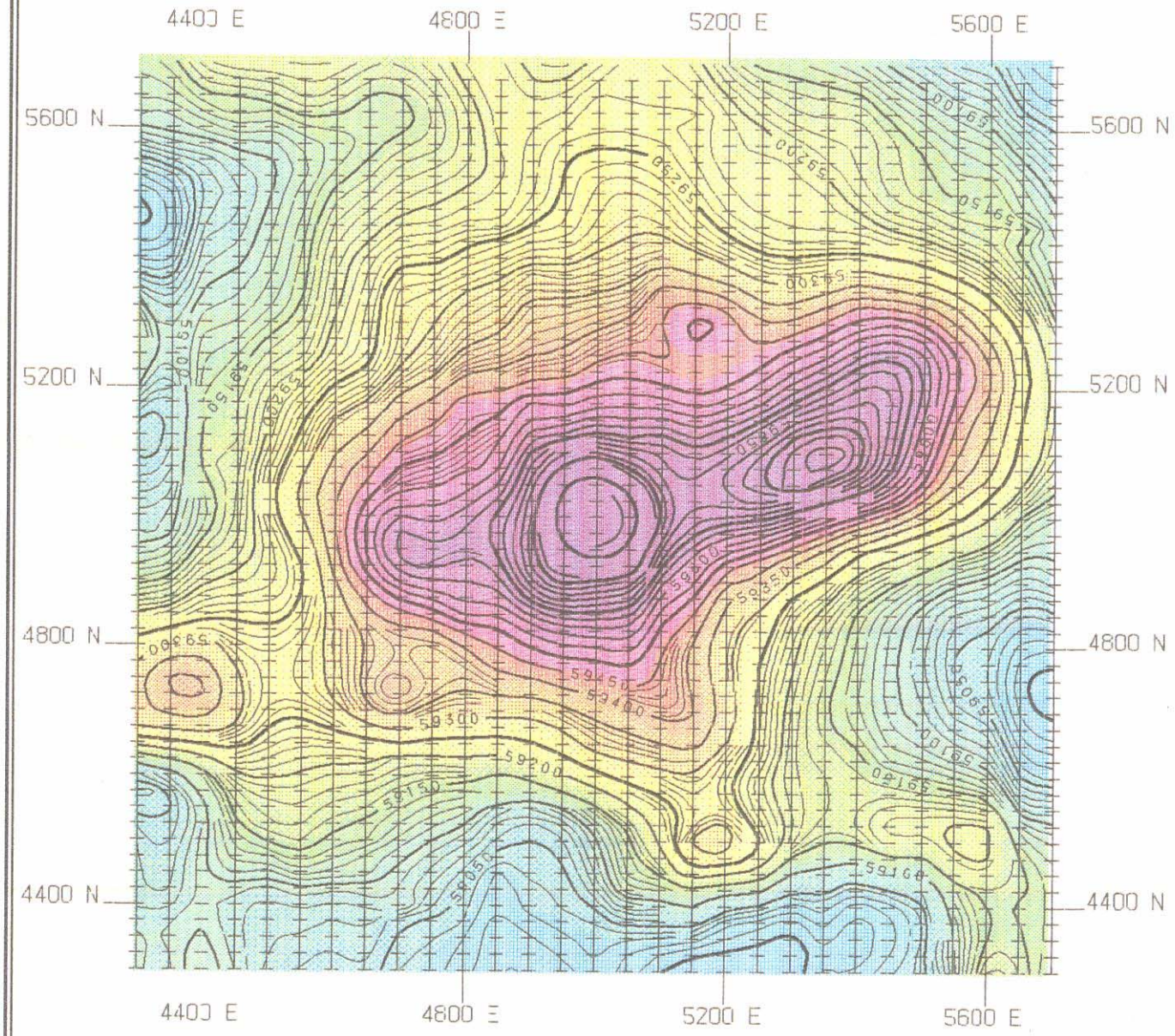


STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW15 Magnetic Intensity
Contour Interval = 5nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1177

APPENDIX 2

Magnetic Intensity Plot for Completed

Anomalies - Ground Data



Scale 1:10000

100 0 100 200 300 400 500

(metres)

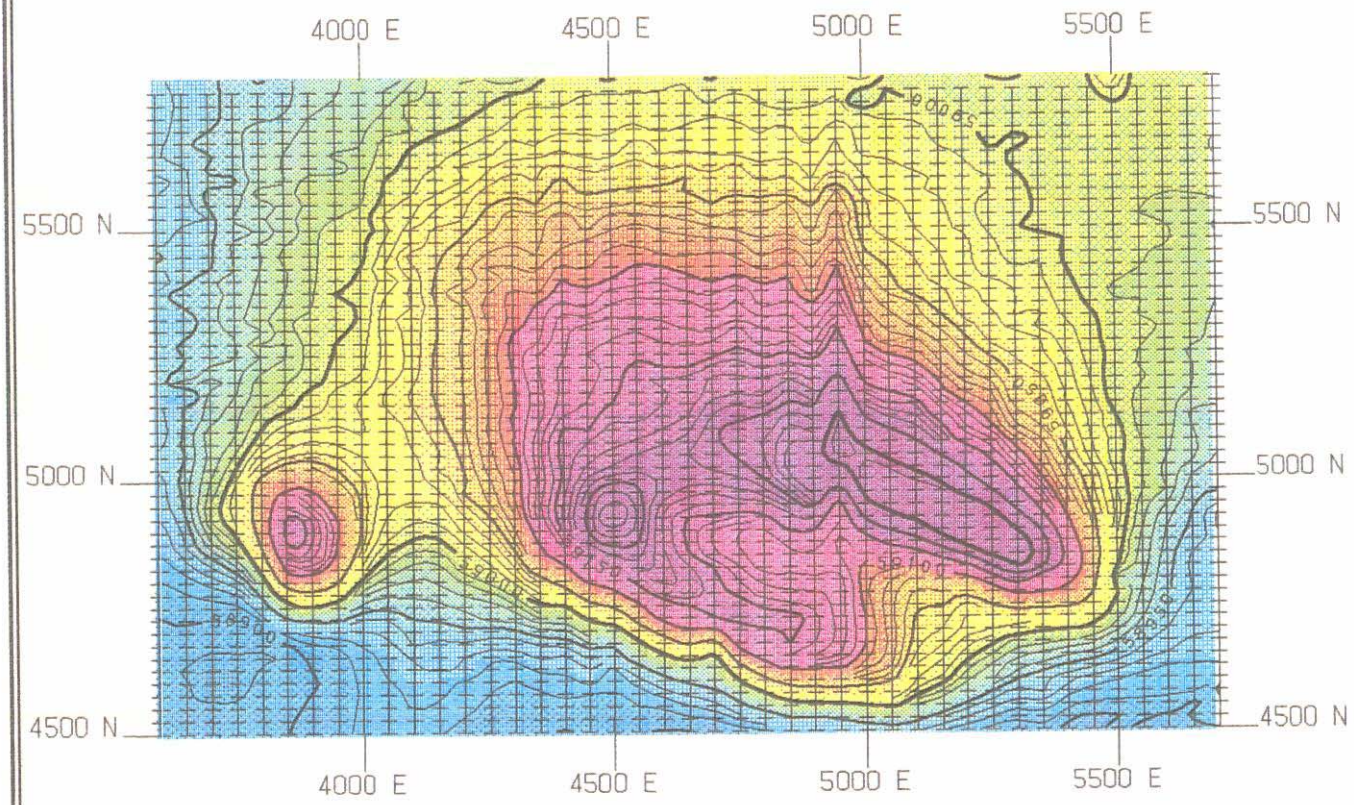
STOCKDALE PROSPECTING LTD

MT WEDGE PROJECT
MW03 GROUND MAGNETICS

CONTOUR INTERVAL: 10
SEPTEMBER, 1990
AMW

KIMBA 1:250000 SEL:

000090



Scale 1:15000

250 0 250 500 750 1000

(metres)

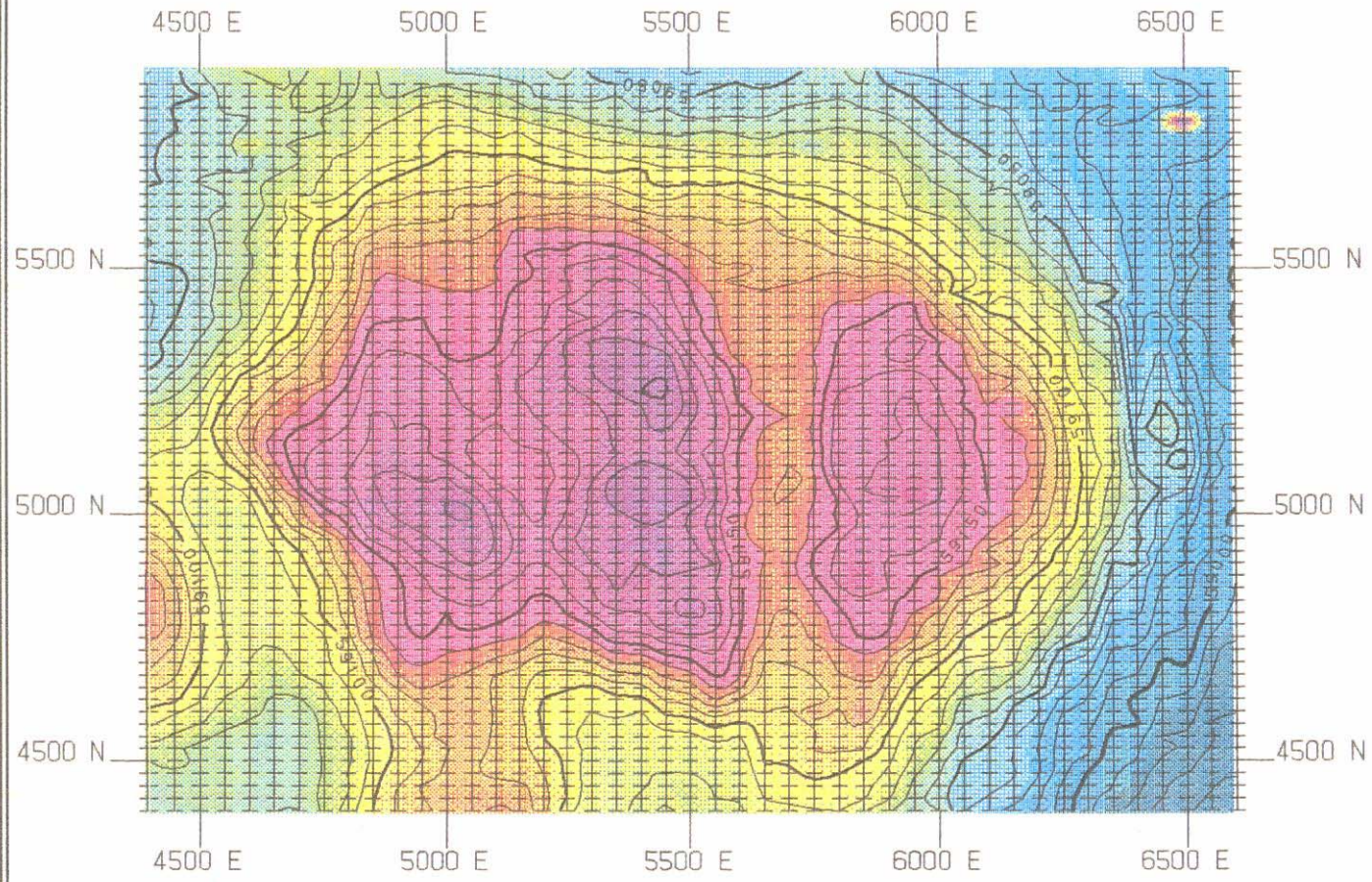
STOCKDALE PROSPECTING LTD

EL 1527 : MT WEDGE

MW13 Ground Magnetics

Contour Interval = 10 nT

Map 3 SEL:



Scale 1:15000

250 0 250 500 750 1000

(metres)

STOCKDALE PROSPECTING LTD
EL 1527 : MT WEDGE MW15 Ground Magnetics
Contour Interval = 10 nT .c2. .c3.
Map 4 SEL:

000098

APPENDIX 3

Drill Logs for MW18 and MW19

000100

STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page of 1/2

PROJECT MOUNT WEDGE AREA NW 19 Drillhole type MUD

CO-ORDS 5000E 4975N DEC LN AZIMUTH VERT RL DH No. 21

DATE COMMENCED 2/6/90 DATE COMPLETED 2/6/90 DRILLED BY THOMPSONS DRILL RIG R4

Non Coring to: 48m HQ Core to: NQ Core to: BQ Core to: EOH 48m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS (x10⁻³ SI)
0	2	CALCARENITE Qpb	CALCARENITE CHIPS CALCAREOUS SAND	Z8592	9-19
2	4	CALCARENITE CLAY Qpb	50% CALCARENITE CHIPS 50% RED/BROWN CLAY	Z8593	12-17
4	6	CALCAREOUS CLAYS Qpb	25% CALCARENITE CHIPS 75% FAWN CLAYS	Z8594	17-21
6	8	"	20% CALCARENITE CHIPS 20% RED-FAWN + BROWN SILT 60% FAWN-BROWN CLAY?	Z8595	8-11
8	10	CALCAREOUS SANDS Qpb	50% CALCARENITE CHIPS 40% MEDIUM FINE QTS SANDS 10% FAWN SILTS + CLAYS	Z8596	3-7
10	12	"	10% CREAM CLAY 15% CALCARENITE CHIPS 75% MEDIUM-FINE QTS SANDS	Z8597	2-5
12	14	"	15% CALCARENITE CHIPS 85% FINE QTS SANDS	Z8598	1-5
14	16	SANDY CLAY Tep	40% FINE QTS SANDS 60% WHITE CLAY - KAOLIN?	Z8599	1-3
16	18	"	60% WHITE CLAY - KAOLIN? 10% MUDSTONE/SANDSTONE CHIPS 30% FINE-MEDIUM QTS SANDS	Z8600	5-6
18	20	"	80% WHITE CLAY - KAOLIN 20% MEDIUM-FINE TO COARSE QTS SANDS	Z8601	3-5
20	22	"	70% WHITE CLAY - KAOLIN 30% FINE TO MEDIUM QTS SANDS	Z8602	6-7
22	24	"	70% WHITE CLAY - KAOLIN 30% RED + WHITE + CLEAR FINE QTS SANDS	Z8603	4
24	26	"	30% WHITE CLAY - KAOLIN 30% FINE QTS SANDS 60% CREAM SILT.	Z8604	3-5
26	28	"	40% WHITE CLAY - KAOLIN 20% CREAM SILTS 40% FINE QTS SANDS	Z8605	3-4

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page of 2/2

PROJECT MOUNT WEDGE AREA MW19 Drillhole type MUD

CO-ORDS 5000E 44 · DEC^LN AZIMUTH VERT RL DH No. 21

DATE COMMENCED 2/6/90 DATE COMPLETED 2/6/90 DRILLED BY THOMPSONS DRILL RIG R4

Non Coring to: 48m HQ Core to: NQ Core to: BQ Core to: EOH 48m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
28	30	UNCONSOLIDATED QTZ SANDS Tcp	60% RED BROWN FINE SANDS 30% WHITE - CREAM CLAY - K 10% CREAM SILTS	Z8606	3-5
30	32	"	70% MEDIUM FINE RED QTZ SANDS ANGULAR 20% CREAM CLAY - KAOLIN 10% CREAM SILTS	Z8607	6
32	34	WEATHERED BASEMENT GRANITE	50% GRANITIC CHIPS - QTZ/FELDSPAR/BIOTITE 40% FINE QTZ SANDS 10% CREAM KAOLIN CLAYS	Z8608	13-28
34	36	"	60% GRANITIC CHIPS 30% FINE QTZ SANDS 10% CREAM CLAYS	Z8609	44-48
36	38	"	10% QTZ SANDS 40% CREAM CLAYS + SILTS 50% GRANITIC CHIPS, ANGULAR QTZ/FELDSPAR	Z8610	8-21
38	40	"	80% GRANITIC CHIPS, QTZ, feldspar, BIOTITE 20% FINE QTZ SANDS	Z8611	43-45
40	42	"	85% GRANITIC FRAGMENTS QTZ/FELDSPAR BIOTITE 15% QTZ SANDS	Z8612	12-28
42	44	"	80% GRANITIC CHIPS 5% GREEN CHLORITIZED CLAYS 15% QTZ ANGULAR SANDS	Z8613	39-42
44	46	"	10% CREAM GREEN CLAYS 90% GRANITIC CHIPS QTZ/FELDSPAR BIOTITE	Z8614	31-56
46	48	GRANITE	5% SILTS 95% FRESH GRANITIC CHIPS, QTZ, FELDSPAR, BIOTITE	Z8615	45-51
			E.O.H. GRANITE		

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 3

PROJECT MOUNT WEDGE AREA MW18 Drillhole type MUD

CO-ORDS 4900E/4575N DEC^LN AZIMUTH VERT RL DH No. 22

DATE COMMENCED 2/6/90 DATE COMPLETED 2/6/90 DRILLED BY THOMPSONS DRILL RIG R4

Non Coring to: 58m HQ Core to: NQ Core to: BQ Core to: EOH 58m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS (x10⁻³ SI)
0	2	CALCARENITE Qp6	CALCARENITE CHIPS FAWN/GREEN SILTS.	Z8616	36-60
2	4	CALCAREOUS SILTS Qp6	25% CALCARENITE CHIPS 75% CALCAREOUS SILTS	Z8617	27-29
4	6	"	15% CALCARENITE CHIPS 85% CALCAREOUS SILTS + SANDS.	Z8618	16-18
6	8	"	20% CALCARENITE CHIPS 80% CALCAREOUS SILTS + SANDS	Z8619	11-13
8	10	CALCARENITE Qp6	70% CALCARENITE CHIPS 30% FAWN SILTS	Z8620	9-14
10	12	CALCAREOUS SILTS Qp6	10% CALCARENITE CHIPS 90% FAWN SILTS	Z8621	14-19
12	14	"	25% CALCARENITE CHIPS 75% FAWN SILTS	Z8622	9-11
14	16	UNCONSOLIDATED QTS SANDS Tep	20% CALCARENITE CHIPS 70% RED QTS SANDS 10% RED-FAWN SILTS	Z8623	7-10
16	18	"	10% CALCARENITE CHIPS 80% RED MEDIUM FINE QTS SANDS	Z8624	7-8
18	20	"	10% SANDSTONE CHIPS 90% MEDIUM FINE RED QTS SANDS	Z8625	7
20	22	"	50% FINE RED SANDS 50% MEDIUM COARSE CLEAR QTS SANDS	Z8626	6-8
22	24	"	20% SANDSTONE CHIPS WHITE 80% MEDIUM COARSE QTS SANDS	Z8627	5-6
24	26	"	10% SANDSTONE CHIPS WHITE 90% MEDIUM COARSE QTS SANDS	Z8628	2-4
26	28	"	10% WHITE SANDSTONE CHIPS 10% RED FINE SILT 80% MEDIUM COARSE QTS SANDS	Z8629	5-11

SCALE: GEOLOGIST: DATE:

000103

STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page of 2/3

PROJECT MOUNT WEDGE AREA M. W18 Drillhole type MUD

CO-ORDS 4900E/4575N DEC LN AZIMUTH VERT RL DH No. 22

DATE COMMENCED 2/6/90 DATE COMPLETED 2/6/90 DRILLED BY THOMPSONS DRILL RIG R4

Non Coring to: 58m HQ Core to: NQ Core to: BQ Core to: EOH 58m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS (x10⁻⁵ SI)
28	30	UNCONSOLIDATED QTZ SANDS CARBONACEOUS top	20% WHITE CLAY 10% BLACK CARBONACEOUS MUD 70% MEDIUM COARSE QTZ SANDS	Z8630	4-5
30	32	"	20% CARBONACEOUS MUD 15% YELLOW TO CREAM CLAYS 65% MEDIUM COARSE QTZ SANDS	Z8631	3-5
32	34	CARBONACEOUS CLAYS + SANDS top	80% BLACK CARBONACEOUS CLAYS + MUD 10% FINE QTZ SANDS 10% LIGNITE - BROWN	Z8632	3-6
34	36	"	80% BLACK CARBONACEOUS CLAYS 20% FINE QTZ SANDS	Z8633	7-21
36	38	"	20% FINE QTZ SANDS 80% BLACK CARBONACEOUS CLAYS	Z8634	4-5
38	40	"	35% MEDIUM-FINE QTZ SANDS 65% BLACK CARBONACEOUS CLAY	Z8635	7-9
40	42	"	70% MEDIUM COARSE QTZ SANDS 20% BLACK CARBONACEOUS CLAY 10% CREAM TO GREY CLAY	Z8636	6-9
42	44	"	30% BLACK CARBONACEOUS CLAY 70% MEDIUM COARSE QTZ SANDS	Z8637	2-10
44	46	"	90% COARSE QTZ SANDS 10% BROWN CARBONACEOUS SILTS	Z8638	1-2
46	48	"	25% WHITE CLAY 10% BROWN CARBONACEOUS SILT 65% COARSE QTZ SANDS	Z8639	4
48	50	"	10% CARBONACEOUS CLAY 20% WHITE CLAY 70% COARSE QTZ SANDS	Z8640	2
50	52	"	10% CARBONACEOUS MUD 10% WHITE CLAY 80% ANGULAR QTZ SANDS / CHIPS	Z8641	8-13
52	54	WEATHERED BASEMENT	10% GREEN CLAY 10% DARK MAFICS ? 10% CARBONACEOUS MATERIAL 70% ANGULAR QTZ - COARSE	Z8642	7-18
54	56	"	5% SILVER MICAS - MUSCOVITE 20% BLACK/GREEN CLAY 70% ANGULAR QTZ + FELDSPAR (GRANITIC ?) 5% BIOTITE ?	Z8643	216-253

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page of 3/3

PROJECT MOUNT WEDGE AREA MW18 Drillhole type MJD

CO-ORDS 4900E / 4575N DEC^{LN} AZIMUTH VERT RL DH No. 27

DATE COMMENCED 2/6/90 DATE COMPLETED 2/6/90 DRILLED BY THOMPSONS DRILL RIG R4

Non Coring to: 58m HQ Core to: NQ Core to: BQ Core to: EOH 58m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
56	58	GRANITE / BIF.	HIT HARD BAND OF FERRUGINOUS SEAMENTS B.I.F. 50% GREEN AMPHIBOLES 5% GRANITIC QTZ + FELDSPAR + BIOTITE 45%.	Z8644	(FIO-5 SE) 1500 -1650
			E.O.H. B.I.F SEDIMENTS		
			HIT		

SCALE: GEOLOGIST: DATE:

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

SAMPHIRE FLAT

33°10'

COCATA HILL

E.L. 1527

COCATA CONSERVATION PARK

WARRAMBOO

N

33°20'

MT. WEDGE

33°30'

BARWELL CONSERVATION PARK

LOCK

135°40'

133°30'

138°

32°

CLEVE

1527

SOUTHERN OCEAN

35°

0 5 10 15kms.

MAP 1

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 **LOCALITY MAP** **EXPLORATION LICENCE 1527** **MT WEDGE**	Compiled PDW Drawn ADS Date JANUARY'89 Scale 1:250,000 Revised SEL 3539

DAMPER 1:100 000 | KOPI 1:100 000

WUDINNA

SURVEY OUTLINE

EYRE HWY.

KYANCUTTA

MT DAMPER

SWAMP

MAJOR BASEMENT FAULT

MW 01

SLEAFORD COMPLEX OUTCROP

MW 02

UNDERLYING ARCHEAN BASEMENT AP's SLEAFORD COMPLEX

PORDIA HILL (HILTABA GRANITE OUTCROP)

MW 06

MW 07

UNCONTITCHE HILL (HILTABA GRANITE OUTCROP)

MW 03

MW 08

MW 04

PINTHYPUT HILL

UNDERLYING PROTEROZOIC BASEMENT HILTABA SUITE Pyb

WARRAMBOO

MW 05

MW 20

Qho MOORNABA SAND

Qpb BRIDGE WATER FORMATION

AEOLIAN CALCARENITE

MW 09

MW 10

MW 12

MW 11

MW 13

MW 16

MW 14

MW 15

MW 17

MW 18

MW 19

DYKE ?

Pcb Conglom.

ELLISTON TROUGH

POLDA TROUGH

MT WEDGE

F FAULTS (MAJOR)

f FAULTS

INFERRED DYKES

ROADS

EDGE OF ELLISTON (BLUE RANGE BEDS)

SUB-OUTCROPPING/BLUE RANGE BEDS (CONGLOMERATE WITH HIGH K AND Th LEVELS)

P OUTCROPPING PROTOZOIC GRANITES

A OUTCROPPING ARCHEAN GRANITES

Qhb / Qpb BOUNDARY BETWEEN EXPOSED BRIDGEWATER FORM. AND NTH. SAND CLAY COVER

MW 05 ANOMALY

NOTE : AMG's DERIVED FROM PHOTO ENLARGED IMAGE AND ARE SUBJECT TO E-W / N-S ERROR

LOCATION MAP

DAMPER KOPI SHERINGA TOOLIGIE

KIMBA 153-7 WHYALLA 153-8

MAP 2

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 MT WEDGE AIRBOURNE GEOPHYSICAL INTERPRETATION	Compiled FWA Drawn ADS Date 3/90 Scale 1:250 000 Revised SEL 3804

8087-2

LAKE YAMMEE

Avoca

EYRE

WUDINNA

LAKE WAMBAMANA

SAMPHIRE FLAT

MT DAMPER

PORDIA HILL

UCONTITCHIE HILL

COCATA HILL

Temdamura

Gum Flat

MT WEDGE

Mo[illegible]wedge

Billabowie

Whitewell

X5700 X5877 X5878 X5400 X5422(L) X4997 X4998 X4999 X5000 X5696 X5098 X5099 X5697 X5698 X5100 X5399 X5398 X5394 X5879 X5397 X5699 X5381 X5382 X3285 X5396 X5395 X5383 X3286 X5393 X5392 X5384 X3299 X3287 X5391 X5385 X5386 X3300 X3288 X5390 X5387 X5389 X5388 X5692 X3289 X3298 X3290 X3291 X3297 X3295 X3296

E.L. 1527

138°00' 00 10 10' 20 30 20' 40 138°30'
33°00' 33°00'
40 40
10' 30 30 10'
20 20
20' 10 10 20'
630000mE
33°30' 00 135°00'
5000mE
0 20 30 20 40 33°30' 138°30'

2 0 2 4 6 8 10 12 kms

NO. OF BAGS
I (2) IV — SAMPLE ORDER
X5879

134°30' 136° 33° 34° DAMPER 5951

STOCKDALE PROSPECTING LIMITED

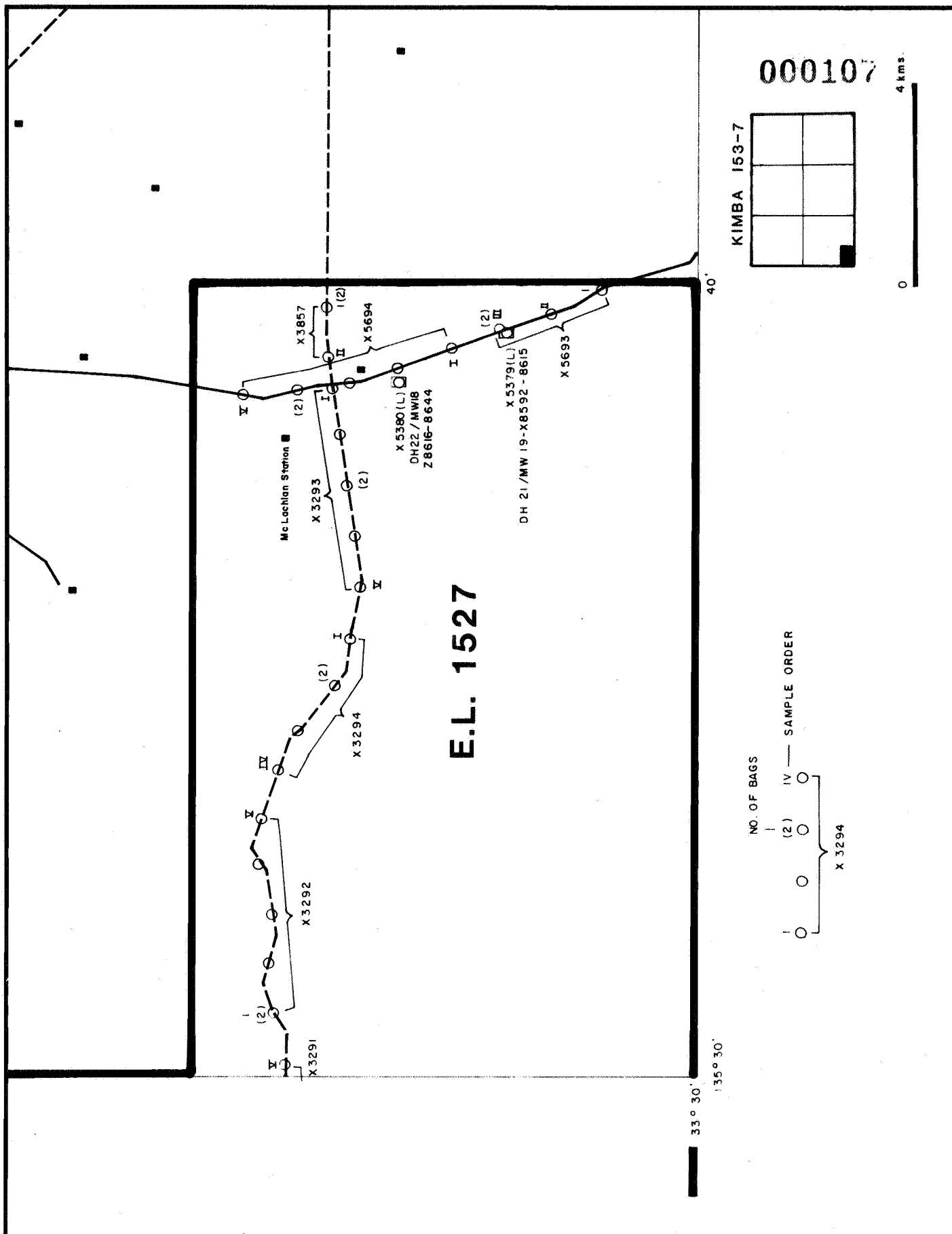
SOUTH AUSTRALIA
ISA-7 KIMBA
DAMPER 1:100 000

CURRENT SAMPLING

Compiled
Drawn
Date
Scale 1:100 000
Revised
SEL. 3971

MAP 2

8087-2



MAP 4

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 KOPI 1:100 000 CURRENT SAMPLING	Compiled HRR Drawn ADS Date NOV '90 Scale 1:100 000 Revised SEL 3972

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

NINTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 JANUARY 1991

000103

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE NINTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 JANUARY 1991

Edited: F M GAUNT

Author/s: S D POTTER

Approved: H R ROBISON

Date: JANUARY 1991

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 2 Plan Nos.: 2 Table Nos.: 2 Appendices: - Plates: -

Keywords: HEAVY MINERAL SAMPLES

Abstract: During this quarter the reconnaissance loam sampling programme was completed and the results from this work were received.

Copy to: SADME, WHYALLA, IC

Ref: SDP61

Circulate to:

CONTENTS

MAPS

TABLES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

NINTH QUARTERLY REPORT TO 11 JANUARY 1991

1 INTRODUCTION

Exploration Licence No. 1527 is located on the north western Eyre Peninsula about 2 kilometers south of Wudinna on the Kimba 1:250,000 sheet (Map 1).

During this quarter 1 reconnaissance loam sample was collected and results from the sampling programme were received

2 FIELD WORK

2.1 Reconnaissance Sampling

The reconnaissance loam sampling initiated in the previous quarter was completed with the collection of one sample (X4995, Map 2). The sample consisted of 50 litres of -1.0 + 0.3 mm material.

3 RESULTS

Results for the reconnaissance sampling programme have been received and are displayed on Table 1.

4 FORWARD WORK PROGRAMME

A study of sample results and airborne magnetics will be performed in order to determine the next phase of exploration.

5 STAFF

Staff employed in the field programme were :

Geologists	1
Field Assistants	4

The project has been supported by the facilities of the Regional Office in Whyalla, the personnel and facilities of the research/technical department and Head Office in Melbourne.

6 EXPENDITURE

Expenditure of $ ~~67,857~~ $63 877 has been allocated as shown in Table 2.

S. Potter

S D Potter
Staff Geologist
Whyalla

H R Robison
Chief Geologist South

Table 1 : Reconnaissance Sampling Results

SAMPLE	RESULT
X3285 - X3287	negative
X3288	1 kimberlitic garnet
X3289	2 kimberlitic garnets
X3290 - X3295	negative
X3296	1 kimberlitic garnet
X3297 - X3298	negative
X3299	1 kimberlitic garnet
X3300	1 kimberlitic garnet
X4995 - X4998	negative
X4899	1 kimberlitic spinel
X5000	negative
X5098	negative
X5381 - X5385	negative
X5386	3 kimberlitic garnets
X5387 - X5391	negative
X5392	3 kimberlitic garnets
X5393 - X5400	negative
X5692	2 kimberlitic ilmenites
X5693 - X5694	negative
X5697	1 kimberlitic ilmenite
X5698	1 kimberlitic spinel
X5699 - X5700	negative
X5877 - X5879	negative

Table 2 : Expenditure Report for EL 1527 : Mt Wedge
Period Ending 30 December 1990

	$
OPERATIONAL STAFF COSTS	23 527
GENERAL OPERATING EXPENSES	1 258
TRANSPORT AND TRAVEL	2 725
CONTRACTORS	375
CENTRAL TREATMENT PLANT	11 409
LABORATORY :	
TREATMENT	920
EXAMINATION	1 783
SPECIALIST SERVICES:	
COMPUTING	66
GEOPHYSICS	2 858
DRAFTING	1 500
ADMINISTRATION:	
REGIONAL OFFICE	9 074
HEAD OFFICE	5 677
CAPITAL UTILISATION	2 705
TOTAL THIS PERIOD	$ 63 877
TOTAL PREVIOUSLY REPORTED	140 625
TOTAL EXPENDITURE TO DATE	$ 204 502

135°20'

135°40'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

WARRAMBOO

SAMPHIRE FLAT

33°10'

33°20'

33°30'

COCATA HILL

MT. WEDGE

E.L. 1527

COCATA CONSERVATION PARK

BARWELL CONSERVATION PARK

LOCK

N

133°30'

138°32'

CLEVE

1527

SOUTHERN OCEAN

35°

0 5 10 15kms.

MAP 1

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

KIMBA 153-7

LOCALITY MAP
EXPLORATION LICENCE 1527
MT WEDGE

Compiled	PDW
Drawn	ADS
Date	JANUARY '89
Scale	1:250,000
Revised	
SEL 3539	

8087-2

LAKE YAMMEE

Avoca

EYRE

WUDINNA

LAKE WAMBAMANA

SAMPHIRE FLAT

MT DAMPER

PORDIA HILL

UCONTITCHIE HILL

COCATA HILL

Temdamura

Gum Flat

MT WEDGE

Mo[illegible]wedge

Billabowie

Whitewell

X5700 X5877 X5878 X5400 X5422(L) X4997 X4998 X4999 X5000 X5696 X5098 X5099 X5697 X5698 X5100 X5399 X5398 X5394 X5879 X5397 X5699 X5381 X5382 X3285 X5396 X5395 X5383 X3286 X5393 X5392 X5384 X3299 X3287 X5391 X5385 X5386 X3300 X3288 X5390 X5387 X5389 X5388 X5692 X3289 X3298 X3290 X3291 X3297 X3295 X3296

E.L. 1527

138°00' 00 10 10' 20 30 20' 40 138°30'
33°00' 33°00'
40 40
10' 30 30 10'
20 20
20' 10 10 20'
630000mE
33°30' 00 135°00'
5000mE
0 20 30 20 40 33°30' 138°30'

2 0 2 4 6 8 10 12 kms

NO. OF BAGS
I (2) IV — SAMPLE ORDER
X5879

134°30' 136° 33° 34° DAMPER 5951

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
ISA-7 KIMBA
DAMPER 1:100 000

CURRENT SAMPLING

Compiled
Drawn
Date
Scale 1:100 000
Revised
SEL. 3971

MAP 2

8087-2

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

TENTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 APRIL 1991

000117

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE TENTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 APRIL 1991

Edited: F M GAUNT

Author/s: M S MITCHELL

Approved: H R ROBISON

Date: APRIL 1991

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 2 Plan Nos.: 3 Table Nos.: 2 Appendices: 2 Plates: -

Keywords: DRILLING, GEOCHEMISTRY.

Abstract: During this quarter eight ground magnetic targets were drilled. No recognisable kimberlitic type rocks were intersected. Geochemical results from the 1990 drilling programme were received, no kimberlitic signatures were observed.

Copy to: SADME, WHYALLA, IC

Ref: MSM34

Circulate to:

CONTENTS

MAPS

TABLES

APPENDICES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

TENTH QUARTERLY REPORT TO 11 APRIL 1991

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula about 2 kilometres south of Wudinna on the Kimba 1:250,000 sheet (Map 1).

During this quarter eight ground magnetic targets were drilled. A total of 15 holes were drilled to basement, except one which had to be abandoned; all holes failed to intersect any recognisable kimberlitic type rocks.

Geochemical results from the 1990 drilling programme were received during this quarter.

2 FIELD WORK

2.1 Drilling Programme

A total of 15 holes (838 metres) were drilled into 8 ground magnetic anomalies. The tenth hole (MW10) had to be abandoned due to unconsolidated Tertiary sands caving in the hole and jamming the drill rods. Only two of the magnetic anomalies were explained MW04 and MW20, the magnetic sources for the remainder of the anomalies were not explained and probably lie within the basement.

Drill chip samples were collected every 2 metres and will be treated and examined for kimberlitic indicators. Geochemical samples were taken form the bottom of the hole and will be analysed for a kimberlitic suite of elements.

Drilling details are listed on Table 1.

3 RESULTS

Results from the bottom of the hole geochemical samples from the 1990 drilling programme became available and are listed in Appendix 1. No kimberlitic signatures were observed.

All results from the 1991 drilling are outstanding for this quarter.

4 FORWARD WORK PROGRAMME

The remaining 10 airborne magnetic anomalies MW02, 06, 08, 09, 11, 14, 17, 21, MH116 and MH118 are to be ground magnetically surveyed and evaluated for drilling. (Locations on Map 2).

5 STAFF

Staff employed in the field programme were :

Geologists	1
Field Assistants	4

The project has been supported by the facilities of the Regional Office in Whyalla, the personnel and facilities of the Research/Technical department and Head Office in Melbourne.

6 EXPENDITURE

Expenditure of $41,775 has been allocated as shown in Table 2.

M S Mitchell
Senior Geologist
Whyalla

H R Robison
Chief Geologist-South

Table 1 : Drilling Results

DRILL HOLE	DRILL PRIORITY	ANOMALY	EST. DEPTH	BASEMENT DEPTH	BASEMENT	SUSCEPT. (x10^-5SI)	
1	3	MW01	50m	36m	Granite	21	
2	3	MW01	50m	32m	Granite	17	
3	-	MW04	100m	36+1m*	Granodiorite	400	
4	2	MW03	100m	58m	Granite	5	
5	2	MW03	100m	44m	Granite	9	
6	-	MW20	120m	66m	Metasediment	2050	
7	-	MW20	120m	80m	Granite	37	(78@74m)
8	-	MW20	120m	66m	Granite	38	
9	3	MW05	100m	42m	Gneiss	12	
10	3	MW10	90m	42m	Abandoned	2	
11	2	MW13	70m	80m	Gneiss	17	
12	2	MW13	70m	101m	Gneiss	13	
13	2	MW13	70m	57m	Gneiss	6	
14	3	MW16	50m	50+1m*	Gneiss	60	
15	3	MW16	50m	46m	Gneiss	28	

* Basement cored

Table 2 : Expenditure Report for EL 1527 : Mt Wedge
Period Ending 31 March 1991

	$
OPERATIONAL STAFF COSTS	12 672
GENERAL OPERATING EXPENSES	1 796
TRANSPORT AND TRAVEL	1 044
CONTRACTORS : DRILLING	17 193
LABORATORY : TREATMENT	40
ADMINISTRATION:	
REGIONAL OFFICE	3 957
HEAD OFFICE	3 438
CAPITAL UTILISATION	1 635
TOTAL THIS PERIOD	$ 41 775
TOTAL PREVIOUSLY REPORTED	204 502
TOTAL EXPENDITURE TO DATE	$ 246 277

APPENDIX 1

1990 Geochemical Results

90/1005
HRSPI/90/07
X-90/4439

ANGLO AMERICAN RESEARCH LABORATORIES
X-RAY FLUORESCENCE GROUP

12-Dec-90 04:21:36
FILE: 01.12R

PAGE 4.1

000124

ANALYSIS-NO.		S/1	2/2	3/3	4/4	5/5	6/6	7/7	8/8	9/9	10/10
B.B.NO.		530791	530791	530791	530791	530791	530791	530791	530791	530791	530791
SAMPLE-NUMBER		CS 390	GS 769	BR 453	Z BA09	Z BA10	Z BA11	Z BA12	Z BA13	Z BA14	Z BA15
Ni	g/t	120	20E	24	19	10	18	19	22	9	17
Cu	g/t	106	3444C	21	-10	10	0	8	-4	12	39
Zn	g/t	53	2441C	80	86	58	49	119	72	33	127
Pb	g/t	-13	160	8	-3	12	10	7	8	-11	4
Co	g/t	42	14E	8	3	2	-7	6	1	-7	-1
Mo	g/t	-14	-4	-5	-7	-6	-8	-7	-8	-9	-8
S	%	0.0T	0.0	0.0	0.1T	0.1	0.1T	0.1	0.1	0.1T	0.1
As	g/t	61	80	-12	-8	-12	-11	-11	-11	-6	-12
Se	g/t	-8	-3	-4	-2	-3	-3	-3	-2	-2	-3
Sb	g/t	-6	21	-16	-1	-10	-5	-1	1	-6	-3
Bi	g/t	-17	8	-5	-1	-6	0	-3	-2	-2	-4
Fe	%	9.0T	6.8	3.4	10.4T	1.9	10.0T	5.0	8.4	12.2T	2.6
Mn	%	1.5T	1.1	0.8	1.8T	0.8	1.9T	1.4	1.9	1.9T	1.7
Cr	%	0.2T	0.2	0.2	0.2T	0.2	0.2T	0.2	0.2	0.2T	0.2
TiO2	%	1.2T	0.3	0.9	0.6T	0.5	0.6T	0.6	0.6	0.6T	0.5
V2O5	%	0.3T	0.3	0.3	0.3T	0.3	0.3T	0.4	0.3	0.3T	0.3
Sr	g/t	46	28	25R	93	254	95	138	99	81	98
Ba	g/t	306	458	1268G	1196G	1246G	1361G	1267G	1224G	1107G	1114G
U3O8	g/t	-1	8	12	14	16	10	11	13	15	12
ThO2	g/t	-28	19	1	-5	4	-9	-2	-4	-7	-2
U/Th		-	0.4	11.3	-	3.6	-	-	-	-	-
Sn	g/t	-29	3	-28	-19	-26	-18	-21	-14	-19	-25
MO3	g/t	3	60E	4	-7	8	-5	0	-4	-4	-5
Ta2O5	g/t	-17	47E	-7	-12	0	-26	-13	-25	-32	-23
Nb2O5	g/t	0	20	20	8	6	9	9	11	4	5
Zr	g/t	53	188	246	92	104	97	112	98	91	98
Rb	g/t	29	76	114	170	146	181	181	188	152	165
Y	g/t	35	86	37	23	23	21	23	23	40	24
P2O5	%	-0.4T	-0.2	-0.5	-0.3T	-0.5	-0.2T	-0.4	-0.3	-0.2T	-0.4
K	%	0.7T	2.5	2.4	3.0T	3.7	3.2T	3.7	3.4	3.0T	3.4
Ca	%	2.0T	1.9	2.5	0.4T	0.4	0.5T	0.6	0.5	0.4T	0.5
Te	g/t	-55	-20	-35	-19	-41	-23	-28	-23	-27	-38
F	%	0.0T	0.0	0.0	0.0T	0.0	0.0T	0.0	0.0	0.0T	0.0
SiO2	%	57.2T	74.7	67.3	49.9T	74.8	50.4T	63.7	58.6	50.5T	59.4
Al2O3	%	12.6T	12.0	12.1	10.7T	12.4	11.4T	11.9	11.8	10.6T	11.5
Mg	%	1.1T	0.1	0.5	0.4T	0.0	0.3T	0.2	0.3	0.4T	0.2
Na	%	0.0T	0.0	0.0	0.0T	0.0	0.0T	0.0	0.0	0.0T	0.0

MW19

ANALYSIS-NO.		11/11	12/12	13/13	14/14	15/15
B.B.NO.		530791	530791	530791	530791	530791
SAMPLE-NUMBER		Z BA39	Z BA40	Z BA41	Z BA42	Z BA43
Ni	g/t	0	0	7	28	16
Cu	g/t	6	-1	0	10	-36
Zn	g/t	186	104	82	208	266
Pb	g/t	9	22	30	32	6
Co	g/t	-2	-2	-4	-5	-28R
Mo	g/t	-5	-5	-7	-5	-9
S	%	0.3T	0.3	0.1	0.2	0.2
As	g/t	-10	-12	-7	-7	-12
Se	g/t	-3	-3	-3	-3	-4
Sb	g/t	-10	-8	1	9	24
Bi	g/t	-7	-5	-5	-4	-7
Fe	%	1.1T	1.2	1.3	3.0	25.9
Mn	%	0.4T	0.5	0.6	2.0	5.1
Cr	%	0.1T	0.1	0.2	0.2	0.7
TiO2	%	0.5T	0.3	0.3	0.4	0.6
V2O5	%	0.3T	0.3	0.3	0.3	0.4
Sr	g/t	18	40	63	59	22
Ba	g/t	158	305	541	330	578
U3O8	g/t	11	10	12	20	16
ThO2	g/t	-8	-7	2	-3	-28
U/Th		-	-	4.8	-	-
Sn	g/t	-32	-27	-30	-23	-31
MO3	g/t	13	9	7	10	-13
Ta2O5	g/t	-1	-5	-3	-11	-68
Nb2O5	g/t	11	2	3	10	2
Zr	g/t	118	42	49	98	36
Rb	g/t	83	157	199	155	39
Y	g/t	11	9	14	21	13
P2O5	%	-1.0T	-0.6	-0.6	-0.1	0.2
K	%	2.6T	5.3	5.7	3.7	0.8
Ca	%	0.3T	0.2	0.3	1.0	2.1
Te	g/t	-56	-43	-40	-38	-52
F	%	0.0T	0.0	0.0	0.0	0.0
SiO2	%	94.8T	87.8	77.0	75.2	30.8
Al2O3	%	11.2T	11.8	12.0	12.6	8.1
Mg	%	0.0T	0.0	-0.2	0.1	0.8
Na	%	0.0T	0.0	0.0	0.0	0.0

MW18

NOTE :-

CAUTION - Results are reported to one standard deviation detection limit.
N.D. = Not Determined. Elements marked '2' MAY be inaccurate if an undetermined element is present.
C = Result exceeds calibration limit & MAY have enhanced elements marked F. Only sections if warning is printed above.
T = Bad major elements total (<99% >110% - oxides) - Refer to columns marked %. Data relevant if all majors determined.
L = May be inaccurate due to low sample mass.

			MW18
ANALYSIS NO.		20/1	21/15
O.U.NO.		53075I	53075I
SAMPLE-NUMBER		CS 390	Z 8643
Ni	g/t	119	17
Cu	g/t	107	-37
Zn	g/t	56	259
Pb	g/t	-17	4
Co	g/t	42	-256
Mo	g/t	-13	-9
S	%	0.01	0.2
As	g/t	64	-12
Se	g/t	-7	-4
Sb	g/t	-19	27
Bi	g/t	-18	-8
Fe	%	8.9I	25.7
Mn	%	1.5I	5.3
Cr	%	0.2I	0.7
TiO2	%	1.2I	0.6
V2O5	%	0.3I	0.4
Sr	g/t	46	21
Ba	g/t	200	534
U3O8	g/t	-4	21
ThO2	g/t	-26	-30
U/Th		-	-
Sn	g/t	-33	-38
WO3	g/t	3	-6
Ta2O5	g/t	-17	-70
Nb2O5	g/t	1	0
Zr	g/t	54	35
Rb	g/t	28	40
Y	g/t	35	13
P2O5	%	-0.4I	0.1
K	%	0.7I	0.8
Ca	%	2.0I	2.7
Te	g/t	-38	-54
F	%	0.0I	0.0
SiO2	%	51.4I	32.8
Al2O3	%	12.3I	8.7
Mg	%	1.2I	0.8
Na	%	0.0I	0.0

NOTE :

CAUTION - Results are reported to a one standard deviation detection limit !

N.D. = Not Determined. Elements marked '?' MAY be inaccurate if an undetermined element is present.

C = Result exceeds calibration limit & MAY have enhanced elements marked F. Data serious if warning is printed above.

T = Bad major elements total (<90% >110%, as oxides). Refers to columns marked %. Data relevant if all majors determined.

L = May be inaccurate due to low sample mass.

APPENDIX 2

1991 Drilling Logs

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGIE

1:100,000 SHEET : DAMPER AREA: PALABIE ANOM: MW 1 DH NO. 1

DC: LE HUNTE SECTION: 9 HUNDREDTH: PALABIE OWNER: D SIMPSON

CO-ORDS: 5050E 5120N DECln: AZIMUTH: V RL: DH TYPE: MUD

DATE ST: 8/2/91 DATE FN: 8.2.91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 36M CORING TO: CORING TO: EOH: 36m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10⁻³	COMMENTS/ RECOVERY
0 - 2	Qpb.	Q2 SAND CALCARENITE	Z7918	0.30 3.37	SURFACE 0.46 - 0.56
4		" "	19	0.33 0.67	
6		"	20	0.38 0.50	
8		RED OCHRE CLAYS + CALCARENITE + Q2 SAND	21	0.28 0.40	
8 - 10		GREY CLAY " "	22	0.14 0.15	
12		" "	23	0.11 0.17	
14	CLAYS	CREAM GREY CLAY + Q2 SAND	24	0.13 0.14	
16		"	25	0.10 0.12	
18	Tep	GREEN GREY CLAY MINOR Q2	26	0.07 0.08	
18 - 20		"	27	0.05 0.06	
22		d. OLIVE CLAYS + MICA	28	0.05 0.08	
24		BROWN - CREAM - GREEN CLAY	29	0.04 0.05	
26		m. - c. ANG. Q2 d. green CLAYS	Z7930	0.06 0.05	
28		↓	31	0.04 0.05	

SCALE: GEOLOGIST: MSM DATE: 8/2/91

000128

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW1 DH NO. 1

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 36m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS / RECOVERY
28 - 30		m. - c gr Q_2 + d. GREEN CLAYS	Z7932	0.02 0.04	
32		↓	33	0.04 0.06	
34		↓	34	0.03 0.05	
36	Aps	Q_2 + FISPAR + BIOTITE "GRANITIC ROCK"	35	0.16 0.21	EOH.

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: PACABIE ANOM: MW 1 DH NO. 2

DC: LE HUNTE SECTION: 9 HUNDREDTH: PACABIE OWNER: SIMPSON

CO-ORDS: 5050E/4950N DECln: AZIMUTH: RL: DH TYPE: MUD

DATE ST: 8.2.91 DATE FN: 8.2.91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 32m CORING TO: CORING TO: EOH: 32m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC X10⁻³	COMMENTS/ RECOVERY
0 - 2	Qpb	CALCARENITE + Qz SAND	Z7936	0.21 0.26	0.53 - 0.68 SURFACE
4		" "	37	0.10 0.13	
6		" "	38	0.13 0.16	
8		" "	39	0.11 0.14	
8 - 10		CREAM GREY CLAYS " "	Z7940	0.06 0.07	
12		RED FAWN CLAYS + " " "	41	0.06	TOGETHER
14		↓	42	0.08 0.14	
16	Tp	RED SANDY CLAY + GREEN CREAM CLAY	43	0.08 0.09	
18		CREAM GREY CLAY + MINOR Qz	43	0.04 0.05	
18 - 20		"	44	0.07 0.09	
22		BROWN GREY CLAY + Qz	45	0.08 0.09	
24		d. OLIVE CLAY	46	0.04	
26		"	47	0.02 0.04	
28		CLEAN m-c gr. SANDS WELL - SUBROUNDED	48	0.00 0.03	

SCALE: GEOLOGIST: MSM DATE: 8/2/91

000130

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PAGE 2/2

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW1 DH NO. 2

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 32m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS / RECOVERY
28 - 30		M-C gr SANDS + d. OLIVE CLAYS	Z7949	0.03 0.04	
32	Aps	Qz / BIOTITE / F'SPAR ‖ GRANITE	50	0.17	EOH

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: PALABIE ANOM: MW4 DH NO. 3

DC: LE HUNTE SECTION: 25 HUNDREDTH: KAPPA OWNER: A. WINTER

CO-ORDS: 5000E 4980N DEC1n: AZIMUTH: ✓ RL: DH TYPE: MUD

DATE ST: 8.2.91 DATE FN: 8.2.91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 36m CORING TO: CORING TO: 37m EOH: 37m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10^{-3}	COMMENTS/ RECOVERY
0 - 2	Qpb	BROWN CALC. SANDS + CHIPS.	Z7951	0.32 0.41	0.57 - 0.62 SURFACE
4		" + CLAY	52	0.19 0.26	
6		CALCRETE + OCHRE CLAY + Qz SANDS	53	0.05 0.06	
8		↓	54	0.04 0.05	
8 - 10		↓	55	0.06	
12		↓	56	0.06 0.07	
14		↓	57	0.03 0.07	
16	Tp	f. grey SANDS + CALC.	58	0.01 0.03	
18		↓	59	0.02 0.04	
18 - 20		" + OCHRE CLAY	Z7960	0.03 0.05	
22		GREY SANDS + R. CLAY + CARB. SILT.	61	0.04 0.05	
24		↓	62	0.02 0.04	
26		↓	63	0.03 0.04	
28		↓	64	0.01	

SCALE: GEOLOGIST: MSM DATE: 8/2/91

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW4 DH NO. 3

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 37m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10^{-3}	COMMENTS/ RECOVERY
28-30		f. Q_2 SANDS + p. fawn clays	Z7865	0.05 0.06	
32		" " + GREY/BLUE CLAY	66	0.03 0.04	
34		c.gr. Q_2 + CARB. MATTER + CLAY	67	0.04 0.05	
36		BLUE GREEN CLAY - f.gr. Q_2 + BIOTITE.	68	0.07 0.14	
37	A_{psm}?	GRANODIORITE ?	RM0161		◇ BIT CORED

SCALE: GEOLOGIST: DATE:

000133

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: PALABIE ANOM: MW3 DH NO. 4

DC: LE HUNTE SECTION: 32 HUNDREDTH: KAPPAKOOL OWNER: P. VANDERHUCMT

CO-ORDS: 5350E 5090N DECln: AZIMUTH: V RL: DH TYPE: MUD

DATE ST: 9/2/91 DATE FN: 9.2.91 DRILLED BY: THOMPSEN RIG: 6

NON CORING TO: 55m CORING TO: CORING TO: EOH: 58

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10⁻³	COMMENTS / RECOVERY
0 - 2	Qpb	m-f Q2 SAND + CACCARENITE	Z7969	0.15 0.20	0.27 - 0.30 SURFACE
4		↓	70	0.10 0.14	
6		+ FAWN CLAYS	71	0.11 0.17	
8		" "	72	0.06 0.07	
8 - 10		" + GREEN CLAY	73	0.13	
12		" "	74	0.07 0.12	
14	Tp(E)	f Q2 SAND	75	0.04 0.08	
16			76	0.07 0.09	
18		GREEN CLAYS + f. Q2 SANDS	77	0.05 0.06	
18 - 20		CARBON. MUD. + GREEN CLAYS + f Q2 SAND.	78	0.03	
22		↓	79	0.03 0.04	
24			80	0.05	
26		YELLOW SILTSTONE + CARB MUDS.	81	0.04 0.10	
28		↓	82	0.05 0.09	

SCALE: GEOLOGIST: MSM DATE: 9/2/91

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW3 DH NO. 4

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 58 m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC	COMMENTS/ RECOVERY
28 - 30		↓	Z7983	0.06 0.07	
32		↓	84	0.05 0.11	
34		+ Qz SAND	85	0.02 0.04	
36		↓	86	0.03 0.04	
38		↓	87	0.07	
38 - 40		CREAM GREEN CLAY + CAR. SANDS.	88	0.03 0.04	
42		"	89	0.04 0.05	
44		d. OLIVE CLAY + SMALL MAFIC CHIPS.	90	0.04 0.06	
46	Tep	BLACK CARB CLAY + MINOR GREEN CLAY + Qz SAND.	91	0.04 0.05	
48		KAOLINITIC CLAY + CAR. MUD	92	0.06 0.10	
48 - 50		M. Qz SAND + → "	93	0.04 0.05	
52		BLACK CAR. CLAY + Qz MINOR KAOLIN	94	0.05 0.06	
54		↓	95	0.05 0.04	
56		KAOLIN CLAYS + M. gr. Qz SANDS	96	0.04 0.06	

SCALE: GEOLOGIST: DATE:

000135

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW3 DH NO. 4

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 58m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC	COMMENTS/ RECOVERY
56 - 58	Aps	GRANITE Qz + WEATHERED FISPAR + MINOR BIOTITE.	Z7997	0.04 0.05	EOH

SCALE: GEOLOGIST: DATE:

000136

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PAGE 1/2

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: PACABIE ANOM: MW3 DH NO. 5

DC: Le Hunte SECTION: 31/32 HUNDREDTH: KAPPAKOOCH OWNER: P.VANDERHUCHT

CO-ORDS: 5000E 5010N DECln: AZIMUTH: ✓ RL: DH TYPE: MUD

DATE ST: 9.2.91 DATE FN: 9.2.91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 44m CORING TO: CORING TO: EOH: 44m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS/ RECOVERY
0 - 2	Qpd	CALCARENITE + Q_2 SANDS	Z7998	0.17 0.19	0.71 - 0.81 SURFACE
4		" + FAWN CLAYS	99	0.03 0.10	
6		↓	Z8000	0.07 0.15	
8		↓	01	0.06 0.09	
8 - 10		" + RED BROWN CLAYS	02	0.03 0.10	
12		" " + GREY CLAYS	03	0.10 0.24	
14		↓	04	0.09 0.12	
16		↓	05	0.10 0.11	
18		↓	06	0.08	
18 - 20	Tep	CAR. MUD + CALCRETE + GREY OCHRE CLAYS.	07	0.07 0.09	
22		↓	08	0.04 0.05	
24		↓	09	0.05 0.06	
26		↓	10	0.01 0.04	
28		+ Q_2 SAND + CREAM CLAY + CAR. MUD.	11	0.02 0.03	

SCALE: GEOLOGIST: MSM DATE: 9/2/91

000137

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW3 DH NO. 5

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 44m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS/ RECOVERY
28 - 30		BLACK CAR MUDS. + vf. Qz SAND.	Z7912	0.01 0.03	
32		↓	13	0.01 0.08	
34		↓ + FAWN CLAYS	14	0.00	
36		f-c gr. Qz + CAR. MUD.	15	0.02 0.03	
38		↓	16	0.05 0.06	
38 - 40		↓	17	0.03 0.04	
42		dGREEN CLAYS + f. Qz SANDS	18	0.04 0.10	
44	Aps	GRANITE — Qz, BIOTITE, F'SPAR	19	0.08 0.09	

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW20 DH NO. 6

DC: LE HUNTE SECTION: 4 HUNDREDTH: KAPPA OWNER: D. SAMPSON

CO-ORDS: 5000E 4940N DEC1n: AZIMUTH: ✓ RL: – DH TYPE: MUD

DATE ST: 9.2.91 DATE FN: 9.2.91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 66m CORING TO: CORING TO: EOH: 66m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS / RECOVERY
0 - 2	Qph.	CALCARENITE + f. RED SANDS	ZT720	0.12 0.15	0.06 - 0.11 SURFACE
4		FAWN SILTS + CLAYS + CALC.	21	0.14 0.30	
6		RED BROWN CLAY + Q_2 + "	22	0.20 0.41	
8		" + "	23	0.31 0.39	
8 - 10		" Q_2 "	24	0.22 0.23	
12	Tp	WHITE SS + FAWN SILTS	25	0.16 0.17	
14	Tp	WHITE + RED SS + f. Q_2 SAND	26	0.03 0.04	
16		SS " "	27	0.06	
18		" "	28	0.05	
18 - 20		" "	29	0.03 0.06	
22	Tep	CARB. MUD + "	30	0.03	
24		"	31	0.03 0.02	
26		"	32	0.01	
28		LIGNITE + "	33	0.00 0.01	

SCALE: GEOLOGIST: MSM DATE: 9/2/91

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW20 DH NO. 6

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 66m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS/ RECOVERY
28 - 30		LIGNITE + V.f. Qz SANDS	ZT734	0.00 0.01	
32		"	35	0.02 0.03	
34		"	36	0.01 0.02	
36		"	37	0.02 0.08	
38		"	38	0.01	
38 - 40		"	39	0.02 0.03	
42		" + SILVER GREY CLAY	40	0.06 0.08	
44		"	41	0.03 0.07	
46		BLUE GREY MICA CLAY CARB MUD + V.f. Qz SAND	42	0.05	
48		"	43	0.07 0.08	
48 - 50		"	44	0.05 0.07	
52		"	45	0.08 0.12	
54		f. Q_2 SAND + SILVER BLUE CLAY	46	0.17 0.26	
56		"	47	—	

SCALE: GEOLOGIST: DATE:

000140

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW20 DH NO. 6

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 66m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10⁻³	COMMENTS/ RECOVERY
56-58		GREY CLAY + ¼ SAND + CARB. MUD.	Z7748	0·27 0·37	
60		" " + MAFIC FRAG.	49	1·01 1·03	
62		F'SPAR + GREY CLAY + "	50	4·18 6·02	
64		Q_2 VEIN + DOLERITE (?) "	51	16·8 23·0	
66	Apsm?	METASEDIMENT / MAFIC?	52	9·35 20·5	EOH
					RODS JAMMED

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW20 DH NO. 7

DC: CE HUNTE SECTION: 4 HUNDREDTH: KAPPA. OWNER: D SAMPSON

CO-ORDS: 5000E 5000N DEC1n: AZIMUTH: V RL: DH TYPE: MUD

DATE ST: 9/2/91 DATE FN: 9/2/91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 80m CORING TO: CORING TO: EOH: 80M

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS/ RECOVERY
0 - 2	Qpb	CALCARENITE	ZT753	0.32	0.48 - 0.56 SURFACE
4		FAWN CLAYS + "	54	0.14 0.19	
6		" "	55	0.42 0.47	
8		RED SS CHIPS CALCRETE + MINOR CLAYS	56	0.11 0.16	
8 - 10		↓	57	0.08 0.14	
12		CALC. SANDS + MINOR CLAYS	58	0.12 0.17	
14	Tp	RED & WHITE SS CHIPS + Qz + "	59	0.07 0.08	
16		Fe. SS + CLEAN WHITE SS + ∫ Qz SAND	60	0.05 0.12	
18		↓	61	0.05 0.07	
18 - 20			62	0.08 0.09	
22			63	0.03 0.04	
24	Tep	CARB SANDS + CLEAN Qz SANDS	64	0.03 0.08	
26		LIGNITE + ∫ Qz SANDS	65	0.01 0.03	
28		↓	66	0.02 0.06	

SCALE: GEOLOGIST: DATE: 09/2/91

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW20 DH NO. 7

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 80m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC χ_{10}^{-3}	COMMENTS/ RECOVERY
28 - 30		"	Z7767	0.02 0.03	
32		v.f. Q_2 SAND + LIGNITE	68	0.01 0.03	
34			69	0.01 0.03	
36			70	0.03 0.04	
38			71	0.01 0.02	
38 - 40			72	0.03 0.04	
42			73	0.02 0.04	
44			74	0.02 0.03	
46			75	0.02 0.06	
48		CARB. MUDS + f. Q_2 SANDS	76	0.05 0.14	
48 - 50		d. GREEN CLAYS + "	77	0.06 0.10	
52		+ MAFIC SPECKS	78	0.10	
54			79	0.07 0.09	
56		d. GREEN - BROWN CLAYS + SILVER GREY MICA CLAY MUSCOVITE(?)	80	0.20 0.24	

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW2C DH NO. 7

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 80m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10⁻³	COMMENTS / RECOVERY
56 - 58		d. GREEN - BLACK CLAY + f. MICAS.	Z7781	0.17 0.20	
60		" " + Qz	82	0.27 0.29	
62		↓	83	0.39 0.42	
64		↓	84	0.31 0.50	
66		ORANGE + SILVER GREY CLAYS + FINE SILVER MICAS	85	0.39 0.56	
68		↓ "	86	0.42 0.46	
68 - 70		Y. GREEN / GREY GREEN CLAY "	87	0.42 0.50	
72		m. - c. gr Ang. Qz. SANDS	88	0.73 0.74	
74		Qz + minor FSPAR + GREY CLAYS	89	0.61 0.78	
76		" + BLUE-GREEN CLAY	90	0.58 0.63	
78		BIOTITE + Ang. Qz + "	91	0.39 0.47	
78 - 80	Aps	MICACEOUS GRANITE ← Qz, FSPAR, BIOTITE	92	0.37 0.30	EOH

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW20 DH NO. 8

DC: LE HUNTE SECTION: 4 HUNDREDTH: KAPPA KOOLOWNER: D. SAMPSON

CO-ORDS: 5000E 4960N DECln: AZIMUTH: ✓ RL: DH TYPE: MWD

DATE ST: 10.2.91 DATE FN: 10.2.91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 66m CORING TO: CORING TO: EOH: 66m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10⁻³	COMMENTS / RECOVERY
0 - 2	Qpl	CALCRENITE + Q2 SAND	Z7793	0.33 0.72	0.36 - 0.4C SURFACE
4		" + RED CREAM CLAYS	94	0.25 0.34	
6		" + RED BROWN "	95	0.32 0.66	
8		" "	96	0.17 0.22	
8 - 10		" + WHITE SS.	97	0.14 0.32	
1 12		CALCRETE + SS + RED CLAY	98	0.15 0.16	
14		" "	99	0.16 0.18	
16		Q2 SAND + " + "	Z7800	0.07 0.16	
18		↓	01	0.12 0.19	
18 - 20	Tep	+ Q2 SAND + LIGNITE + SS + CALCRETE	02	0.02 0.01	
22		↓	03	0.05 0.10	
24		↓	04	0.06 0.08	
26		LIGNITE + Q2 SANDS.	05	0.04	
28		↓	06	0.06 0.09	

SCALE: GEOLOGIST: DATE: 10.2.91

000145

PAGE 2/3

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW20 DH NO. 8

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 66m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS / RECOVERY
28 - 30		LIGNITE + f. Qz SAND	Z7807	0.03 0.05	
32			08	0.06 0.07	
34		+ ORANGE CLAY	09	0.06	
36		CAR. MUD + "	10	0.05 0.06	
38			11	0.02 0.03	
38 - 40			12	0.03	
42			13	0.00 0.01	
44		BLACK CLAY + ANG. Qz + CAR. MUD	14	0.02 0.06	
46			15	0.03	
48			16	0.03	
48 - 50		WHITE + BLACK CLAYS + Qz SAND	17	0.04	
52		SILVER GREY CLAY + d. GREEN CLAY FINE MICAS	18	0.05 0.07	
54			19	0.06 0.05	
56		CREAM GREY CLAYS + Ang. Qz	20	0.25 0.33	

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW20 DH NO. 8

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE: MUD

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 66m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10⁻³	COMMENTS/ RECOVERY
56 - 58		m-c. ang. Q_2 + CREAM GREY CLAYS	Z7821	0.28 0.53	
60			22	0.27 0.33	
62		+ d. GREEN CLAY	23	0.39 0.41	
64		MUSCOVITE ANG. Q_2 CREAM GREY CLAY	24	0.39 0.83	
66	Ap?	Q_2 + FSPAR + WETH. BIOTITE	25	0.19 0.38	ECH
		"GRANITE"			

SCALE: GEOLOGIST: DATE:

000147

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW5 DH NO. 9

DC: LE HUNTE SECTION: 4 HUNDREDTH: KAPPA OWNER: D. SAMPSON

CO-ORDS: 5100E 5000E DECln: AZIMUTH: ✓ RL: DH TYPE: MUD

DATE ST: 10/2/91 DATE FN: 10/2/91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 42m CORING TO: CORING TO: EOH: 42m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC X10^{-3}	COMMENTS / RECOVERY
0 - 2	Qpb	CALCARENITE + Q2 SAND	Z7826	0.10 0.16	0.40 - 0.56 SURFACE
4		" + RED BR. CLAY	27	0.06 0.08	
6		" "	28	0.06	
8			29	0.07 0.08	} TOGETHER
8 - 10			29	0.05 0.10	}
12			30	0.05	
14	Tp	WHITE SS + Q2 SAND + CALC.	31	0.08 0.12	
16			32	0.00 0.02	
18			33	0.02 0.04	
18 - 20			34	0.03	
22			35	0.01	
24	Tcp	CARB. MAT. + SS CHIPS + V.f. SAND.	36	0.03	
26			37	0.01 0.02	
28			38	0.02 0.04	

SCALE: GEOLOGIST: [illegible] DATE: 10/2/91

000148

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW5 DH NO. 9

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DEC1n: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 42m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS/ RECOVERY
28 - 30		CARB. MAT. + SS + Vf. Q_2 SAND.	Z7839	0.02 0.03	
32		↓	40	0.00 0.02	
34		LIGNITE + f. Q_2 SANDS	41	0.01 0.02	
36		CARB. MUD + "	42	0.02 0.03	
38		↓	43	0.02	
38 - 40	APS	Q_2 + F'SPAR GNEISSIC ROCK.	44	0.00 0.03	
42		Q_2 FSPAR GNEISS	45	0.02 0.12	

SCALE: GEOLOGIST: DATE:

000143

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW10 DH NO. 10

DC: ELLISTON SECTION: 34 HUNDREDTH: SQUIRE OWNER: T. VAN LEEN

CO-ORDS: 5000E 4995N/DEC1n: AZIMUTH: ✓ RL: DH TYPE: AIR

DATE ST: 1/2/91 DATE FN: 10/2/91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 42m CORING TO: CORING TO: EOH: 42m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC X10⁻³	COMMENTS/ RECOVERY
0 - 2	Qpb.	CALCARENITE	27846	0.44 0.48	1.37 - 1.75 SURFACE
4			47	0.40 0.44	
6			48	0.33 0.35	
8			49		No
8 - 10			50		SAMPLE CAVITY
12		BRIGHT ORANGE - YELLOW CLAY + f Qz.	51	0.05 0.12	
14		PINK to BLUE GREY CLAY + m. Qz SANDS + BIOTITE (?)	52	0.03 0.04	
16		ORANGE + RED GREY CLAY + "	53	0.03 0.07	
18	Tep	LIGNITE + d. BROWN CLAY + m. Qz	54	0.03 0.05	
18 - 20			55	0.02 0.03	
22		LESS CLAY CONTENT	56	0.02	
24			57	0.03 0.04	
26		CARBONACEOUS MUD / ROUNDED - SUB ROUNDED c. gr. Qz.	58	0.02 0.04	
28			59	0.04 0.06	

SCALE: GEOLOGIST: DATE: 10/2/91

000150

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PAGE 2/2

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW10 DH NO. 10

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 42m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS/ RECOVERY
28 - 30		CAR. MUD + LIGNITE + f. Qz SAND.	Z7860	0.02 0.03	
32		m. – c. gr. Qz + CAR. MUD.	61	0.04 0.06	
34		LIGNITE + ROUNDED Qz (m - c gr).	62	0.03 0.04	
36			63	0.01 0.02	
38			64	0.04	
38 - 40			65	0.02	
42			66	0.02	EOH
		RODS JAMMED – Qz SAND WELL – SUBROUNDED + BLUE MICA (WEATHERED? DICITE)			

SCALE: GEOLOGIST: DATE:

000151

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW13 DH NO. 11

DC: ELLISTON SECTION: 8 HUNDREDTH: SQUIRE OWNER: J. LETTON

CO-ORDS: 5100E 4950N DECln: AZIMUTH: ✓ RL: DH TYPE: AIR/MUD

DATE ST: 10/2/91 DATE FN: 11/2/91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 50m CORING TO: CORING TO: EOH: 80m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10 3	COMMENTS / RECOVERY
0 – 2	Qpb.	CALCARENITE	Z7871	0·29 0·32	2·46–2·59 SURFACE
4		↓	72	0·18 0·22	
6			73	0·20 0·24	
8			74	0·13 0·14	
8 – 10			75	0·10 0·11	HIT CLAY AT 10m CHANGE TO FOAM
12		" + CREAM GREY CLAY RED "	76	0·05 0·07	
14		RED + YELLOW CLAY + Q_2 + CALC.	77	0·07 0·08	
16		↓	78	0·06	
18		BROWN SILT + CLAY + CALC.	79	0·09 0·11	
18 – 20		+ "	80	0·06 0·07	OUT OF WATER CEMENT HOLE CHANGE TO M
22		f.Q_2 SAND + SS + "	81	0·16 0·20	11/2/91
24	Tep(?)	MUDSTONE + fQ_2 SAND	82	0·03 0·05	
26		CAR. MUD + "	83	0·04 0·05	
28		↓	84	0·02 0·03	

SCALE: GEOLOGIST: MAM DATE: 11/2/91

000152

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW13 DH NO. 11

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DEC1n: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 80m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10⁻³	COMMENTS / RECOVERY
28 - 30		V.f. Q_2 SAND + CARB. MUD.	Z7885	0.04 0.05	
32		↓	86	0.03 0.07	
34		↓	87	0.04 0.06	
36		f-c.gr Q_2 + CARB CLAY	88	0.03 0.05	
38		↓	89	0.06 0.07	
38 - 40		↓	90	0.03 0.06	
42		↓	91	0.02 0.03	
44		↓	92	0.03 0.04	
46		↓	93	0.04 0.05	
48		↓	94	0.07 0.09	
48 - 50		↓	95	0.08 0.11	
52		GREY CLAY + Q_2 ANGULAR + BIOTITE	96	0.07 0.11	
54		GREEN GREY CLAY + ANG Q_2 + "	97	0.08 0.11	
56		↓	98	0.18 0.14	

SCALE: GEOLOGIST: DATE:

000153

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PAGE 3/3

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW13 DH NO. 11

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 80m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10⁻³	COMMENTS/ RECOVERY
58		GREY GREEN CLAY + ANG Q2 + BIOTITE (?)	Z7899	0.12 0.14	
58 - 60		↓ + FSPAR	Z7900	0.19 0.25	
62		WEATHERED AMPHIBOLITE	Z9234	0.21 0.23	
64			35	0.31 0.38	
66		MINOR AMPHIBOLES	36	0.64 0.94	
68		GREEN Q2 + BROWN Q2 CLAY + AMPHIBOLITE + F'SPAR.	37	0.29 0.40	
68 - 70		GREEN CHIPS + CLAY (SCHIST LIKE) Q2 - FSPAR - BIOTITE	38	0.16 0.18	
72			39	0.11 0.13	
74			Z9240	0.14	
76			41	0.22 0.37	
78			42	0.13 0.16	
74 - 80	Aps	FOLIATED FSPAR - Q2 - BIOTITE CHIPS	43	0.16 0.17	EOH
		GNEISSIC BAS.			

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

000154

PAGE 1/4

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW13 DH NO. 12

DC: ELLISTON SECTION: 8 HUNDREDTH: SQUIRE OWNER: J. LETTON

CO-ORDS: 51CCE 4800N DECln: AZIMUTH: ✓ RL: DH TYPE: MUD

DATE ST: 11.2.91 DATE FN: 11.2.91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 101m CORING TO: CORING TO: EOH: 101

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\chi_{10^{-3}}$	COMMENTS/ RECOVERY
0 - 2	Cpb	CALCARENITE + L.GREY CLAY	Z9244	0.17 0.18	2-11-3.88 SURFACE
4		↓	45	0.14 0.16	
6			46	0.12 0.16	
8			47	0.11 0.13	
8 - 10		" + BEIGE CLAY.	48	0.10 0.12	
12		" + CALCRETE	49	0.05	
14		fe - IRONSTONE	50	0.07	
16		GREEN GREY + WHITE CLAY + fgr. MUSCOVITE	51	0.07	
18		GREEN GREY + YELLOW CLAY + f. Qz. grains.	52	0.09	
18 - 20		GREENISH WHITE CLAY + FESTONE + SS	53	0.06 0.08	
22	Tep	GREEN MUDSTONE WHITE-GREEN CLAY CAR. MUD	54	0.05	
24		↓	55	0.03	
26			56	0.03 0.04	
28		WHITISH GREEN CLAY, LIGNITE +Qz. SAND.	57	0.02 0.03	

SCALE: GEOLOGIST: MGSM DATE: 11.2.91

000155

STOCKDALE PROSPECTING LIMITED

PAGE 2/4

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW13 DH NO. 12

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 101m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC X10⁻³	COMMENTS/ RECOVERY
28 - 30		LIGNITE m-C gr Qz YEL. SS. CHIPS	Z9258	0.03	
32		" "	59	0.03 0.04	
34		d. GREEN GREY CLAY c-m Qz + LIGNITE	60	0.03 0.04	
36			61	0.04 0.08	
38			62	0.03 0.08	
38 - 40			63	0.05 0.10	
42		GREY CLAY	64	0.09 0.11	
44		+ MUSCOVITE	65	0.12 0.10	
46		+ ANG Qz	66	0.16 0.19	
48		+ BIOTITE (?).	67	0.14 0.20	
48 - 50			68	0.13 0.16	
52		Qz RICH ANG.	69	0.14 0.15	
54			70	0.10 0.11	
56			71	0.10 0.12	

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW13 DH NO. 12

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DEC1n: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 101m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS/ RECOVERY
58		ANG. Q_2 + GREY GREEN CLAY + BIOTITE	Z9272	0·10 0·11	
58 - 60		WHITE-GREEN CLAY + ANG. Q_2 + "	73	0·07 0·11	
62		↓	74	0·08	
64		SILVER GREY MICACEOUS BROWN CLAY + GARNET	75	0·09 0·13	
66		GREEN GREY CLAY SOME SULPHIDES	76	0·05 0·12	
68		" + BROWN CLAY	77	0·14 0·11	
68 - 70		↓	78	0·10 0·11	
72		↓	79	0·10 0·11	
74		FSPAR + GREY BROWN CLAY + Q_2	80	0·11	
76		↓	81	0·10 0·14	
78		↓	82	0·13 0·5	
78 - 80		+ GREY GREEN CLAY ↓	83	0·11	
82		↓	84	0·14 0·17	
84		↓	85	0·15 0·17	

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW13 DH NO. 12

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 101m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC $\times 10^{-3}$	COMMENTS/ RECOVERY
86		GREY BROWN CLAY + BIOTITE + Qz	Z 19286	0·19 0·20	
88		↓	87	0·18 0·21	
88 - 90		↓	88	0·21 0·22	
92		↓	89	0·20	
94		↓	90	0·20 0·23	
96		↓	91	0·20 0·22	
98		GREY BROWN + GREEN + BLUE CLAY + Qz	92	0·20 0·22	
98 - 100		↓	93	0·08 0·09	
101	Aps	Qz - BIOTITE - FSPAR (?) GNEISS	94	0·07 0·13	EOH

SCALE: GEOLOGIST: DATE:

000158

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW 13 DH NO. 13

DC: EWISTON SECTION: 8 HUNDREDTH: SQUIRE OWNER: J. LETTON

CO-ORDS: 4500E 4925N DECln: AZIMUTH: ✓ RL: DH TYPE: MUD

DATE ST: 11/2/91 DATE FN: 11/2/91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 57m CORING TO: CORING TO: EOH: 57m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC x10⁻³	COMMENTS / RECOVERY
0 - 2	Qpb	CALCARENITE	Z9295	0.77 0.79	1.48 - 1.84 SURFACE
4		↓	96	0.86 0.97	
6		↓	97	0.49 0.59	
8		↓	98	0.37 0.47	
8 - 10		WHITE CLAY + CALCARENITE	99	0.32 0.38	
12		↓	Z9300	0.46 0.53	
14		↓	01	0.29 0.26	
16		↓ + RED CLAY	02	0.20 0.24	
18		GREEN - WHITE - GREY - YELLOW CLAYS	03	0.19 0.21	
18 - 20		GREY BROWN CLAYS	04	0.07 0.11	
22		↓	05	0.12 0.16	
24		LIGNITE - CREAM CLAYS - V.f. Q_2 SANDS	06	0.09 0.11	
26		↓	07	0.04 0.07	
28		↓	08	0.06 0.14	

SCALE: GEOLOGIST: MSM DATE: 11/2/91

000153

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW13 DH NO. 13

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 57m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC X10⁻³	COMMENTS/ RECOVERY
28 - 30		f - c gr Qz + CARB. MUD	Z9309	0.08	
32		CREAM - OCHRE CLAYS + " + f. Qz	10	0.06 0.08	
34		f - cgr Qz + CARB. MUD	11	0.07 0.14	
36		f gr Qz SAND	12	0.05 0.08	} TOGETHER
38			12	0.06 0.07	}
38 - 40			13	0.05 0.06	
42			14	0.06	
44		+ CREAM CLAY	15	0.04 0.06	
46			16	0.07 0.08	
48			17	0.07	
48 - 50			18	0.07 0.14	
52			19	0.07	
54			20	0.05	
56			21	0.02 0.00	

SCALE: GEOLOGIST: DATE:

000160

PAGE 3/3

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW13 DH NO. 13

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DEC1n: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 57m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC X10^{-3}	COMMENTS/ RECOVERY
56-57	Apz	Qz - FSPAR - MICA - GNEISSIC BAS.	Z9325	0.05 0.06	EOH

SCALE: GEOLOGIST: DATE:

000161

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW16 DH NO. 14

DC: ELLISTON SECTION: 36 HUNDREDTH: SQUIRE OWNER: T. VAN LOON

CO-ORDS: 4950E / 4840N DEC ln: AZIMUTH: V RL: DH TYPE: MUD

DATE ST: 11/2/91 DATE FN: 12/2/91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 50m CORING TO: CORING TO: 51m EOH: 51m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC	COMMENTS/ RECOVERY
0 - 2	Qph	CALCARENITE	Z9323	0.53 0.52	0.85 - 0.91 SURFACE
4			24	0.23 0.29	
6		+ FAWN CLAYS	25	0.28 0.37	
8		+ RED ORANGE SS + FAWN CLAY	26	0.19 0.23	
8 - 10		GREENISH GREY CLAY + FAWN CLAY	27	0.19 0.23	
12		RED BROWN SS GREY GREEN CLAY + fQz SAND	28	0.12 0.13	
14		" + FeSS + PINK-RED CLAY	29	0.08 0.10	
16		L. GREEN CLAYS - RED - PINK BROWN	30	0.09	
18		"	31	0.08 0.09	
18 - 20	Tep	CREAM CLAY + Qz SAND + CARB. MUD	32	0.02 0.06	
22		GREEN + " + " + "	33	0.09	
24		+ ORANGE - LBROWN SS.	34	0.08 0.10	
26		GREEN GREY CLAY, SS m - c gr Qz + LIGNITE	35	0.06 0.07	
28			36	0.06 0.07	

SCALE: GEOLOGIST: MSM/SCF DATE: 12/2/91

000162

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW16 DH NO. 14

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 51m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC X10^{-3}	COMMENTS/ RECOVERY
28 - 30		M-fgr Qz + CARB MUD + SS	Z9337	0.05 0.06	
32		LIGNITE + (AS ABOVE) + SS	38	0.03 0.04	
34		L.GREY CLAY + " + d.GREEN CLAYS	39	0.07 0.10	
36		CREAM GREEN CLAY + Qz + BIOTITE	40	0.08 0.10	
38		MICA GREY CLAY + fgr Qz	41	0.08 0.11	
38 - 40		↓ + MAFIC CHIPS	42	0.03	
42		MICA CLAY, Qz, Px (?), BIOTITE	43	0.10 0.13	
44		C.Ang Qz + BIOTITE + BLUE GREY CLAY + FSPAR	44	0.14 0.17	
46		↓	45	0.13 0.14	
48		↓	46	0.14 0.16	
48 - 50		GREEN SCHIST (?)	47	0.17 0.23	
51	Aps	FOLIATED GNEISSIC ROCK	CORE	0.60	EOH ~ 50% RECOVERY.

SCALE: GEOLOGIST: DATE:

000163

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT : MT. WEDGE

1:100,000 SHEET : DAMPER AREA: COCATA ANOM: MW16 DH NO. 15

DC: ELLISTON SECTION: 36 HUNDREDTH: SQUIRE OWNER: TIM VAN LOON

CO-ORDS: 495OE 5000N RCln: AZIMUTH: V RL: DH TYPE: MUD

DATE ST: 12/2/91 DATE FN: 12/2/91 DRILLED BY: THOMPSON RIG: 6

NON CORING TO: 46m CORING TO: CORING TO: EOH: 46m

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC ×10⁻³	COMMENTS / RECOVERY
0 - 2	Qpb.	CALCARENITE	Z9348	0.18 0.31	1.67-2.80 SURFACE
4		↓	49	0.21 0.22	
6		↓	50	0.19 0.22	
8		L. BROWN CLAY	51	0.14 0.18	
8 - 10		WHITE / RED BROWN CLAY	52	0.15 0.16	
12		↓	53	0.14 0.15	
14		↓	54	0.12 0.16	
16		↓	55	0.13 0.14	
18		↓	56	0.02 0.14	
18 - 20	Tp	RED BROWN CLAYS - SANDS	57	0.06 0.06	
22		D. BROWN - RED CLAY	58	0.10	
24		↓	59	0.03	
26		↓	60	0.03 0.06	
28	Tep	CARB MUDS - SUBR - rounded Qzgr SANDS.	61	0.02 0.01	

SCALE: GEOLOGIST: MSM / SCF DATE: 12.2.91

STOCKDALE PROSPECTING LIMITED

DRILLHOLE LOG SUMMARY SHEET

PROJECT :

1:100,000 SHEET : AREA: ANOM: MW16 DH NO. 15

DC: SECTION: HUNDREDTH: OWNER:

CO-ORDS: DECln: AZIMUTH: RL: DH TYPE:

DATE ST: DATE FN: DRILLED BY: RIG:

NON CORING TO: CORING TO: CORING TO: EOH: 46M

INTERVAL	STRAT	LOG SUMMARY	SAMP NO	SUSC	COMMENTS/ RECOVERY
28 - 30		CARB. MUD + ROUNDED Qz gr. SANDS	Z9362	0.00 0.01	
32		↓	63	0.02	
34		↓	64	0.03	
36		L. GREY-GREEN CLAY	65	0.07 0.08	
38		↓	66	0.08 0.16	
38 - 40		GREY-RED CLAY - ANG. Qz gr.	67	0.10 0.11	
42		GREY GREEN CLAY - c.gr. ang. Qz	68	0.12 0.14	
44		↓	69	0.25 0.29	
46	Aps	BIOTITE - Qz - GNEISSIC ROCK	70	0.27 0.28	EOH

SCALE: GEOLOGIST: DATE:

000165

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

33°10'

SAMPHIRE FLAT

COCATA HILL

E.L. 1527

WARRAMBOO

N

COCATA CONSERVATION PARK

33°20'

MT. WEDGE

33°30'

BARWELL CONSERVATION PARK

LOCK

135°40'

133°30'

138°

32°

35°

1527

CLEVE

SOUTHERN OCEAN

0 5 10 15kms.

MAP 1

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 **LOCALITY MAP** **EXPLORATION LICENCE 1527** **MT WEDGE**	Compiled PDW Drawn ADS Date JANUARY '89 Scale 1:250,000 Revised SEL 3539

000166

DAMPER 1 100 000 KOPI 1 100 000

WUDINNA

SURVEY OUTLINE

EYRE HWY.

KYANCUTTA

WARRAMBOO

MT DAMPER

MT WEDGE

ELLISTON TROUGH

POLDA TROUGH

MAJOR BASEMENT FAULT

MW 01

MW 02

MW 03

MW 04

MW 05

MW 06

MW 07

MW 08

MW 09

MW 10

MW 11

MW 12

MW 13

MW 14

MW 15

MW 16

MW 17

MW 18

MW 19

MW 20

SWAMP

SLEAFORD COMPLEX OUTCROP

PORDIA HILL (HILTABA GRANITE OUTCROP)

UNCONTITCHE HILL (HILTABA GRANITE OUTCROP)

PINTHYPUT HILL

UNDERLYING ARCHEAN BASEMENT AB's SLEAFORD COMPLEX

UNDERLYING PROTEROZOIC BASEMENT. HILTABA SUITE P y b

Qhc MOORNABA SAND

Qpb BRIDGE WATER FORMATION

F AEOLIAN CALCARENITE

Pcb Conglom.

DYKE ?

FAULTS (MAJOR)

FAULTS

INFERRED DYKES

ROADS

EDGE OF ELLISTON (BLUE RANGE BEDS)

SUB-OUTCROPPING/BLUE RANGE BEDS (CONGLOMERATE WITH HIGH K AND Th LEVELS)

OUTCROPPING PROTOZOIC GRANITES

OUTCROPPING ARCHEAN GRANITES

Qhc / Qpb BOUNDARY BETWEEN EXPOSED BRIDGEWATER FORM. AND NTH. SAND CLAY COVER

MW05 ANOMALY

NOTE : AMG's DERIVED FROM PHOTO ENLARGED IMAGE AND ARE SUBJECT TO E-W / N-S ERROR

LOCATION MAP

DAMPER KOPI SHERINGA TOOLIGIE

KIMBA 153-7 WHYALLA 153-8

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
KIMBA 153-7

MT WEDGE

AIRBOURNE GEOPHYSICAL INTERPRETATION

Compiled	FWA
Drawn	ADS
Date	3/90
Scale	1:250 000
Revised	
SEL 3804	

8087-2

LAKE YAMMEE

Avoca

EYRE

WUDINNA

LAKE WAMBAMANA

SAMPHIRE FLAT

MT DAMPER

PORDIA HILL

UCONTITCHIE HILL

COCATA HILL

Temdamura

Gum Flat

MT WEDGE

Mo[illegible]wedge

Billabowie

Whitewell

X5700 X5877 X5878 X5400 X5422(L) X4997 X4998 X4999 X5000 X5696 X5098 X5099 X5697 X5698 X5100 X5399 X5398 X5394 X5879 X5397 X5699 X5381 X5382 X3285 X5396 X5395 X5383 X3286 X5393 X5392 X5384 X3299 X3287 X5391 X5385 X5386 X3300 X3288 X5390 X5387 X5389 X5388 X5692 X3289 X3298 X3290 X3291 X3297 X3295 X3296

E.L. 1527

138°00' 00 10 10' 20 30 20' 40 138°30'
33°00' 33°00'
40 40
10' 30 30 10'
20 20
20' 10 10 20'
630000mE
33°30' 00 135°00'
5000mE
0 20 30 20 40 33°30' 138°30'

2 0 2 4 6 8 10 12 kms

NO. OF BAGS
I (2) IV — SAMPLE ORDER
X5879

134°30' 136° 33° 34° DAMPER 5951

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
ISA-7 KIMBA
DAMPER 1:100 000

CURRENT SAMPLING

Compiled
Drawn
Date
Scale 1:100 000
Revised
SEL. 3971

MAP 2

8087-2

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

ELEVENTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 JULY 1991

000163

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE
ELEVENTH QUARTERLY REPORT FOR THE PERIOD
ENDING 11 JULY 1991

Edited: F M GAUNT

Author/s: M S MITCHELL

Approved: H R ROBISON

Date: JULY 1991

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 2 Plan Nos.: 2 Table Nos.: 2 Appendices: 2 Plates: -

Keywords: DRILLING, GEOCHEMISTRY.

Abstract: During this quarter several deflation loam and geochemical samples were taken over "suspected" kimberlite locations identified by local landowners. Ground magnetic profiles were also conducted over each site. Results from the samples and surveys failed to indicate any presence of kimberlitic rocks.

Petrographic descriptions from 1991 drill core became available and no kimberlitic rock types were identified.

Copy to: SADME, WHYALLA, IC

Ref: MSM50

Circulate to:

CONTENTS

MAPS

TABLES

APPENDICES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

ELEVENTH QUARTERLY REPORT TO 11 JULY 1991

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula about 2 kilometres south of Wudinna on the Kimba 1:250,000 sheet (Map 1).

During this quarter several supposed kimberlitic anomalies were investigated. A local group of pastoralists with "hidden knowledge" formed a group and put forward what is called the Oolanta proposal.

Petrographic descriptions of core from magnetic anomaly MW04 and MW16 became available. All other results are outstanding.

2 FIELD WORK

The Oolanta proposal was investigated on the ground with crosshair magnetic profiles, loam and geochemical samples taken over several of the "suspected" kimberlites. Magnetic spikes were associated with all these areas or proximal to the designated area. However these peaks probably reflect the active background known over the region, also the peaks were non-dipolar in nature and therefore not considered reflective of an intrusive rock type.

A total of 4 loam and 4 geochemical samples were taken over two of these areas (Table 1). At each site 30kg of -1.0 + 0.3mm deflation sediment was collected (Map 2).

3 RESULTS

All loam sample results were negative with respect to kimberlitic indicators, also no kimberlitic geochemical signatures were observed (Appendix 1).

Petrographic descriptions from the 1991 drill core became available and the rock types intersected are as follows.

MW04 - hornblende - quartz gabbro.
MW16 (1st hole) - Quartzo-feldspathic (sillimanite) schist biotite.
MW16 (2nd hole) - Brecciated quartzo-feldspathic biotite schist.

Full petrographic descriptions are located in Appendix 2.

The remaining drill chip samples are currently being treated and all results will be reported on when available.

4 FORWARD WORK PROGRAMME

A total of seven airborne magnetic anomalies require ground magnetic surveying, MW02,08,09,11,17,21 and MH118. The ground magnetic signatures of these anomalies will be evaluated and may be drilled if considered worthy of further work (locations shown on Map 3).

5 STAFF

Staff employed in the field programme were :

Geologists	1
Field Assistants	2

The project has been supported by the facilities of the Regional Office in Whyalla, the personnel and facilities of the Research/Technical department and Head Office in Melbourne.

6 EXPENDITURE

Expenditure of $ 24,572 has been allocated as shown in Table 2.

M S Mitchell
Senior Geologist
Whyalla

H R Robison
Chief Geologist-South

Table 1 : Sampling Locations EL1527

Sample Number	Type	Coordinates	
		Easting	Northing
X5963	Loam & Geochem	530423m	6334930m
X5964	Loam & Geochem	530423m	6334930m
X5971	Loam & Geochem	536250m	6339100m
X5972	Loam & Geochem	536250m	6338370m

Table 2 : Expenditure Report for EL 1527 : Mt Wedge
Period Ending 31 June 1991

	$
OPERATIONAL STAFF COSTS	5 394
GENERAL OPERATING EXPENSES	951
TRANSPORT AND TRAVEL	917
CONTRACTORS : SAMPLE ANALYSIS	177
CENTRAL TREATMENT PLANT	8 008
LABORATORY : TREATMENT	1 160
: EXAMINATION	3 240
ADMINISTRATION:	
REGIONAL OFFICE	1 869
HEAD OFFICE	2 084
CAPITAL UTILISATION	772
TOTAL THIS PERIOD	$ 24 572
TOTAL PREVIOUSLY REPORTED	246 277
TOTAL EXPENDITURE TO DATE	$ 270 849

APPENDIX 1

1991 Geochemical Results

ANALABS

EL 1527

Analytical Data

Sample Prefix	Report Number	Report Date	Client Order No.	Page
	113500.10.82688	17/05/91	M 8645	1 OF 3

Tube	Sample No.	Mg	K	Ca	Ti	V	Cr	Co	Ni
1	X5963 -80#	0.170	0.560	0.210	2990	58	26	8	20
2	X5964 -80#	0.140	0.390	0.350	1860	33	38	5	12
9	X5971 -80#	0.090	0.300	0.120	1490	23	<10	<5	<10
10	X5972 -80#	0.500	0.670	4.630	1910	39	38	7	13
23	DETECTION	0.002	0.050	0.005	10	2	10	5	10
24	UNITS	%	%	%	ppm	ppm	ppm	ppm	ppm
25	METHOD	GI201	GI201	GI201	GI201	GI201	GI201	GI201	GI201

Results in ppm unless otherwise specified

T = element present, but concentration too low to measure

X = element concentration is below detection limit

ANALABS

EL 1527

Analytical Data

Sample Prefix	Report Number	Report Date	Client Order No.	Page
	113500.10.82688	17/05/91	M 8645	2 OF 3

Tube	Sample No.	Cu	Zn	Sr	Y	Zr	Nb	Ag	Ba
1	X5963 -80#	12.30	18.80	33	16	86	10	0.49	126
2	X5964 -80#	4.62	13.60	32	9	51	<10	0.17	106
9	X5971 -80#	7.56	9.03	17	5	41	<10	0.25	78
10	X5972 -80#	14.80	14.20	159	9	48	<10	0.28	138
23	DETECTION	2.00	2.00	1	1	5	10	0.10	5
24	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
25	METHOD	GI222	GI222	GI201	GI201	GI201	GI201	GI222	GI201

Results in ppm unless otherwise specified

T = element present, but concentration too low to measure

X = element concentration is below detection limit

ANALABS

EL 1527

Analytical Data

Sample Prefix	Report Number	Report Date	Client Order No.	Page
	113500.10.82688	17/05/91	M 8645	3 OF 3

Tube	Sample No.	La	Ce	Ta	Pb	Th	U
1	X5963 -80#	21	39	<10	14.20	10	<100
2	X5964 -80#	12	22	<10	8.77	<10	<100
9	X5971 -80#	7	<15	<10	6.51	<10	<100
10	X5972 -80#	22	22	<10	9.70	<10	<100
23	DETECTION	5	15	10	1.00	10	100
24	UNITS	ppm	ppm	ppm	ppm	ppm	ppm
25	METHOD	GI201	GI201	GI201	GI222	GI201	GI201

Results in ppm unless otherwise specified

T = element present, but concentration too low to measure

X = element concentration is below detection limit

APPENDIX 2

1991 Drill Core Petrographic Description

SAMPLE: BM0161 (MW04)

Thin Section: C55124

Rock Name:
Hornblende-quartz gabbro

Hand Specimen:
The drill core rock sample is medium-grained, massive, and dark greenish grey in colour with small disseminated white interstitial patches.

Brief Petrography:

In thin section, this sample displays a massive gabbroic igneous texture.

Hornblende is moderately abundant. It occurs as pleochroic greenish brown to green grains that in places form euhedral prismatic crystals, but elsewhere form anhedral poikilitic grains up to ~5 mm in size that enclose plagioclase and rare cores of clinopyroxene (augite).

Plagioclase occurs in similar abundance to hornblende. It forms prismatic crystals ~1 mm in average length, most which have suffered partial replacement in cores or in zones by small sericite flecks and, less commonly, granules of epidote. Primary twinning and normal zoning is well-preserved.

Biotite occurs in minor amount as pleochroic dark brown to pale yellow plates that have suffered partial replacement by yellow epidote and green chlorite.

Quartz occurs in minor amount as clear, unstrained interstitial anhedral grains.

Apatite is present in accessory amount as subhedral squat prismatic crystals disseminated throughout the rock.

Opaques occur in two forms: as uncommon small (<0.2 mm) euhedra of primary origin (possibly ilmenite), and as moderately abundant aggregates and stringers that fill fractures and grain boundaries.

The sample represents a basic intrusive igneous rock that formed by slow cooling of silica-oversaturated basic magma. A quartz-tholeiitic magmatic affinity of the parent magma is inferred from the mineralogy.

SAMPLE: BM0166(a) (MW16)

Thin Section: C55129

Rock Name:
Quartzo-feldspathic (sillimanite-)biotite schist

Hand Specimen:
The rock sample is a grey, uniform rock with strong foliation defined by dark micaceous laminations.

Brief Petrography:

In thin section, this sample displays a granoblastic, strongly foliated metamorphic texture.

Plagioclase is abundant, occurring as anhedral grains ~0.2-0.6 mm in grain size, with rare larger grains ~1-1.5 mm long. Elongated grains are aligned within the foliation plane. Most of the plagioclase is fresh, but incipient clouding by very fine sericite flecks is evident.

Quartz is subequal in abundance to plagioclase, with which it is granoblastically intergrown. Strain extinction is common in the quartz.

Biotite forms flakes ~0.2-0.6 mm long, with pleochroism from reddish brown to very pale straw yellow. The flakes are strongly aligned, and bending or kinking is common.

Muscovite is present in minor amount as small flakes intergrown with biotite.

Other accessory phases include sillimanite, which forms very fine-grained fibrous aggregates intergrown with biotite, and apatite which builds anhedral grains up to ~0.5 mm in size.

The sample represents a peraluminous sediment (e.g. clay-rich quartzo-feldspathic silty sediment) that has suffered dynamic regional metamorphism of moderate grade, generating the strongly foliated assemblage plagioclase + quartz + biotite + minor sillimanite + apatite.

SAMPLE: BM0166(b) (MW016)

Thin Section: C55130

Rock Name:
Brecciated quartzo-feldspathic biotite schist

Hand Specimen:
The rock sample has a fine-grained, grey colour, with fragmental structure.

Brief Petrography:

In thin section, this sample displays a strongly foliated granoblastic metamorphic texture that has been disrupted by brecciation.

The host rock is composed of abundant granoblastic plagioclase and strained quartz, of average grain size ~0.4 mm. Strongly foliated biotite, pleochroic in dark brown to pale yellow, is distributed throughout. Very fine-grained sericite flecks the plagioclase, and the biotite has suffered incipient alteration to green chlorite and associated minute granules of Ti-phase (leucoxene).

Fragments of the host rock several mm to centimetres in size lie in a breccia matrix containing angular fragments of wall rock, together with fragments of mineral components of the wall rock. These angular particles lie in a very fine-grained matrix dominated by white mica (sericite), with small patches of fine-grained anhedral feldspar (possibly K-feldspar).

The sample represents a quartzo-feldspathic biotite schist that has suffered brecciation. Breccia zones were sealed by precipitation of white mica + feldspar.

000182

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

33°10'

SAMPHIRE FLAT

COCATA HILL

E.L. 1527

COCATA CONSERVATION PARK

WARRAMBOO

N

33°20'

MT. WEDGE

33°30'

BARWELL CONSERVATION PARK

LOCK

135°40'

133°30'

138°

32°

35°

CLEVE

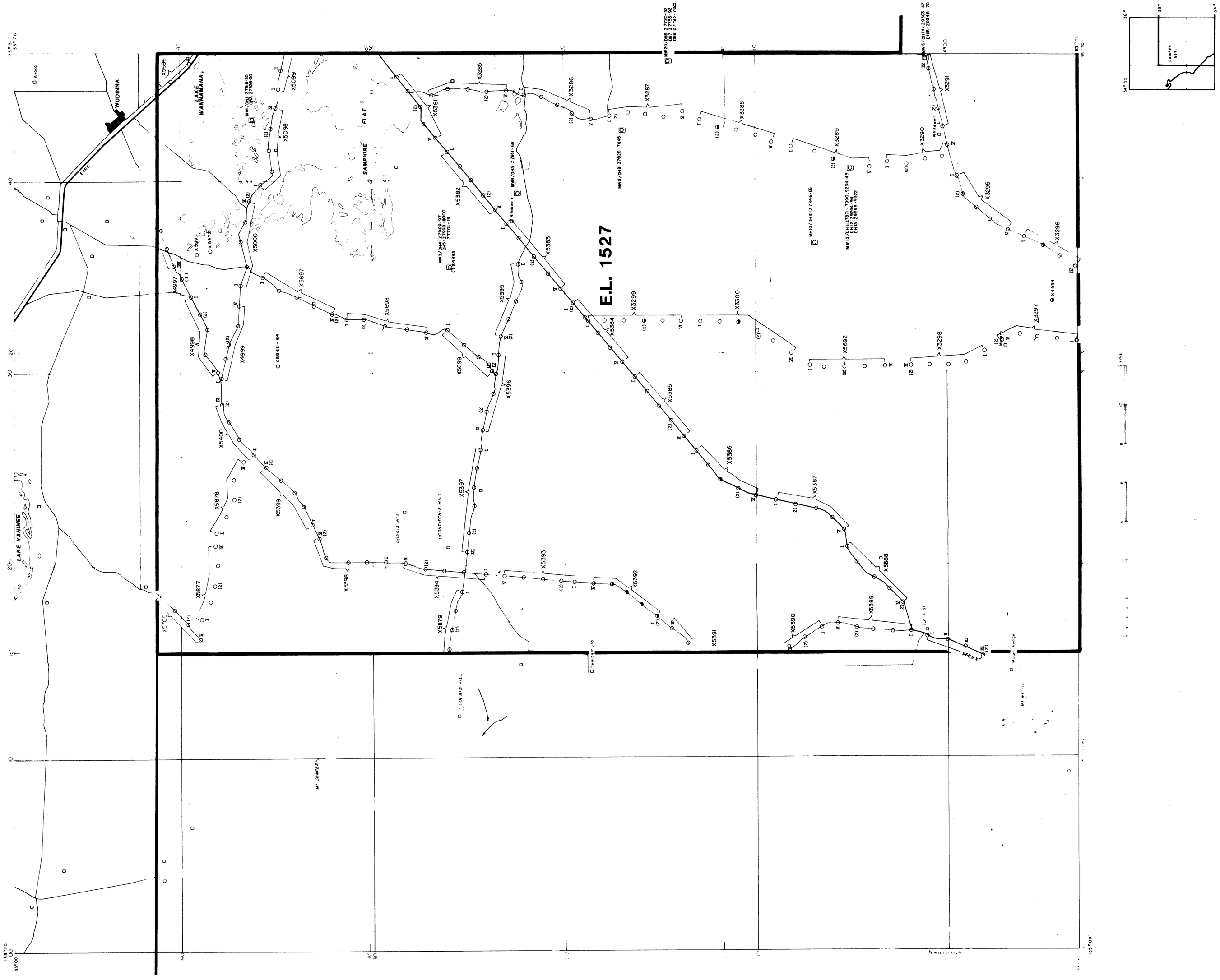
1527

SOUTHERN OCEAN

0 5 10 15kms.

MAP 1

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 **LOCALITY MAP** **EXPLORATION LICENCE 1527** **MT WEDGE**	Compiled PDW Drawn ADS Date JANUARY '89 Scale 1:250,000 Revised SEL 3539



8087-3

8087-3

MAP 2

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA 153-7 KIMBA DAMPER 1:100 000	Compiled Drawn MAK Date
E.L. 1527 MT WEDGE PROJECT	Scale 1:100 000
SAMPLE LOCATIONS	Revised 8/91 SEL.

8087-4

DAMPER 1:100 000 | KOPI 1:100 000

510000mE

6340000mN

SURVEY OUTLINE

WUDINNA

SWAMP

MAJOR BASEMENT FAULT

MW 01

MW 02

MW 03

MW 04

MW 05

MW 06

MW 07

MW 08

MW 09

MW 10

MW 11

MW 12

MW 13

MW 14

MW 15

MW 16

MW 17

MW 18

MW 19

MW 20

MW 21

MH 118

PORDIA HILL
(HILTABA GRANITE OUTCROP)

UNCONTITCHE HILL
(HILTABA GRANITE OUTCROP)

PINTHYPUT HILL

SLEAFORD COMPLEX OUTCROP

UNDERLYING ARCHEAN BASEMENT
AP's SLEAFORD COMPLEX

UNDERLYING PROTEROZOIC BASEMENT. HILTABA SUITE P y b

KYANCUTTA

HWY.

EYRE

WARRAMBOO

MT DAMPER

MT WEDGE

ELLISTON TROUGH

POLDA TROUGH

Qho MOORNABA SAND

Qpb BRIDGE WATER FORMATION

F AEOLIAN CALCARENITE

Pcb Conglom.

DYKE ?

N

F FAULTS (MAJOR)

f FAULTS

INFERRED DYKES

ROADS

EDGE OF ELLISTON (BLUE RANGE BEDS)

SUB-OUTCROPPING/BLUE RANGE BEDS
(CONGLOMERATE WITH HIGH K AND Th LEVELS)

P OUTCROPPING PROTOZOIC GRANITES

A OUTCROPPING ARCHEAN GRANITES

Qho / Qpb BOUNDARY BETWEEN EXPOSED BRIDGEWATER FORM. AND NTH. SAND CLAY COVER

MW 03 ANOMALY

NOTE : AMG's DERIVED FROM PHOTO ENLARGED IMAGE AND ARE SUBJECT TO 50m. E-W / 100m. N-S ERROR

LOCATION MAP

DAMPER | KOPI | SHERINGA | TOOLIGIE

KIMBA 153-7 | WHYALLA 153-8

2 0 2 4 6 8 10 kms

8087-4

MAP 3

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
KIMBA 153-7

MT WEDGE EL 1527

AIRBORNE GEOPHYSICAL INTERPRETATION

Compiled	FWA
Drawn	ADS
Date	3/90
Scale	1:100 000
Revised	
	SEL 3804

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

TWELFTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 OCTOBER 1991

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE TWELFTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 OCTOBER 1991

Edited: F M GAUNT

Author/s: M S MITCHELL

Approved: H R ROBISON

Date: OCTOBER 1991

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 3 Plan Nos.: 2 Table Nos.: 2 Appendices: 1 Plates: -

Keywords: DRILLING, GEOCHEMISTRY

Abstract:

During this quarter an attempt was made to locate an airborne magnetic anomaly in the southern portion of the tenement. The attempt failed due to the anomaly being artificially generated from widely line spaced data and a contouring problem associated with the Geosoft software programme.

Heavy mineral results from drill chips and basal clay geochemistry results became available from the February 1991 drill programme. No apparent kimberlitic rocks were intersected.

Copy to: SADME, IC, WHYALLA

Ref: MSM65

Circulate to:

CONTENTS

TABLES

MAPS

APPENDICES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

TWELFTH QUARTERLY REPORT TO 11 OCTOBER 1991

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula about 2 kilometres south of Wudinna on the Kimba 1:250,000 sheet (Map 1).

Field work conducted this quarter included an attempt to locate a magnetic anomaly east of Mt Wedge. After an exhaustive search failed to locate the anomaly it was found that the anomaly had been falsely generated by the Geosoft software package partly due to the wide (500m East-West) airborne magnetic flight line spacings.

Heavy mineral and bottom of the hole geochemical results from the February 1991 drilling programme became available.

2 FIELD WORK

After an extensive search using a Magellan Global Positioning System and Geometrics 856 magnetometer failed to locate the airborne magnetic target MH118, a review of the flight line data revealed that the Geosoft software package had falsely generated the anomaly. The fault partially lies with the data, 500m East-West flight line spacing, which is too wide for the accurate interpolation or definition of some magnetic anomalies.

3 REMOTE SENSING

TM and radiometric imagery for the western Eyre Peninsula was purchased and enhanced. The imagery was presented on 1:100,000 scale colour photographs for viewing and interpretation. The TM imagery consists of colour composite and clay iron images and the radiometrics data set uses K/Th/Ur counts.

No formal interpretation has been conducted to date, however, in the initial viewing of the TM imagery, the extent of the calcrete and dune cover is visible. Photofeatures displaying structural control could not readily be identified.

The radiometric data image was useful in gaining an understanding of the depth to basement, especially where the basement was at or near surface.

4 DRILLING RESULTS

4.1 Drill Chip Results

Heavy mineral results became available from the February 1991 drilling programme (Map 2, Table 1). Three drill holes 12,13 and 14 recovered kimberlitic indicators, the majority of these from the Tertiary Sands. Indicators in the basal clays of drill holes 12 and 13 may possibly be due to down the hole contamination since they were recovered proximal to fresh, harder basement and considering the drilling technique (rotary mud), contamination between lithogies is common.

Geochemical samples for the entire hole for drillholes 12 and 13 have been sent for analysis to check if the indicators have come from a primary source or secondary host.

4.2 Geochemical Results

Geochemical data from all eight drilled magnetic anomalies became available during this period. Appendix 1 lists the results of the 34 element x-ray fluorescence determinations along with analytical results for Au and Pd.

No geochemical kimberlitic signatures were observed in the basal clays of each hole.

5 FORWARD WORK PROGRAMME

A total of six airborne magnetic anomalies require ground magnetic surveying, MW02, 08, 09, 11, 17 and MW21. The ground magnetic signatures of these anomalies will be evaluated and may be drilled if considered worthy of further work (locations shown on Map 2).

6 STAFF

Staff employed in field work in EL1527 were :

Geologists	2

The project has been supported by the facilities of the Regional Office in Whyalla, the personnel and facilities of the Research/Technical department and Head Office in Melbourne.

6 EXPENDITURE

Expenditure of $24,133 has been allocated as shown in Table 2.

M S Mitchell
Senior Geologist
Whyalla

H R Robison
Chief Geologist-South

TABLE 1 : DRILL HOLE KIMBERLITIC RESULTS SUMMARY

DH NO	DATE DRILLED	ANOMALY NO (MH)	SHEET 1:50 000	EASTING	NORTHING	GRID CO-ORDS E - W		DEPTH TO BASE QUAT. CALC-ARENITES	DEPTH TO BASE CLAYS	DEPTH TO BASE TERT. SANDS	DEPTH TO BASE CLAYS (basal)	SAMPLE NUMBERS	BASEMENT INTERSECTION	QUATERNARY	TERTIARY	BASAL CLAYS
1	8/2/91	MW01	PALABIE	543185	6335820	5050E	5120N	6	14	18	36	Z7918-35	Z7935	Negative	Negative	Negative
2	8/2/91	MW01	PALABIE	543185	6335820	5050E	4950N	8	14	28	32	Z7936-50	Z7950	Negative	Negative	Negative
3	8/2/91	MW04	PALABIE	539374	6322470	5000E	4980N	6	14	32	36	Z7951-68	Z7968 BM0161	Negative	Negative	Negative
4	9/2/91	MW03	PALABIE	535474	6325920	5350E	5090N	4	12	42	58	Z7969-97	Z7997	Negative	Negative	Negative
5	9/2/91	MW03	PALABIE	535474	6325920	5000E	5010N	2	18	40	42	Z7998-800 Z7701-19	Z7719	Negative	Negative	Negative
6	9/2/91	MW20	COCATA	546250	6314520	5000E	4940N	2	10	50	66	Z7720-52	Z7752	Negative	Negative	Negative
7	9/2/91	MW20	COCATA	546250	6314520	5000E	5000N	2	12	72	80	Z7753-92	Z7792	Negative	Negative	Negative
8	10/2/91	MW20	COCATA	546250	6314520	5000E	4960N	2	18	50	66	Z7793-825	Z7825	Negative	Negative	Negative

DH NO	DATE DRILLED	ANOMALY NO (MH)	SHEET 1:50 000	EASTING	NORTHING	GRID CO-ORDS E	GRID CO-ORDS W	DEPTH TO BASE QUAT. CALC-ARENITES	DEPTH TO BASE CLAYS	DEPTH TO BASE TERT. SANDS	DEPTH TO BASE CLAYS (basal)	SAMPLE NUMBERS	BASEMENT INTERSECTION	QUATERNARY	TERTIARY	BASAL CLAYS
9	10/2/91	MW05	COCATA	543687	6316957	5100E	5000N	2	12	38	42	Z7826-45	Z7845	Negative	Negative	Negative
10	10/2/91	MW10	COCATA	536940	6306945	5000E	4995N	10	16	42+		Z7846-66	Z7866	Negative	Negative	---
11	10/2/91	MW13	COCATA	540724	6300495	5100E	4950N	10	14	52	80	Z7871-900	Z7900	Negative	Negative	Negative
12	11/2/91	MW13	COCATA	540724	6300495	5100E	4800N	2	14	94	101	Z9244-94	Z9294	1 kimberlitic spinel (0 - 2m)	4 kimberlitic spinels (10 - 12m)	1 kimberlitic spinel (96 - 98m)
13	11/2/91	MW13	COCATA	540724	6300495	4500E	4925N	8	14	52	57	Z9295-322	Z9322	Negative	1 kimberlitic spinel (14 - 16m)	1 kimberlitic garnet (54 - 56m)
14	11/2/91	MW16	COCATA	546440	6300920	4950E	4840N	4	8	36	50	Z9323-47	Z9347 BM0166	Negative	1 kimberlitic garnet (8 - 10m)	Negative
15	12/2/91	MW16	COCATA	546440	6300920	4950E	5000N	8	20	34	46	Z9348-70	Z9370	Negative	Negative	Negative

Table 2 Expenditure Report EL1527 : Mt Wedge
For the Period Ending 30 September 1991

	$
OPERATIONAL STAFF COSTS	1 199
GENERAL OPERATING EXPENSES	270
TRANSPORT AND TRAVEL	194
TECHNICAL SERVICES : GEOPHYSICS	324
: REMOTE SENSING	1 121
CENTRAL TREATMENT PLANT	9 919
LABORATORY :	
TREATMENT	2 700
EXAMINATION	3 334
ADMINISTRATION :	
REGIONAL OFFICE	1 879
HEAD OFFICE	2 416
CAPITAL UTILISATION	777
TOTAL THIS PERIOD	$ 24 133
TOTAL PREVIOUSLY REPORTED	$ 270 849
TOTAL EXPENDITURE TO DATE	$ 294 982

APPENDIX 1

1991 Geochemical Results

ANGLO AMERICAN RESEARCH LABORATORIES

X-RAY FLUORESCENCE GROUP

MULTI-ELEMENT ANALYSIS BY X-RAY FLUORESCENCE SPECTROMETRY

GEOLOGICAL DEPARTMENT REFERENCE NO. : GD/91/0430

LABORATORY REFERENCE NO. : X/91/0538

FIELD REFERENCE NO. : MBSPL/91/01

REGIONAL OFFICE : MB

GEOLOGIST : DE BEERS

Attached are the results of the ARL 72000S X-ray fluorescence determination of 34 major, minor and trace elements in 83 PDCHIPS samples submitted by the Consulting Geologist. The major and minor elements (marked %) were determined using pressed powder briquettes and, in part, by Energy Dispersive Spectrometry. In consequence, the results for these elements are relatively less accurate and less precise than those for the trace elements.

See attached page for an explanation of the comment codes.

All results will be kept for a minimum period of six months after the date on this report. Requests for such data should give the laboratory and Head Office reference numbers.

REMARKS:

Fluorine is not included in the 36 element package as the monochromator was damaged beyond repair.

At present the Sodium channel is down on the ARL 72000S spectrometer multi element programme.

The spectrometer has therefore been calibrated to exclude the element which is faulty.

Where Al203 is very high the following elements may be slightly depressed:- Ni, Sb, Bi, U, Sn, Te and F.

There is a possibility that W and Ta may be slightly enhanced.

Ba at high levels will be considerably underestimated - possibly by as much as 50% relative.

At levels of up to 1% Ba, the following effects will occur:-

Enhancement: Te, Bi, Nb, V, Ti, U, As, W, Pb and P.

Depression : Sb, Sn and F.

In the presence of high percentage levels of Ba, other analyte trace elements may be effected as follows:-

Enhancement: Te, Sb, Sn, Bi, Nb, V, Ti, U, As, W, Pb, Ta, Cu, F and P.

The following elements are unreliable in the presence of high Fe:- Te, Sb, S, W, Ta and Co.

Where Fe is very high all trace element analyses must be considered as estimates only.

The following effects are possible in the presence of high Cu:-

Enhancement: Ta and W may be considerably enhanced, Zn, Ni, Co, Ba

Pb, Bi, As, Mo and U will be enhanced to a lesser degree.

Unreliable : Where Cu is very high Te, Sb and Sn analyses will be Unreliable.

The following effects are possible in the presence of high Zn:-

Enhancement: W, Ta, Cu, Na, Ni, Co, Ba and Pb.

Depression : Bi will be depressed when Zn is very high.

Unreliable : Sb, Te, Sn and F.

for B.E. Jackson
HEAD: X-RAY FLUORESCENCE SECTION

INVESTIGATORS : SP/SK/BV Date : 13-Aug-91

ANALYSIS NO.		1	1
O.B.NO.			
SAMPLE-NUMBER			
Ni	g/t	0A	0A
Cu	g/t	1A	1A
Zn	g/t	0A	0A
Pb	g/t	0A	0A
Co	g/t	2A	2A
Mo	g/t	7A	7A
S	%	0.0A	0.0A
As	g/t	9A	9A
Se	g/t	3A	3A
Sb	g/t	18A	18A
Bi	g/t	6A	6A
Fe	%	0.0A	0.0A
Mn	%	0.0A	0.0A
Cr	%	0.0A	0.0A
TiO2	%	0.0A	0.0A
V2O5	%	0.0A	0.0A
Sr	g/t	0A	0A
Ba	g/t	0A	0A
U3O8	g/t	0A	0A
ThO2	g/t	9A	9A
U/Th		-	-
Sn	g/t	28A	28A
WO3	g/t	5A	5A
Ta2O5	g/t	23A	23A
Nb2O5	g/t	0A	0A
Zr	g/t	0A	0A
Rb	g/t	0A	0A
Y	g/t	0A	0A
P2O5	%	0.0A	0.0A
K	%	0.0A	0.0A
Ca	%	0.0A	0.0A
Te	g/t	44A	44A
F	%	0.0A	0.0A
SiO2	%	0.0A	0.0A
Al2O3	%	0.0A	0.0A
Mg	%	0.0A	0.0A
Na	%	0.0A	0.0A

NOTE : A = RECOMMENDED ADJUSTMENT. More accurate results MAY be obtained by adding these values to the reported results.

CAUTION - Results are reported to a one standard deviation detection limit !
N.D. = Not Determined. Elements marked '?' MAY be inaccurate if an undetermined element is present.
C = Result exceeds calibration limit & MAY have enhanced elements marked E. Only serious if warning is printed above.
T = Bad major elements total (<90% >110%, as oxides). Refers to columns marked %. Only relevant if all majors determined.
L = May be inaccurate due to low sample mass.

AMERICAN GEOLABS LIMITED
X-RAY FLUORESCENCE GROUP

ANALYSIS NO.		5/1	6/2	7/3	8/4	9/5	10/6	11/7	12/8	13/9	14/10	15/11	16/12	17/13	18/14	19/15	20/16	21/17	22/18	23/19	24/20
Q.D.NO.		5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI
SAMPLE-		Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
NUMBER		7927	7928	7929	7930	7931	7932	7933	7934	7935	7949	7950	7990	7991	7992	7993	7994	7995	7996	7997	7745
		DH01 /MW01									DH02/MW01		DH04 /MW03								DH06 MW20
Ni	g/t	3	1	3	14	5	10	5	9	12	12	10	2	3	4	6	6	5	4	5	43
Cu	g/t	4	4	4	2	1	5	3	5	5	11	13	4	6	5	6	6	5	4	5	5
Zn	g/t	16	23	15	22	18	50	37	78	51	46	20	57	20	14	12	31	27	26	16	37
Pb	g/t	3	4	64	8	2	26	21	28	16	10	1	9	11	8	7	13	16	17	26	14
Co	g/t	-3	-3	-4	1	-2	0	-1	-1	1	5	4	-3	-5	-6	-7	-5	-6	-6	-6	17
Mo	g/t	-4	-5	-1	-2	-4	-4	-4	-3	-3	3	7	0	-3	-4	-2	-3	-4	-5	-4	-4
S	%	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.4	0.5	0.6	0.8T	0.8	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.9
As	g/t	-9	-11	-17	8	-1	0	2	-2	4	3	0	-9	-9	-18	-13	-14	-9	-11	7	36
Se	g/t	-1	1	0	-2	-2	-2	0	-1	-1	-1	-1	-3	-2	-4	-3	-3	-2	-2	1	-1
Sb	g/t	-26	-22	-11	-16	-6	-8	-11	-13	-10	-3	0	-30	-24	-13	-12	-10	-7	-6	-14	-4
Bi	g/t	-7	-8	-8	-6	-5	-6	0	-1	-4	-2	-2	-9	-7	-11	-10	-7	-5	-6	-2	0
Fe	%	1.2	1.1	1.2	1.6	1.0	1.3	1.0	1.1	1.4	1.6	1.7T	2.4	1.4	1.1	0.9	1.2	1.0	0.8	0.7	4.1
Mn	%	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4T	0.4	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.8
Cr	%	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1T	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1
TiO2	%	0.5	0.5	0.6	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4T	0.6	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.6
V2O5	%	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3T	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Sr	g/t	161	117	80	94	49	96	138	156	224	284	154	31	23	19	25	32	54	49	107	16
Ba	g/t	72	172	248	178	224	490	690	648	617	738	294	191	189	167	233	290	557	888	906	226
U3O8	g/t	7	6	6	6	4	7	9	9	10	12	8	3	2	0	2	4	5	7	5	7
ThO2	g/t	-11	-11	-8	-7	-13	-1	1	4	1	-6	-13	-9	-5	0	4	0	7	6	12	0
U/Th		-	-	-	-	-	-	7.6	2.1	-	-	-	-	-	-	0.6	-	0.3	1.0	0.5	-
Sn	g/t	-38	-33	26	-27	-29	-17	-20	-26	-27	-25	-22	-39	-36	-30	-31	-31	-24	-23	-23	-23
WO3	g/t	-6	-3	0	5	6	9	9	5	4	20	5	5	9	10	10	6	9	7	9	5
Ta2O5	g/t	-14	-9	-3	-6	0	4	3	-1	-7	-1	-3	2	4	10	8	4	3	4	2	-6
Nb2O5	g/t	3	4	9	5	4	11	7	8	6	6	4	13	9	13	12	9	10	10	8	10
Zr	g/t	108	115	282	140	93	179	109	150	115	178	182	430	259	172	183	184	135	108	95	193
Rb	g/t	32	31	47	41	31	77	94	88	76	63	19	49	30	31	39	54	106	128	173	41
Y	g/t	13	11	14	8	7	10	10	19	20	15	10	15	11	12	12	12	16	16	15	12
P2O5	%	1.6	0.9	0.5	-0.2	-0.7	0.8	0.8	1.1	1.0	0.3	-0.5T	0.7	0.5	0.5	0.9	-0.1	0.4	0.6	0.2	0.5
K	%	1.0	1.0	1.5	1.4	1.2	2.7	4.1	4.0	3.3	2.6	0.9T	1.4	1.0	0.8	1.1	1.5	2.8	3.4	4.2	1.0
Ca	%	8.6	6.3	3.2	2.9	1.8	1.0	0.8	1.8	3.5	1.1	0.8T	0.5	0.6	0.4	0.4	0.4	0.3	0.4	0.5	0.4
Te	g/t	-50	-45	-50	-35	-35	-34	-29	-26	-31	-31	-34	-62	-43	-50	-50	-43	-32	-25	-4	-35
F	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SiO2	%	70.9	78.4	82.3	90.0	97.6	78.1	77.3	76.8	77.1	83.6	98.0T	74.9	79.3	81.8	76.2	88.8	85.1	84.6	85.0	73.8
Al2O3	%	3.6	4.3	6.9	5.7	4.7	11.3	12.2	11.3	7.8	8.9	5.2T	9.1	9.4	12.4	13.6	9.0	10.3	11.6	8.2	12.6
Mg	%	2.8	2.0	1.1	0.7	0.3	0.2	0.0	0.0	0.1	0.2	0.2T	0.5	0.4	0.2	0.2	0.2	0.1	0.0	0.0	0.2
Na	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NOTE :

CAUTION - Results are reported to a one standard deviation detection limit !

N.D. = Not Determined. Elements marked '?' MAY be inaccurate if an undetermined element is present.
C = Result exceeds calibration limit & MAY have enhanced elements marked E. Only serious if warning is printed above.
T = Bad major elements total (<90% >110%) as oxides). Refers to columns marked %. Only relevant if all majors determined.
L = May be inaccurate due to low sample mass.

ANGLO AMERICAN RESEARCH LABORATORY
X-RAY FLUORESCENCE ANALYSIS

DH6 / MW20 | DH7 / MW20 | DH8 / MW20

ANALYSIS NO.		25/21	26/22	27/23	28/24	29/25	30/26	31/27	32/28	33/29	34/30	35/31	36/32	37/33	38/34	39/35	40/36	41/37	42/38	43/39	44/40
O.B.NO.		5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI
SAMPLE-		Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	RB
NUMBER		7746	7747	7748	7749	7750	7751	7752	7789	7790	7791	7792	7818	7819	7820	/821	7822	7823	7824	7825	579
Ni	g/t	19	15	15	30	22	22	21	39	40	32	25	52	26	25	27	34	23	24	29	25
Cu	g/t	3	4	1	-6	-6	-3	-3	1	-1	6	-4	19	13	17	10	6	13	8	6	23
Zn	g/t	47	79	58	62	60	69	51	60	124	40	49	50	37	45	37	465	87	72	42	79
Pb	g/t	7	10	8	12	7	13	13	1	6	-2	20	24	17	28	17	7	11	15	14	9
Co	g/t	7	4	7	12	1	10	10	9	36	15	4	16	3	7	10	9	4	5	7	6
Mo	g/t	-6	-6	-6	-6	-6	-6	-3	-7	-7	-8	-6	-6	-7	-7	-6	-7	-7	-9	-8	-3
S	Z	0.7	0.5	0.4	0.4	0.3T	0.2T	0.2	0.2	0.2	0.3	0.1	0.7	0.6	0.4	0.3	0.2	0.2	0.2	0.2	0.0
As	g/t	31	3	6	6	2	13	22	-4	14	-2	-4	48	15	9	6	3	1	-4	11	-2
Se	g/t	0	-1	-1	0	0	0	0	-1	4	0	0	-3	-3	-1	-2	-2	-2	-3	-1	-2
Sb	g/t	-11	-8	-5	-15	-8	-9	-4	-28	-40	-8	-2	14	-8	-13	-15	-8	-16	-18	-20	-2
Bi	g/t	0	0	0	3	0	3	2	0	3	1	3	-7	-6	-1	-4	-2	-4	-4	-2	-2
Fe	Z	4.0	3.8	5.3	11.1	11.0T	8.1T	6.7	15.4	14.9	9.9	7.1	3.5	3.5	7.5	9.4	11.4	8.5	11.8	12.0	3.2
Mn	Z	0.8	0.8	1.2	2.1	2.1T	2.2T	2.2	2.3	2.1	1.8	1.6	0.7	0.7	2.0	2.5	2.8	2.2	2.7	2.7	0.6
Cr	Z	0.2	0.2	0.2	0.2	0.2T	0.2T	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.1
TiO2	Z	0.5	0.5	0.5	0.6	0.7T	0.7T	0.6	0.6	0.5	0.5	0.5	1.0	0.9	0.9	0.7	0.6	0.8	0.8	0.7	0.9
V2O5	Z	0.3	0.3	0.3	0.3	0.3T	0.3T	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Sr	g/t	15	13	29	62	89	112	126	36	46	46	127	29	20	30	28	29	34	72	50	260
Ba	g/t	174	220	234	658	964	1264C	1318C	487	450	416	1360C	213	194	362	358	358	326	430	465	1307C
U3O8	g/t	6	6	8	15	13	13	15	14	14	12	13	5	4	12	9	13	8	11	11	12
ThO2	g/t	-5	-5	-4	-4	-1	1	3	-9	-1	-11	-8	8	0	1	-1	-5	1	-3	-1	3
U/Th		-	-	-	-	-	-	5.3	-	-	-	-	0.7	-	11.3	-	-	-	-	-	3.5
Sn	g/t	-25	-24	-24	-22	-22	-29	-20	-29	-28	-22	-19	-27	-26	-32	-28	-21	-29	-28	-23	-18
WO3	g/t	3	5	2	-5	-12	-2	-1	-20	-20	-11	-5	11	8	8	-5	-7	-3	-7	-9	3
Ta2O5	g/t	-11	-9	-15	-30	-28	-18	-16	-44	-44	-30	-22	3	0	-11	-24	-32	-20	-29	-29	-5
Nb2O5	g/t	6	6	7	9	10	11	11	7	3	6	5	21	18	16	12	10	14	13	12	18
Zr	g/t	153	120	149	115	122	118	111	108	73	104	69	284	274	208	175	149	188	120	136	245
Rb	g/t	29	33	37	72	115	164	161	40	26	44	158	73	49	51	34	31	46	40	34	110
Y	g/t	9	9	18	64	40	27	24	11	11	11	34	20	18	17	18	20	21	27	23	36
P2O5	Z	0.8	0.7	0.4	1.5	1.6T	1.9T	1.7	1.6	1.5	0.9	1.5	1.4	1.2	1.6	1.3	1.7	1.7	1.8	1.9	1.4
K	Z	0.7	0.8	0.8	1.3	1.9T	2.9T	3.4	0.8	0.6	0.8	4.3	1.3	1.0	0.9	0.7	0.6	0.9	0.7	0.7	2.3
Ca	Z	0.4	0.4	0.5	0.5	0.7T	0.7T	0.7	0.6	0.9	0.7	0.5	0.3	0.3	0.4	0.4	0.5	0.4	0.5	0.6	2.5
Te	g/t	-38	-32	-36	-38	-41	-40	-29	-48	-25	-34	-29	-41	-40	-52	-41	-44	-52	-47	-55	-14
F	Z	0.0	0.0	0.0	0.0	0.0T	0.0T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SiO2	Z	75.5	76.8	78.9	58.2	54.5T	52.5T	60.7	53.1	56.2	65.1	61.6	61.0	66.8	54.7	58.1	57.4	57.2	49.2	50.0	68.0
Al2O3	Z	9.6	10.3	8.3	10.3	10.7T	11.7T	11.0	8.5	6.2	8.5	9.9	19.8	17.8	20.1	17.1	14.4	17.7	18.9	16.4	12.1
Mg	Z	0.2	0.2	0.2	0.3	0.6T	0.6T	0.3	0.3	0.3	0.3	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Na	Z	0.0	0.0	0.0	0.0	0.0T	0.0T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NOTE :
CAUTION - Results are reported to a one standard deviation detection limit !
N.D. = Not Determined. Elements marked '?' MAY be inaccurate if an undetermined element is present.
C = Result exceeds calibration limit & MAY have enhanced elements marked E. Only serious if warning is printed above.
T = Bad major elements total (<90% >110%, as oxides). Refers to columns marked %. Only relevant if all majors determined.
L = May be inaccurate due to low sample mass.

	DH9/MW05		DH10/MW10		DH11/MW13						DH11/MW13									DH12 MW13
ANALYSIS NO.	45/41	46/42	47/43	48/44	49/45	50/46	51/47	52/48	53/49	54/50	35/51	56/52	57/53	58/54	59/55	60/56	61/57	62/58	63/59	64/60
Q.D.NO.	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI
SAMPLE-NUMBER	Z 7844	Z 7845	Z 7865	Z 7866	Z 7897	Z 7898	Z 7899	Z 7900	Z 9234	Z 9235	Z 9236	Z 9237	Z 9238	Z 9239	Z 9240	Z 9241	Z 9242	Z 9243	RC 199	Z 9291
Ni g/t	0	8	1	0	19	20	23	19	16	25	24	19	16	13	14	15	26	17	26	16
Cu g/t	2	3	3	1	11	11	12	10	10	12	11	7	11	6	8	7	6	8	21	8
Zn g/t	12	6	2	1	64	39	50	109	49	56	48	133	133	53	62	53	61	81	81	56
Pb g/t	13	13	-4	-5	19	18	18	17	16	21	17	16	14	19	17	17	15	14	17	21
Co g/t	-4	-4	-5	-4	3	5	5	4	7	7	7	7	6	4	6	4	6	7	11	4
Mo g/t	-4	-5	-2	-2	-3	-5	-6	-5	-6	-6	-6	-4	-5	-6	-5	-3	-6	-5	-4	-7
S Z	0.4	0.2	0.2T	0.2T	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.4	0.4	0.5	0.5	0.4	0.3	0.0	0.1
As g/t	-3	-4	-19	-15	-10	-4	1	-3	-2	-1	-3	0	-5	-1	-2	-5	-5	-7	12	-4
Se g/t	-1	-1	-2	-1	-2	-2	-1	-1	-1	-1	-2	-1	-1	-1	-1	-1	-1	-2	-2	-2
Sb g/t	-13	-4	-20	-25	-11	-3	-10	-5	-6	-5	-6	-4	1	1	2	1	6	3	17	-2
Bi g/t	-4	-2	-5	-4	-5	-4	-1	-3	-2	-1	-4	0	-3	0	-2	-1	-1	-2	-4	-5
Fe Z	0.6	0.7	0.8T	0.6T	2.7	2.9	3.1	3.4	4.0	3.6	3.4	3.5	2.9	2.6	2.6	2.6	2.7	2.2	4.1	2.4
Mn Z	0.2	0.2	0.3T	0.2T	0.7	0.7	0.8	0.8	0.9	0.8	0.7	0.8	0.6	0.6	0.6	0.6	0.6	0.5	0.7	0.5
Cr Z	0.2	0.2	0.2T	0.1T	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2
TiO2 Z	0.4	0.3	0.2T	0.2T	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.6	0.9	0.7
V2O5 Z	0.3	0.3	0.3T	0.3T	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Sr g/t	196	300	7	4	100	68	62	86	65	65	77	84	66	68	70	75	72	80	207	71
Ba g/t	1288C	1531C	191	168	501	633	650	592	609	624	679	693	590	501	553	824	768	639	1229C	940
U3O8 g/t	6	9	3	2	7	8	10	9	10	11	8	11	10	11	9	8	10	9	13	7
ThO2 g/t	-7	-7	-18	-14	3	7	8	4	4	7	7	0	2	0	2	-1	-2	-3	4	9
U/Th	-	-	-	-	2.0	1.2	1.4	2.1	2.1	1.6	1.2	-	4.0	-	4.7	-	-	-	3.1	0.9
Sn g/t	-24	-14	-33	-30	-20	-21	-19	-18	-20	-23	-21	-21	-20	-25	-22	-24	-14	-21	-13	-23
WO3 g/t	4	5	8	6	11	7	8	9	4	5	5	6	7	4	8	7	4	7	7	6
Ta2O5 g/t	3	3	0	0	1	-3	-1	-4	-9	-5	-5	-7	-4	-5	-4	-5	-6	-3	-7	0
Nb2O5 g/t	4	2	1	1	16	12	12	13	11	12	12	11	11	10	11	10	9	10	19	17
Zr g/t	123	81	219	166	247	181	171	186	171	172	176	172	200	209	211	194	193	180	239	225
Rb g/t	79	91	14	11	99	147	157	133	150	148	160	134	147	132	136	129	131	134	135	183
Y g/t	6	6	5	4	32	42	30	25	21	20	22	21	21	21	21	20	21	18	38	27
P2O5 Z	1.0	0.8	-2.4T	-2.8T	0.9	1.0	1.5	1.2	1.2	1.3	1.2	1.1	0.8	1.3	0.8	0.9	0.8	1.2	1.7	1.3
K Z	4.4	4.8	0.8T	0.6T	2.2	3.3	3.5	2.9	3.2	3.1	3.3	2.9	3.2	3.2	3.0	3.1	3.0	3.2	2.6	4.0
Ca Z	0.5	0.7	0.4T	0.4T	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.6	0.5	1.6	1.1	1.1	1.1	1.2	2.1	0.7
Te g/t	-19	0	-42	-39	-35	-38	-37	-33	-30	-24	-26	-27	-31	-25	-29	-28	-20	-24	-19	-31
F Z	0.0	0.0	0.0T	0.0T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SiO2 Z	75.2	79.3	117.0T	117.8T	74.2	71.9	67.6	71.1	69.6	68.3	69.0	74.7	77.3	70.2	76.9	76.3	76.4	73.8	66.0	70.0
Al2O3 Z	10.0	9.6	1.4T	0.9T	13.6	14.2	13.3	12.4	12.0	12.8	12.3	10.2	9.9	11.1	9.5	9.5	9.5	10.8	13.4	12.5
Mg Z	0.0	0.0	0.1T	0.1T	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.4	0.0
Na Z	0.0	0.0	0.0T	0.0T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NOTE :

CAUTION - Results are reported to a one standard deviation detection limit !
N.D. = Not Determined. Elements marked '?' MAY be inaccurate if an undetermined element is present.
C = Result exceeds calibration limit & MAY have enhanced elements marked E. Only serious if warning is printed above.
T = Bad major elements total (<90% >110%, as oxides). Refers to columns marked Z. Only relevant if all majors determined
L = May be inaccurate due to low sample mass.

	DH12/MW13			DH14/MW16							DH15/MW16							DH MW03	DH3/MWN04	
ANALYSIS NO.	65/61	66/62	67/63	68/64	69/65	70/66	71/67	72/68	73/69	74/70	75/71	76/72	77/73	78/74	79/75	80/76	81/77	82/78	83/79	84/80
G.D.NO.	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI	5307SI
SAMPLE-	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	GS	%	%	%
NUMBER	9292	9293	9294	9341	9342	9343	9344	9345	9346	9347	9365	9366	9367	9368	9369	9370	898	7718	7867	7868
Mi g/t	12	8	8	57	52	102	95	73	48	46	47	73	72	57	57	70	30E	10	3	13
Cu g/t	9	7	6	3	2	-1	0	-1	-1	-1	16	10	7	6	17	18	3407C	2	5	26
Zn g/t	47	40	34	80	60	75	92	56	44	44	82	154	120	90	150	115	3177C	12	2	80
Pb g/t	20	14	13	0	-8	1	0	1	0	0	1	6	8	7	14	13	201	-19	1	2
Co g/t	3	2	2	12	12	18	19	18	12	10	4	5	4	2	6	6	206	-2	4	6
<Mo g/t	-7	-6	-7	-6	-6	-8	-6	-5	-6	-6	-3	-7	-6	-5	-5	-6	-4	-2	-4	-7
S %	0.1	0.2	0.3	0.3	0.1	0.1T	0.2T	0.1	0.0T	0.1	0.4	0.2T	0.1	0.1	0.1	0.2T	0.0	0.3	0.2T	0.4T
As g/t	-6	-1	-4	-8	-12	-10	-7	-8	-12	-8	-12	-12	-11	-12	-8	-5	99	-2	-7	-7
Se g/t	-2	-2	-2	-3	-3	-3	-2	-2	-3	-2	-2	-3	-2	-3	-2	-2	-1	-2	0	-2
Sb g/t	-8	2	2	-11	-2	-5	-5	-5	3	0	2	-5	1	5	6	1	33	-9	-26	-2
Bi g/t	-4	-3	-2	-7	-9	-7	-5	-4	-7	-6	-4	-9	-5	-6	-5	-5	9	-9	-1	-7
Fe %	2.3	1.9	1.8	2.2	2.5	3.0T	3.3T	3.5	4.2T	3.6	1.9	2.4T	1.7	1.8	3.0	4.9T	6.1	1.5	1.1T	2.4T
Mn %	0.3	0.4	0.3	0.5	0.5	0.6T	0.7T	0.6	0.8T	0.7	0.4	0.5T	0.4	0.4	0.6	0.8T	1.0	0.3	0.3T	0.5T
Cr %	0.2	0.2	0.1	0.2	0.2	0.2T	0.1T	0.2	0.2T	0.2	0.1	0.2T	0.2	0.1	0.2	0.2T	0.1	0.2	0.2T	0.2T
TiO2 %	0.6	0.5	0.5	0.6	0.6	0.6T	0.6T	0.6	0.7T	0.7	0.4	0.6T	0.4	0.5	0.5	0.8T	0.4	0.9	0.2T	0.6T
V2O5 %	0.3	0.3	0.2	0.3	0.3	0.3T	0.3T	0.3	0.3T	0.3	0.3	0.3T	0.3	0.3	0.3	0.3T	0.3	0.3	0.3T	0.3T
Sr g/t	68	68	69	32	32	76	99	92	134	113	24	49	84	72	136	411	28	333	46	547
Ba g/t	797	678	587	374	404	433	478	508	606	673	233	336	500	496	549	1061C	384	562	176	692
U3O8 g/t	5	8	8	6	6	8	9	11	17	13	5	6	6	7	7	16	10	10	3	13
ThO2 g/t	6	3	-1	-10	-14	-14	-13	-13	-9	-7	-13	-14	-10	-12	-11	-5	22	1	-9	-12
U/Th	0.8	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	-
Sn g/t	-25	-15	-15	-27	-25	-22	-21	-22	-20	-20	-22	-24	-24	-24	-18	-20	25	-30	-25	-27
WO3 g/t	4	7	7	9	6	6	2	0	1	2	6	10	7	5	4	8	67E	6	7	4
Ta2O5 g/t	-1	-1	-2	2	-1	-1	-3	-5	-7	-5	-2	1	2	1	-7	-9	67E	4	-3	-2
Nb2O5 g/t	17	13	11	3	2	2	2	2	7	6	3	3	3	2	2	5	20	13	-1	-1
Zr g/t	232	230	193	111	106	96	103	94	132	133	116	129	166	109	109	143	186	271	51	45
Rb g/t	179	148	127	97	92	84	75	102	126	107	41	131	126	135	99	84	55	70	8	50
Y g/t	26	24	19	35	34	18	14	13	20	16	14	18	24	17	17	24	106	18	3	10
P2O5 %	1.2	1.0	0.9	1.1	1.1	1.3T	1.7T	1.3	1.6T	1.1	-0.2	1.4T	1.1	1.1	1.3	2.4T	1.6	1.7	-1.4T	1.6T
K %	4.0	3.7	3.4	3.1	3.0	2.6T	2.5T	3.2	3.1T	2.9	1.4	3.3T	5.3	5.4	3.5	2.4T	2.1	1.8	0.5T	1.6T
Ca %	0.6	0.8	1.1	0.4	0.3	0.4T	0.8T	0.7	0.6T	0.5	0.7	0.4T	0.3	0.3	1.1	1.7T	2.3	3.0	1.2T	1.9T
Te g/t	-26	-21	-19	-36	-33	-30	-22	-27	-37	-27	-32	-32	-29	-30	-24	-23	-34	-37	-11	-31
F %	0.0	0.0	0.0	0.0	0.0	0.0T	0.0T	0.0	0.0T	0.0	0.0	0.0T	0.0	0.0	0.0	0.0T	0.0	0.0	0.0T	0.0T
SiO2 %	71.9	74.3	79.8	69.7	68.1	65.2T	64.2T	65.5	61.1T	64.8	91.0	63.8T	71.1	68.2	71.9	57.6T	65.1	63.7	110.5T	64.4T
Al2O3 %	10.4	10.0	9.3	13.7	14.1	12.5T	12.3T	11.9	14.6T	12.5	8.3	15.9T	12.9	14.6	11.2	10.4T	12.9	16.5	2.1T	13.3T
Mg %	0.1	0.1	0.2	0.3	0.4	1.0T	1.1T	0.5	0.5T	0.7	0.3	0.1T	-0.2	-0.3	0.2	2.0T	0.3	0.3	0.2T	0.5T
Na %	0.0	0.0	0.0	0.0	0.0	0.0T	0.0T	0.0	0.0T	0.0	0.0	0.0T	0.0	0.0	0.0	0.0T	0.0	0.0	0.0T	0.0T

NOTE :

CAUTION - Results are reported to a one standard deviation detection limit !
N.D. = Not Determined. Elements marked '?' MAY be inaccurate if an undetermined element is present.
C = Result exceeds calibration limit & MAY have enhanced elements marked E. Only serious if warning is printed above.
T = Bad major elements total (<90% >110%, as oxides). Refers to columns marked %. Only relevant if all majors determined.
L = May be inaccurate due to low sample mass.

GO/91/0430

ANGL[illegible] AMERICAN RESEAR[illegible]

[illegible]-RAY FLUORES[illegible]

MBCFL [illegible]/91

2791/0538

DH13/MW13

ANALYSIS NO.		85/81	86/82	87/83
O.D.NO.		5307SI	5307SI	5307SI
SAMPLE-		Z	Z	Z
NUMBER		9320	9321	9322
Ni	g/t	6	5	6
Cu	g/t	3	4	9
Zn	g/t	33	23	25
Pb	g/t	8	7	13
Co	g/t	-3	-3	-2
Mo	g/t	-6	-4	-2
S	Z	0.3	0.2T	0.2T
As	g/t	-15	-15	4
Se	g/t	-2	-2	2
Sb	g/t	-3	-8	-20
Bi	g/t	-4	-2	0
Fe	Z	1.1	0.9T	1.1T
Mn	Z	0.3	0.3T	0.3T
Cr	Z	0.1	0.2T	0.2T
TiO2	Z	0.3	0.3T	0.3T
V2O5	Z	0.3	0.3T	0.3T
Sr	g/t	53	44	39
Ba	g/t	446	494	471
U3O8	g/t	6	6	5
ThO2	g/t	-8	-8	1
U/Th		-	-	3.3
Sn	g/t	-20	-27	-28
WO3	g/t	7	6	8
Ta2O5	g/t	-1	0	-4
Nb2O5	g/t	4	4	2
Zr	g/t	175	126	123
Rb	g/t	90	93	86
Y	g/t	12	10	10
P2O5	Z	-0.2	-0.8T	-0.7T
K	Z	2.5	2.5T	2.4T
Ca	Z	1.0	0.5T	0.4T
Te	g/t	-32	-28	-28
F	Z	0.0	0.0T	0.0T
SiO2	Z	96.0	101.2T	99.6T
Al2O3	Z	5.2	5.1T	4.3T
Mg	Z	0.1	0.1T	0.1T
Na	Z	0.0	0.0T	0.0T

NOTE :

CAUTION - Results are reported to a one standard deviation detection limit !

N.D. = Not Determined. Elements marked '?' MAY be inaccurate if an undetermined element is present.

C = Result exceeds calibration limit & MAY have enhanced elements marked E. Only serious if warning is printed above.

T = Bad major elements total (<90% >110%, as oxides). Refers to columns marked Z. Only relevant if all majors determin[illegible]

L = May be inaccurate due to low sample mass.

000200

GD/91/0430
REPLICATES
1/91 0538

		QH01 MW01	QH04 MW03	QH07 MW20	QH11 MW13	QH12 MW13	QH15 MW16
ANALYSIS NO.		88/1	89/16	90/31	91/46	92/61	93/76
Q.D.NO.		5307SI	5307SI	5307SI	5307SI	5307SI	5307SI
SAMPLE-NUMBER		7927	7994	7792	7898	9292	9370
Ni	g/t	3	6	25	21	12	76
Cu	g/t	4	4	-2	13	8	17
Zn	g/t	15	28	53	40	46	115
Pb	g/t	4	10	21	18	19	15
Co	g/t	-4	-5	4	7	2	26
Mo	g/t	-3	-3	-7	-5	-7	-6
S	%	0.2	0.3	0.2T	0.2	0.1	0.2T
As	g/t	-6	-12	-3	-4	-7	-5
Se	g/t	-1	-3	1	-2	-2	-2
Sb	g/t	-27	-7	-4	-10	-3	3
Bi	g/t	-10	-8	3	-4	-4	-6
Fe	%	1.2	1.1	7.1T	3.0	2.2	5.0T
Mn	%	0.2	0.3	1.6T	0.7	0.5	0.8T
Cr	%	0.1	0.2	0.2T	0.2	0.2	0.2T
TiO2	%	0.4	0.4	0.5T	0.6	0.6	0.8T
V2O5	%	0.2	0.3	0.3T	0.3	0.3	0.3T
Sr	g/t	164	32	129	67	69	416
Ba	g/t	71	298	1341C	616	740	1021
U3O8	g/t	8	3	18	9	7	16
ThO2	g/t	-9	-1	-6	7	8	-5
U/Th		-	-	-	1.2	0.8	-
Sn	g/t	-37	-28	-15	-25	-16	-21
WO3	g/t	-6	9	-2	8	6	3
Ta2O5	g/t	-15	5	-20	-2	0	-10
Nb2O5	g/t	2	10	6	12	16	5
Zr	g/t	99	186	70	186	236	138
Rb	g/t	32	50	164	145	178	84
Y	g/t	13	13	33	43	27	25
P2O5	%	1.5	0.2	1.6T	1.2	1.3	2.6T
K	%	1.0	1.5	4.2T	3.1	3.8	2.4T
Ca	%	8.5	0.5	0.5T	0.4	0.7	1.6T
Te	g/t	-45	-38	-26	-38	-24	-31
F	%	0.0	0.0	0.0T	0.0	0.0	0.0T
SiO2	%	73.1	89.0	59.4T	70.8	72.1	59.1T
Al2O3	%	3.3	9.1	9.9T	12.8	11.5	10.1T
Mg	%	2.8	0.2	0.0T	0.2	0.1	2.1T
Na	%	0.0	0.0	0.0T	0.0	0.0	0.0T

NOTE :

CAUTION - Results are reported to a one standard deviation detection limit !
N.D. = Not Determined. Elements marked '?' MAY be inaccurate if an undetermined element is present.
C = Result exceeds calibration limit & MAY have enhanced elements marked E. Only serious if warning is printed above.
T = Bad major elements total (<90% >110%, as oxides). Refers to columns marked %. Only relevant if all majors determined.
L = May be inaccurate due to low sample mass.

JRESRPT

ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED
ANGLO AMERICAN RESEARCH LABORATORIES - GEOCHEMICAL INTERPRETATION SECTION
EXPLORATION SAMPLE INFORMATION SYSTEM (ExSIS)

G NUMBER : GD910431
******** ********

ANALYTICAL RESULTS FOR GD910431

G NUMBER : GD910431
******** ********

SAMPLE NO	AU PB		PD PB		
Z 7719	M	0	M	0	DH05 / MW03
Z 7927		3	-	1	
Z 7928		2		1	
Z 7929		2	-	1	
Z 7930		1		3	DH01 MW01
Z 7931		1	-	1	
Z 7932		1		2	
Z 7933		2		5	
Z 7934		2		4	
Z 7935		2		3	
Z 7949		5		3	DH02 MW01
Z 7950		5		3	
Z 7967	M	0	M	0	DH03 MW04
Z 7968	M	0	M	0	
Z 7990		5		4	
Z 7991		4		4	
Z 7992		1		2	
Z 7993		1	-	4	
Z 7994		1	-	4	DH4 MW03
Z 7995		0	-	1	
Z 7996		1		0	
Z 7997		2		2	
Z 7745		2		0	
Z 7746		1		0	
Z 7747		1	-	3	
Z 7748		3		4	
Z 7749		6		6	DH6 MW20
Z 7750		0		0	
Z 7751		0		0	
Z 7752		2		0	
Z 7789		1		0	
Z 7790		0		1	
Z 7791		0		1	DH7 MW20
Z 7792		1		1	
Z 7818		0	-	1	
Z 7819		0		1	
Z 7820		0		1	
Z 7821		0	-	1	DH8 MW20
Z 7822		0		0	
Z 7823		0		1	
Z 7824		1		1	
Z 7825		1		0	
FB 579		-	-	1	
Z 7844		1		0	DH09 MW05
Z 7845		0		2	

SAMPLE NO	AU PB		PD PB		
Z 7865		0		1	DH10 MW10
Z 7866		0		1	
Z 7897		1		3	
Z 7898		1		1	DH11 MW13
Z 7899		1		3	
Z 7900		1		1	
Z 9234		1		2	
Z 9235		1		1	
Z 9236		1		3	
Z 9237		1		2	
Z 9238		1		1	
Z 9239		1		1	DH11 MW13
Z 9240		0		1	
Z 9241		1	-	1	
Z 9242		0		1	
Z 9243		1		0	
RC 199		43		0	
Z 9220	M	0	M	0	DH13 MW13
Z 9221	M	0	M	0	
Z 9222		1	-	1	
Z 9223		1		2	DH12 MW13
Z 9224		1		1	
Z 9241		1		1	
Z 9342		1		2	
Z 9343		1		1	DH14 MW16
Z 9344		2	-	1	
Z 9345		2		1	
Z 9346		1		2	
Z 9347		1		1	
Z 9365		2		2	DH15 MW16
Z 9366		1		1	
Z 9367		1		1	
Z 9368		1		1	
Z 9369		1		1	
Z 9370		2		1	
CS 9999		21		0	
Z 7[illegible]		[illegible]		[illegible]	DH05 MW03
Z 78[illegible]		[illegible]		[illegible]	DH03 MW04
Z 7868		1		1	
Z 9320		0		0	
Z 9321		[illegible]		[illegible]	DH13 MW13
Z 9322		0		0	

000203

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

SAMPHIRE FLAT

33°10'

33°10'

COCATA HILL △

N

E.L. 1527

WARRAMBOO

COCATA CONSERVATION PARK

33°20'

33°20'

MT. WEDGE △

33°30'

33°30'

BARWELL CONSERVATION PARK

LOCK

135°20'

135°40'

133°30'

138°

32°

33°20'

35°

CLEVE

1527

SOUTHERN OCEAN

0 5 10 15kms.

MAP 1

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

KIMBA 153-7

LOCALITY MAP
EXPLORATION LICENCE 1527
MT WEDGE

Compiled	PDW
Drawn	ADS
Date	JANUARY '89
Scale	1:250,000
Revised	
SEL 3539	

8087-4

DAMPER 1:100 000 | KOPI 1:100 000

510000mE

6340000mN

SURVEY OUTLINE

WUDINNA

SWAMP

MAJOR BASEMENT FAULT

MW 01

MW 02

MW 03

MW 04

MW 05

MW 06

MW 07

MW 08

MW 09

MW 10

MW 11

MW 12

MW 13

MW 14

MW 15

MW 16

MW 17

MW 18

MW 19

MW 20

MW 21

MH 118

PORDIA HILL
(HILTABA GRANITE OUTCROP)

UNCONTITCHE HILL
(HILTABA GRANITE OUTCROP)

PINTHYPUT HILL

SLEAFORD COMPLEX OUTCROP

UNDERLYING ARCHEAN BASEMENT
AP's SLEAFORD COMPLEX

UNDERLYING PROTEROZOIC BASEMENT. HILTABA SUITE P y b

KYANCUTTA

HWY.

EYRE

WARRAMBOO

MT DAMPER

MT WEDGE

ELLISTON TROUGH

POLDA TROUGH

Qho MOORNABA SAND

Qpb BRIDGE WATER FORMATION

F AEOLIAN CALCARENITE

Pcb Conglom.

DYKE ?

N

F FAULTS (MAJOR)

f FAULTS

INFERRED DYKES

ROADS

EDGE OF ELLISTON (BLUE RANGE BEDS)

SUB-OUTCROPPING/BLUE RANGE BEDS
(CONGLOMERATE WITH HIGH K AND Th LEVELS)

P OUTCROPPING PROTOZOIC GRANITES

A OUTCROPPING ARCHEAN GRANITES

Qho / Qpb BOUNDARY BETWEEN EXPOSED BRIDGEWATER FORM. AND NTH. SAND CLAY COVER

MW 03 ANOMALY

NOTE : AMG's DERIVED FROM PHOTO ENLARGED IMAGE AND ARE SUBJECT TO 50m. E-W / 100m. N-S ERROR

LOCATION MAP

DAMPER | KOPI | SHERINGA | TOOLIGIE

KIMBA 153-7 | WHYALLA 153-8

2 0 2 4 6 8 10 kms

8087-4

MAP 3

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
KIMBA 153-7

MT WEDGE EL 1527

AIRBORNE GEOPHYSICAL INTERPRETATION

Compiled	FWA
Drawn	ADS
Date	3/90
Scale	1:100 000
Revised	
	SEL 3804

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

THIRTEENTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 JANUARY 1992

RB

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria
60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE
THIRTEENTH QUARTERLY REPORT FOR THE
PERIOD ENDING 11 JANUARY 1992

Edited: F M GAUNT

Author/s: M S MITCHELL

Approved: H R ROBISON

Date: DECEMBER 1991

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 2 Plan Nos.: 2 Table Nos.: 1 Appendices: 1 Plates: -

Keywords: DRILLING, GEOCHEMISTRY

Abstract: No field work was conducted during this quarter.

Geochemical results from anomaly MW13 became available this quarter. Two drill holes into this anomaly recovered several kimberlitic type indicators. No kimberlitic type geochemical signatures were observed, the source of the indicators is now considered to be secondary.

Copy to: SADME, IC, WHYALLA

Ref: MSM77

Circulate to:

CONTENTS

TABLES

MAPS

APPENDICES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

THIRTEENTH QUARTERLY REPORT TO 11 JANUARY 1992

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula about 2 kilometres south of Wudinna on the Kimba 1:250,000 sheet (Map 1).

No field work was conducted during this quarter.

Geochemical results from the anomaly MW13 Drill holes 12 and 13 of the February 1991 drilling programme became available.

2 FIELD WORK

No fieldwork was conducted during this quarter.

3 GEOCHEMICAL RESULTS

Geochemical results from anomaly MW13, drill holes 12 and 13 of the February 1991 drilling programme became available. Heavy mineral results, reported in the last quarterly report, indicated kimberlitic type chrome spinels and a pyrope garnet from the drill chips. Geochemical samples from both holes were sent for analysis to determine whether or not kimberlite had been intersected. Results show no kimberlitic type signatures were observed (Appendix 1).

The kimberlitic indicators down the hole are presumed to have come from a secondary host in the Quaternary and Tertiary calcarenites and sands.

4 REMOTE SENSING

An interpretation on the Eyre Peninsula's (including EL1517) Landsat and Radiometric data has been carried out. This report is still being bound and will be detailed in the next quarterly report.

5 FORWARD WORK PROGRAMME

A total of six airborne magnetic anomalies require ground magnetic surveying, MW02, 08, 09, 11, 17 and MW21. The ground magnetic signatures of these anomalies will be evaluated and may be drilled if considered worthy of further work (locations shown on Map 2).

6 STAFF

No staff were employed in field work during this quarter.

The project has been supported by the facilities of the Regional Office in Whyalla, the personnel and facilities of the Research/Technical department and Head Office in Melbourne.

7 EXPENDITURE

Expenditure of $5,917 has been allocated as shown in Table 1.

M S Mitchell
Senior Geologist
Whyalla

H R Robison
Chief Geologist-South

Table 1 Expenditure Report EL1527 : Mt Wedge
For the Period Ending 31 December 1991

		$
OPERATIONAL STAFF COSTS		990
GENERAL OPERATING EXPENSES		8
TRANSPORT AND TRAVEL		49
TECHNICAL SERVICES : DRAFTING		100
: REMOTE SENSING		1 275
CONTRACTORS : GEOCHEMISTRY		2 488
ADMINISTRATION :		
REGIONAL OFFICE		428
HEAD OFFICE		516
CAPITAL UTILISATION		63
TOTAL THIS PERIOD	$	5 917
TOTAL PREVIOUSLY REPORTED	$	294 982
TOTAL EXPENDITURE TO DATE	$	300 899

APPENDIX 1

Anomaly MW13 Geochemical Results

ANALABS

PRELIMINARY ANALYTICAL DATA

CLIENT PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	113500.10.87288	04/12/91	M 10644	1 OF 6

MW13
DH13
(29295-322)

SAMPLE	Mg	K	Ca	Ti	V	Cr	Co	Ni	DEPTH
29295 -80#	0.410	0.870	8.570	1240	15	16	6	10	0-2
29296 -80#	0.540	0.980	9.560	1090	17	49	6	11	2-4
29297 -80#	1.070	0.340	>20.000	863	13	<10	6	12	4-6
29298 -80#	1.220	0.360	>20.000	579	10	<10	6	11	6-8
29299 -80#	3.130	0.660	16.200	936	15	14	10	12	8-10
29300 -80#	1.530	0.670	10.100	1630	42	62	7	13	10-12
29301 -80#	1.050	0.600	5.300	2360	42	44	6	14	12-14
29302 -80#	0.460	0.410	1.620	2630	49	100	<5	10	14-16
29303 -80#	0.400	0.320	1.530	2270	43	26	<5	<10	16-18
29304 -80#	0.170	0.320	1.080	2390	15	21	<5	<10	18-20
29305 -80#	0.190	0.430	0.930	2080	18	56	<5	<10	20-22
29306 -80#	0.140	0.350	0.690	1640	12	12	<5	<10	22-24
29307 -80#	0.080	0.280	0.470	1140	10	66	<5	<10	24-26
29308 -80#	0.120	0.350	0.570	1220	10	11	<5	<10	26-28
29309 -80#	0.090	0.330	0.480	1160	11	73	<5	<10	28-30
29310 -80#	0.100	0.340	0.700	1090	10	<10	<5	<10	30-32
29311 -80#	0.110	0.350	0.520	1220	12	79	<5	<10	32-34
29312 -80#	0.160	0.340	0.670	1100	12	20	<5	<10	34-36
29313 -80#	0.070	0.270	0.570	965	7	60	<5	<10	36-38
29314 -80#	0.160	0.330	0.620	1010	9	17	<5	<10	38-40
29315 -80#	0.160	0.320	0.650	1160	9	12	<5	<10	40-42
29316 -80#	0.200	0.370	0.680	1810	19	127	<5	10	42-44
29317 -80#	0.190	0.390	0.700	1780	16	19	5	10	44-46
29318 -80#	0.210	0.630	0.710	2030	27	149	13	24	46-48
29319 -80#	0.280	0.940	0.760	2570	34	29	17	33	48-50

000212

ANALABS

PRELIMINARY ANALYTICAL DATA

CLIENT PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	113500.10.87288	04/12/91	M 10644	2 OF 6

SAMPLE	Mg	K	Ca	Ti	V	Cr	Co	Ni	DEPTH
29320 -80#	0.300	1.580	0.340	2450	39	102	11	26	50-52
DETECTION	0.002	0.050	0.005	10	2	10	5	10	
UNITS	%	%	%	ppm	ppm	ppm	ppm	ppm	
METHOD	GI201	GI201	GI201	GI201	GI201	GI201	GI201	GI201	

ANALABS

PRELIMINARY ANALYTICAL DATA

CLIENT PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	113500.10.87288	04/12/91	M 10644	3 OF 6

MW13
DH13

SAMPLE	Sr	Y	Zr	Nb	Ba	La	Ce	Ta	DEPTH
Z9295 -80#	347	10	47	<10	276	14	27	<10	0-2
Z9296 -80#	413	9	28	<10	290	11	20	<10	2-4
Z9297 -80#	1050	4	15	<10	80	<5	<15	<10	4-6
Z9298 -80#	894	4	16	<10	81	<5	<15	<10	6-8
Z9299 -80#	515	12	25	<10	105	<5	16	<10	8-10
Z9300 -80#	372	7	45	<10	192	9	17	<10	10-12
Z9301 -80#	215	6	57	<10	191	14	16	<10	12-14
Z9302 -80#	89	4	66	<10	82	9	<15	<10	14-16
Z9303 -80#	78	3	59	<10	78	8	<15	<10	16-18
Z9304 -80#	54	10	222	<10	94	35	64	<10	18-20
Z9305 -80#	53	7	177	<10	131	23	44	<10	20-22
Z9306 -80#	46	5	135	<10	98	15	28	<10	22-24
Z9307 -80#	29	4	92	<10	85	9	20	<10	24-26
Z9308 -80#	34	5	96	<10	99	11	22	<10	26-28
Z9309 -80#	29	4	94	<10	97	10	22	<10	28-30
Z9310 -80#	39	5	90	<10	97	11	23	<10	30-32
Z9311 -80#	33	5	97	<10	104	10	22	<10	32-34
Z9312 -80#	42	6	94	<10	100	11	23	<10	34-36
Z9313 -80#	30	4	77	<10	82	7	15	<10	36-38
Z9314 -80#	39	6	87	<10	98	9	20	<10	38-40
Z9315 -80#	42	6	95	<10	98	10	21	<10	40-42
Z9316 -80#	48	9	174	<10	113	13	27	<10	42-44
Z9317 -80#	47	9	192	<10	113	14	27	<10	44-46
Z9318 -80#	55	12	200	<10	169	21	44	<10	46-48
Z9319 -80#	68	14	238	21	237	29	59	<10	48-50

ANALABS

PRELIMINARY ANALYTICAL DATA

CLIENT PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	113500.10.87288	04/12/91	M 10644	4 OF 6

MW13
DH13

SAMPLE	Sr	Y	Zr	Nb	Ba	La	Ce	Ta	DEPTH
29320 -80#	64	16	198	<10	394	32	67	<10	50-52
DETECTION	1	1	5	10	5	5	15	10	
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
METHOD	GI201	GI201	GI201	GI201	GI201	GI201	GI201	GI201	

000215

ANALABS

PRELIMINARY ANALYTICAL DATA

CLIENT PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	113500.10.87288	04/12/91	M 10644	5 OF 6

SAMPLE	Th	U
Z9295 -80#	<10	<100
Z9296 -80#	<10	<100
Z9297 -80#	<10	<100
Z9298 -80#	<10	<100
Z9299 -80#	<10	<100
Z9300 -80#	<10	<100
Z9301 -80#	<10	<100
Z9302 -80#	<10	<100
Z9303 -80#	<10	<100
Z9304 -80#	16	<100
Z9305 -80#	11	<100
Z9306 -80#	<10	<100
Z9307 -80#	<10	<100
Z9308 -80#	<10	<100
Z9309 -80#	<10	<100
Z9310 -80#	<10	<100
Z9311 -80#	<10	<100
Z9312 -80#	<10	<100
Z9313 -80#	<10	<100
Z9314 -80#	<10	<100
Z9315 -80#	<10	<100
Z9316 -80#	<10	<100
Z9317 -80#	<10	<100
Z9318 -80#	11	<100
Z9319 -80#	17	<100

MW13
DH13

DEPTH

0-2
2-4
4-6
6-8
8-10
10-12
12-14
14-16
16-18
18-20
20-22
22-24
24-26
26-28
28-30
30-32
32-34
34-36
36-38
38-40
40-42
42-44
44-46
46-48
48-50

000216

ANALABS

PRELIMINARY ANALYTICAL DATA

CLIENT PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	113500.10.87288	04/12/91	M 10644	6 OF 6

MW13
DH 13

DEPTH

50-52

SAMPLE	Th	U
29320 -80#	14	<100

DETECTION	10	100
UNITS	ppm	ppm
METHOD	GI201	GI201

000217

ANALABS

A Division of Landscape Inspection and Testing Services Australia Pty. Ltd.

ANALYTICAL DATA

Mt Weld

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No	PAGE
	113500.10.88225	15/01/92	M 11704	1 OF 2

MW13
DH12

TUBE No.	SAMPLE No.	Mg	K	Ca	Ti	V	Cr	Co	Ni	Sr	DEPTH (m)
1	Z 9244	.6380	.6080	253000	607	14	<10	7	12	1030	0-2
2	Z 9245	.8410	.4550	305000	627	17	<10	8	14	998	2-4
3	Z 9246	.8310	.4200	310000	620	17	11	8	14	938	4-6
4	Z 9247	.7070	.3350	336000	470	15	13	8	13	917	6-8
5	Z 9248	.7100	.3390	324000	554	14	<10	8	13	819	8-10
6	Z 9249	.6100	4050	168000	887	20	20	9	11	394	10-12
7	Z 9250	.30200	.5310	130000	1280	31	27	8	13	322	12-14
8	Z 9251	.9240	.7390	18200	3120	87	47	5	10	97	14-16
9	Z 9252	6650	.5790	13700	2840	98	29	<5	<10	70	16-18
10	Z 9253	7520	4210	32100	1840	50	18	<5	<10	.107	18-20
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23	DETECTION	20	500	50	10	2	10	5	10	1	
24	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
25	METHOD	GI201	GI201	GI201	GI201	GI201	GI201	GI201	GI201	GI201	

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

AUTHORISED OFFICER J. Cooper

000218

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

SAMPHIRE FLAT

33°10'

33°10'

COCATA HILL

N

WARRAMBOO

E.L. 1527

COCATA CONSERVATION PARK

33°20'

33°20'

MT. WEDGE

33°30'

33°30'

BARWELL CONSERVATION PARK

LOCK

135°20'

135°40'

133°30'

138°

32°

33°20'

1527

CLEVE

SOUTHERN OCEAN

35°

0 5 10 15kms.

MAP 1

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

KIMBA 153-7

LOCALITY MAP
EXPLORATION LICENCE 1527
MT WEDGE

Compiled	PDW
Drawn	ADS
Date	JANUARY '89
Scale	1:250,000
Revised	
SEL 3539	

000213

SURVEY OUTLINE

MAJOR BASEMENT FAULT

MAJOR BASEMENT FAULT

MAJOR BASEMENT FAULT

FAULT

FAULT

BASEMENT

MW 01
MW 02
MW 03
MW 04
MW 05
MW 06
MW 07
MW 08
MW 09
MW 10
MW 11
MW 12
MW 13
MW 14
MW 15
MW 16
MW 17
MW 18
MW 19
MW 20
MW 21
MH 118

UNDERLYING ARCHEAN BASEMENT AP's SLEAFORD COMPLEX

UNDERLYING PROTEROZOIC BASEMENT. HILTABA SUITE P y b

ELLISTON TROUGH

POLDA TROUGH

Oho MOORNABA SAND

Qpb BRIDGE WATER FORMATION

AEOLIAN CALCARENITE

PINTHYPUT HILL

WARRAMBOO

DYKE ?

Pr.E. Conglom

Pcb Conglom

Pcb Conglom.

N

FAULTS (MAJOR)

FAULTS

INFERRED DYKES

ROADS

EDGE OF ELLISTON (BLUE RANGE BEDS)

SUB OUTCROPPING BLUE RANGE BEDS (CONGLOMERATE WITH HIGH AND LOW RELIEF)

OUTCROPPING PROTEROZOIC GRANITES

OUTCROPPING ARCHEAN GRANITES

BOUNDARY BETWEEN EXPOSED BRIDGEWATER FORM AND WITH SAND CLAY COVER

ANOMALY

NOTE: ANGLE OF VIEW OF PHOTOGRAPHS, ARGE IMAGE ANGLE ARE SUBJECT TO ERROR

LOCATION MAP

AMATA KOPI

KIMBA 153-7

WHYALLA 153-8

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
KIMBA 153-7

MT WEDGE EL 1527

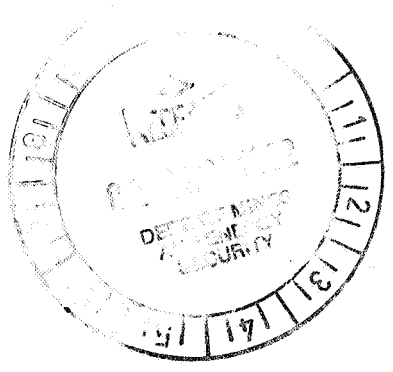
AIRBORNE GEOPHYSICAL INTERPRETATION

Compiled	FWA
Drawn	ADS
Date	3 90
Scale	1:250 000
Revised	
	SEL 5804

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

FOURTEENTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 APRIL 1992



000221

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria

60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE NO 1527 : MT WEDGE FOURTEENTH QUARTERLY REPORT FOR THE PERIOD ENDING 11 APRIL 1992

Edited: F M GAUNT

Author/s: S C FINLAY

Approved: H R ROBISON

Date: APRIL 1992

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-7

Text Pages No.: 2 Plan Nos.: 2 Table Nos.: 2 Appendices: _ Plates: _

Keywords:

Abstract:

Field work this quarter involved ground follow up of airborne magnetic targets and some related sampling. The results of the Landsat and radiometric data interpretation proved disappointing as little useful information could be gleaned from the interpretation.

Copy to: SADME, IC, WHYALLA

Ref: SCF12

Circulate to:

CONTENTS

TABLES

MAPS

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

FOURTEENTH QUARTERLY REPORT TO 11 APRIL 1992

1 INTRODUCTION

Exploration Licence No 1527 is located on the north western Eyre Peninsula about 2 kilometres south of Wudinna on the Kimba 1:250,000 sheet (Map 1).

Field work during the quarter consisted of ground magnetic follow-up of four aeromagnetic targets.

An interpretation of Landsat and radiometric data has also been received.

2 FIELD WORK

Four of the six remaining Mt Wedge anomalies were followed up this quarter. These included MW02, 08, 09 and 21 (Map 2). The resultant colour plots and culture maps (where applicable) are included in the Appendix. The results have yet to be examined by the SPL Geophysicist so that we are awaiting interpretation which will be summarised in the subsequent quarterly report.

Permission has been obtained to access MW17 via a rolled track (re : Dept. Mines and Energy letter 25/3/92) subject to the guidelines contained within the above correspondence.

Loam samples were taken over the centre of five of the magnetic anomalies (Table 1). We are currently awaiting these results.

Table 1 : Sample Listing

Anomaly	Sample Number
MW02	X7496
MW08	X7498
MW09	X7499
MW11	X7500
MW21	X7497

NB : Material collected ~30kg deflation material screened on site to -1 + 0.3mm.

3 REMOTE SENSING

The interpretation of radiometric and Landsat imagery, unfortunately has not contributed greatly to our understanding of the area. The 'masking effect' of the Bridgewater Formation calcarenites prevented any work of this nature, in relation to structural features, from being discernible. The interpretation has also been unsuccessful in identifying any features associated with the airborne magnetic anomalies.

4 FORWARD WORK PROGRAMME

The two remaining airborne magnetic targets (MW11 and MW17) require ground follow-up. Evaluation of the results along with those included in this report will determine the likelihood of another drilling programme in the area. Results from the sampling are also pending assessment.

5 STAFF

Staff employed during this quarter are as follows :

Geologists	2
Field Assistants	7

The project has been supported by the facilities of the Regional Office in Whyalla, the personnel and facilities of the Research/Technical department and Head Office in Melbourne.

6 EXPENDITURE

Expenditure of $14629 has been allocated as shown in Table 2.

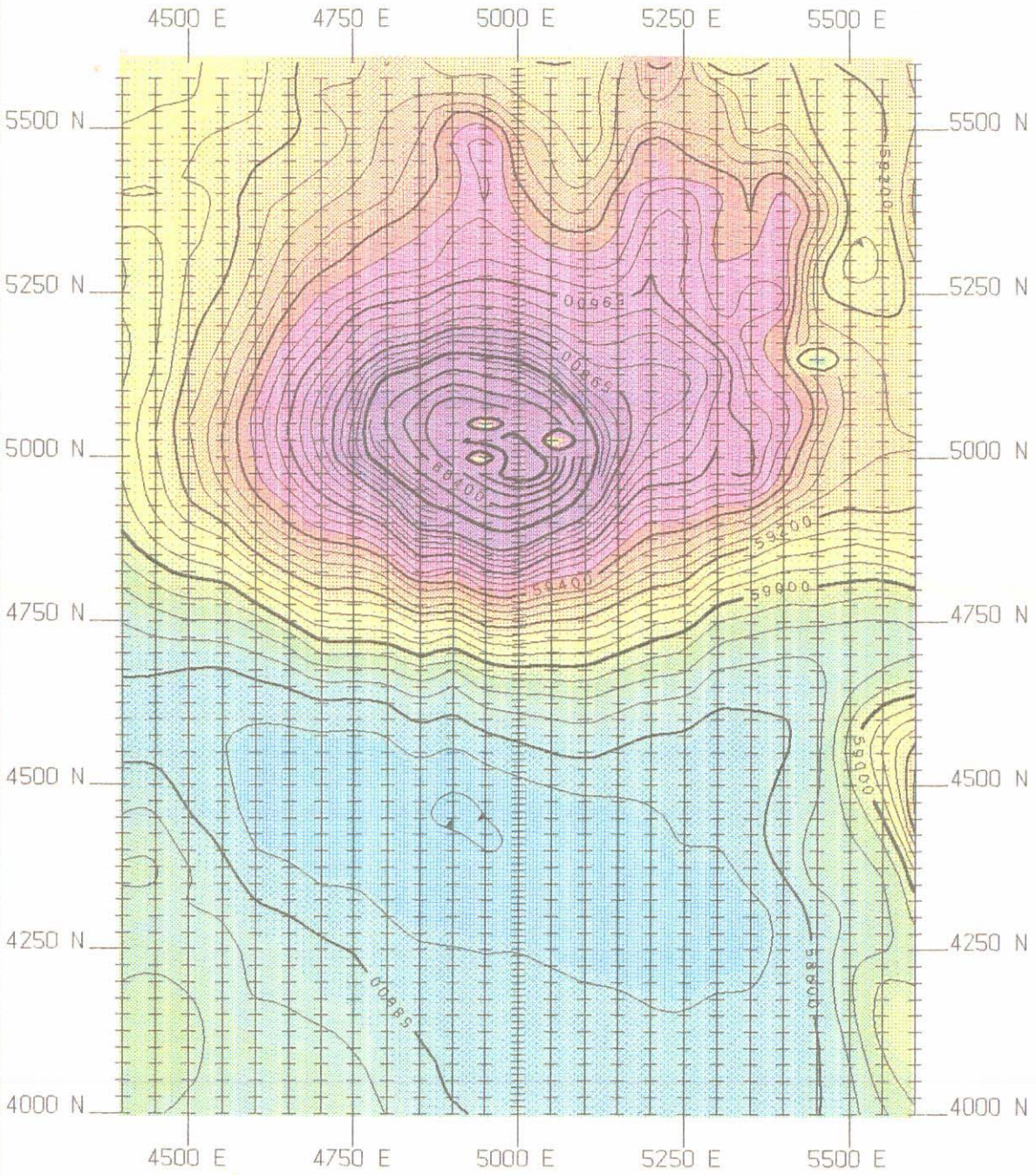
S C Finlay
Geologist
Whyalla

H R Robison
Chief Geologist-South

Table 2 Expenditure Report EL1527 : Mt Wedge
For the Period Ending 31 March 1992

		$
OPERATIONAL STAFF COSTS		10 759
TRANSPORT AND TRAVEL		306
CONTRACTORS : SAMPLE ANALYSIS		400
ADMINISTRATION :		
	REGIONAL OFFICE	1 388
	HEAD OFFICE	1 203
CAPITAL UTILISATION		573
TOTAL THIS PERIOD		$ 14 629
TOTAL PREVIOUSLY REPORTED		$ 300 899
TOTAL EXPENDITURE TO DATE		$ 315 528

226



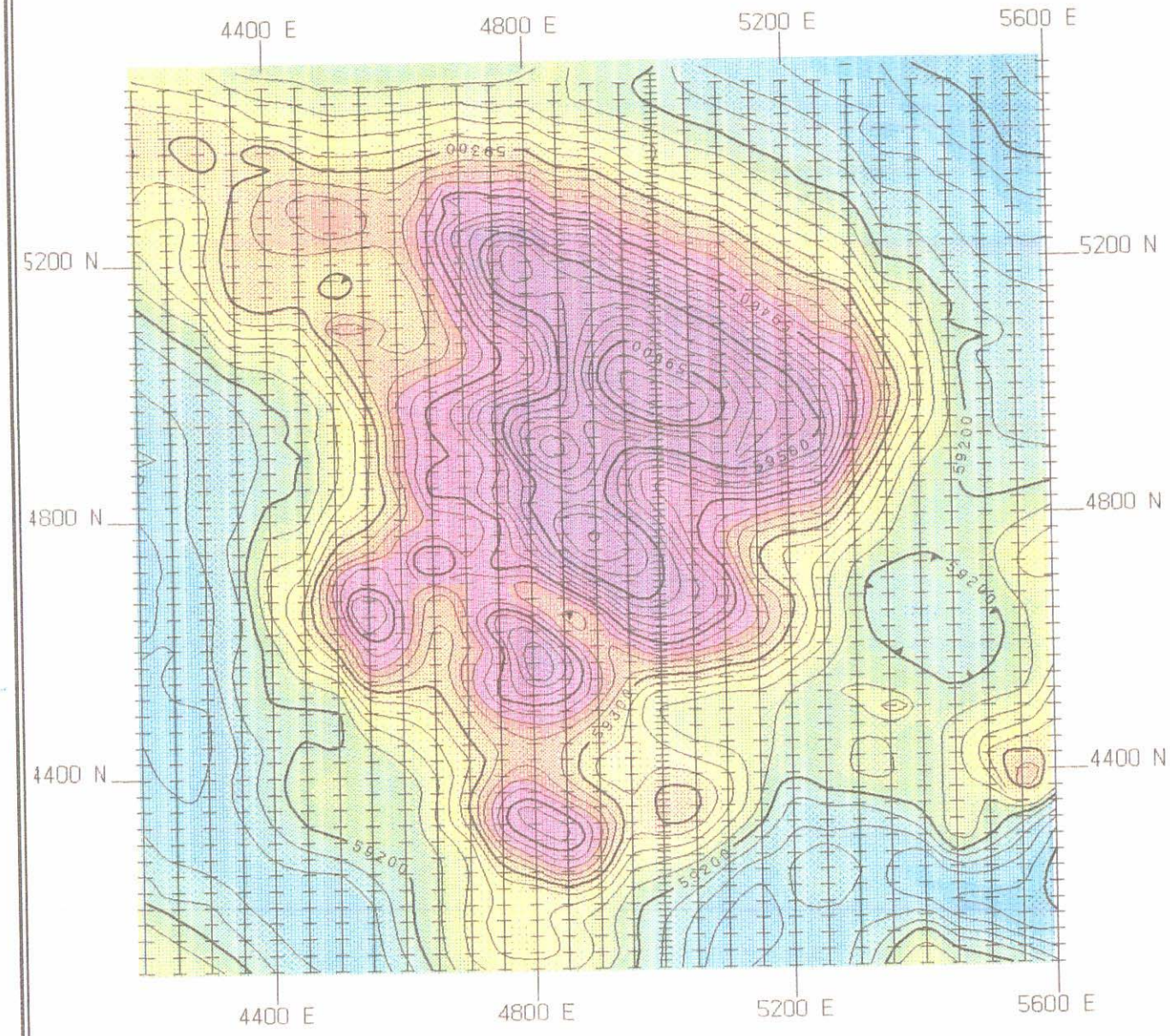
Scale 1:10000

100 0 100 200 300 400 500

(metres)

STOCKDALE PROSPECTING LTD
MOUNT WEDGE MW02 Ground Magnetic Intensity
Magnetic North cont = 50nT 26.02.92
Kimba S153 - 7 SEL:

000227



Scale 1:10000

100 0 100 200 300 400 500

(metres)

STOCKDALE PROSPECTING LTD

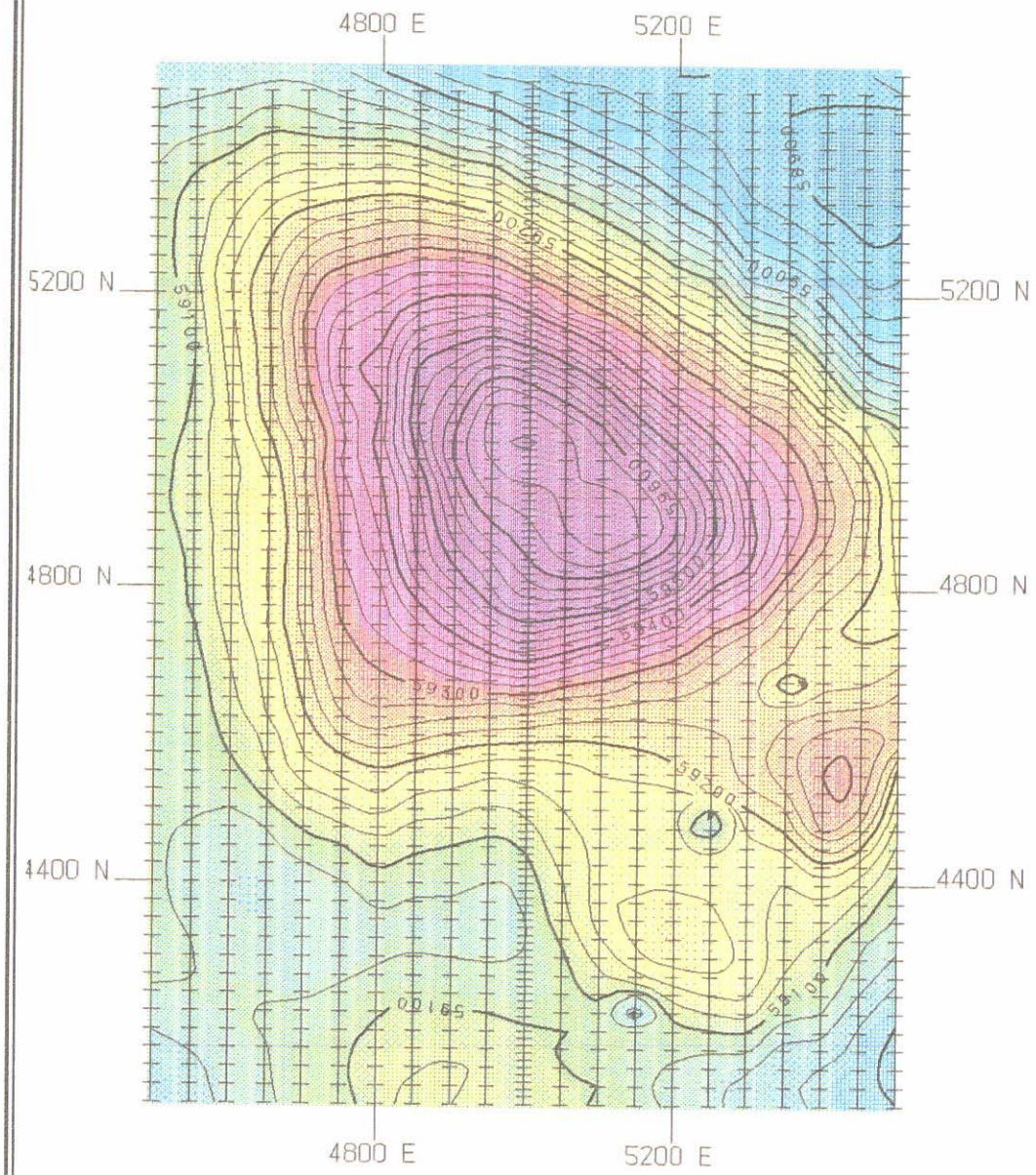
MOUNT WEDGE - MW08

Ground Magnetic Intensity

Magnetic North
cont = 20nT
04 - 05.03.92

KIMBA SI53 - 7 SEL:

000223



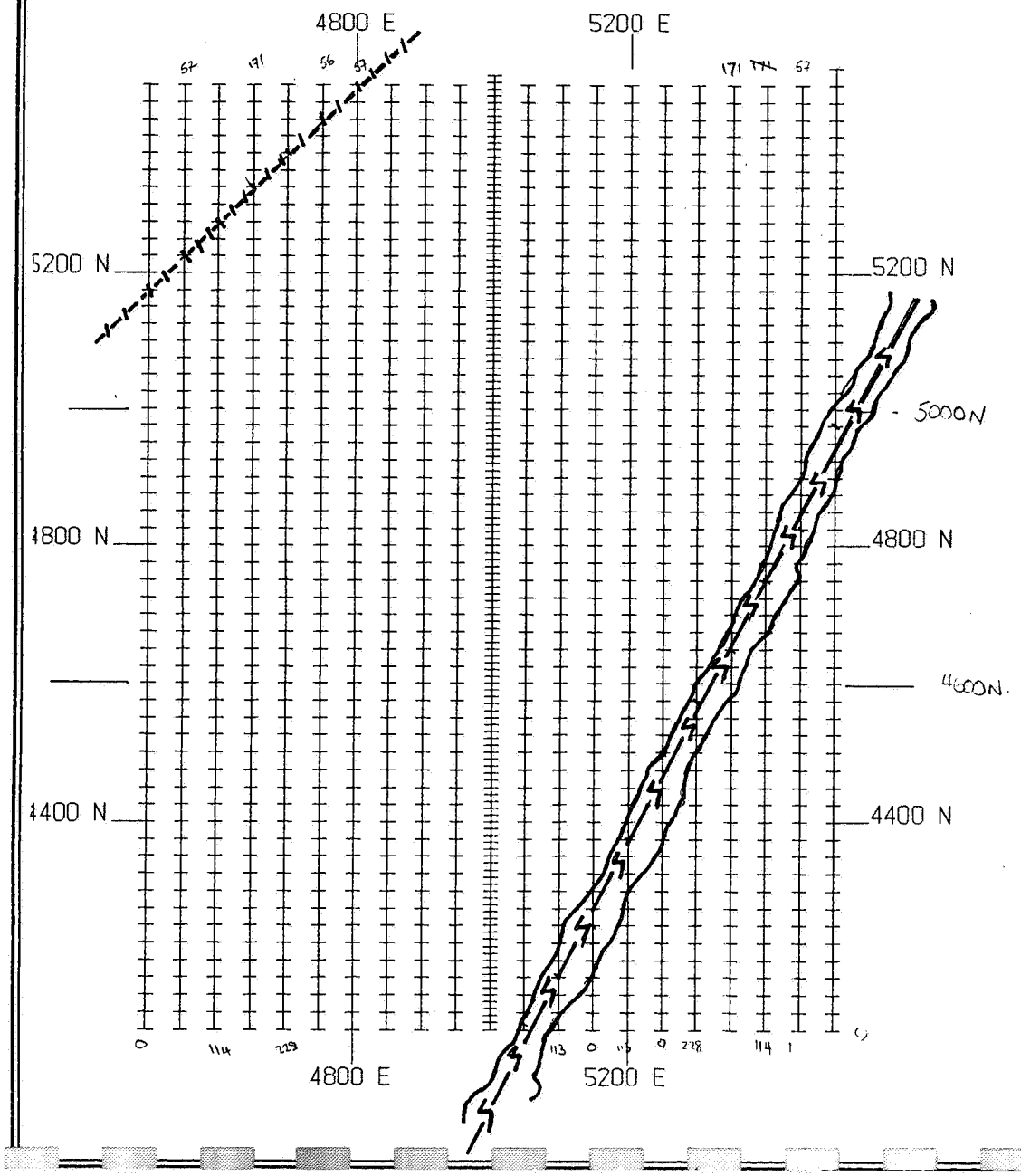
Scale 1:10000

100 0 100 200 300 400 500

(metres)

STOCKDALE PROSPECTING LTD
MOUNT WEDGE MW09 Ground Magnetic Intensity
Magnetic North cont = 25nT 09 - 10.03.92
KIMBA SI53 - 7 SFI :

000223



Scale 1:10000

100 0 100 200 300 400 500

(metres)

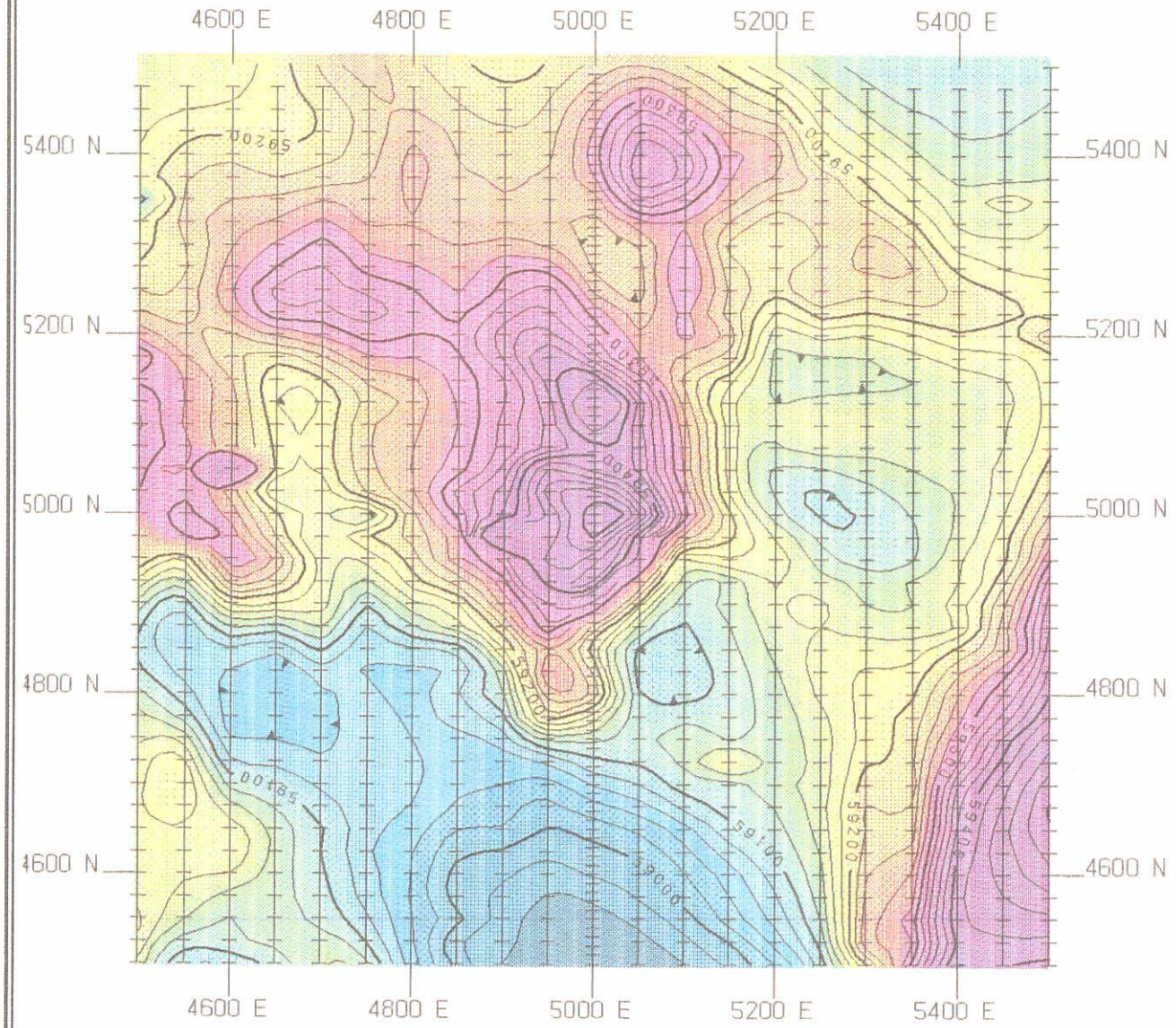
KEY :

- BOULDER LINE
- TRACK.
- FENCE

NB. GRID COVERED IN THICK SCRUB.

STOCKDALE PROSPECTING LTD
MOUNT WEDGE MW09 Ground Magnetic Intensity
Magnetic North Cultural Map 09 - 10.03.92
KIMBA SI53 - 7 SEL :

000230



Scale 1:7500

100 0 100 200 300 400 500

(metres)

STOCKDALE PROSPECTING LTD

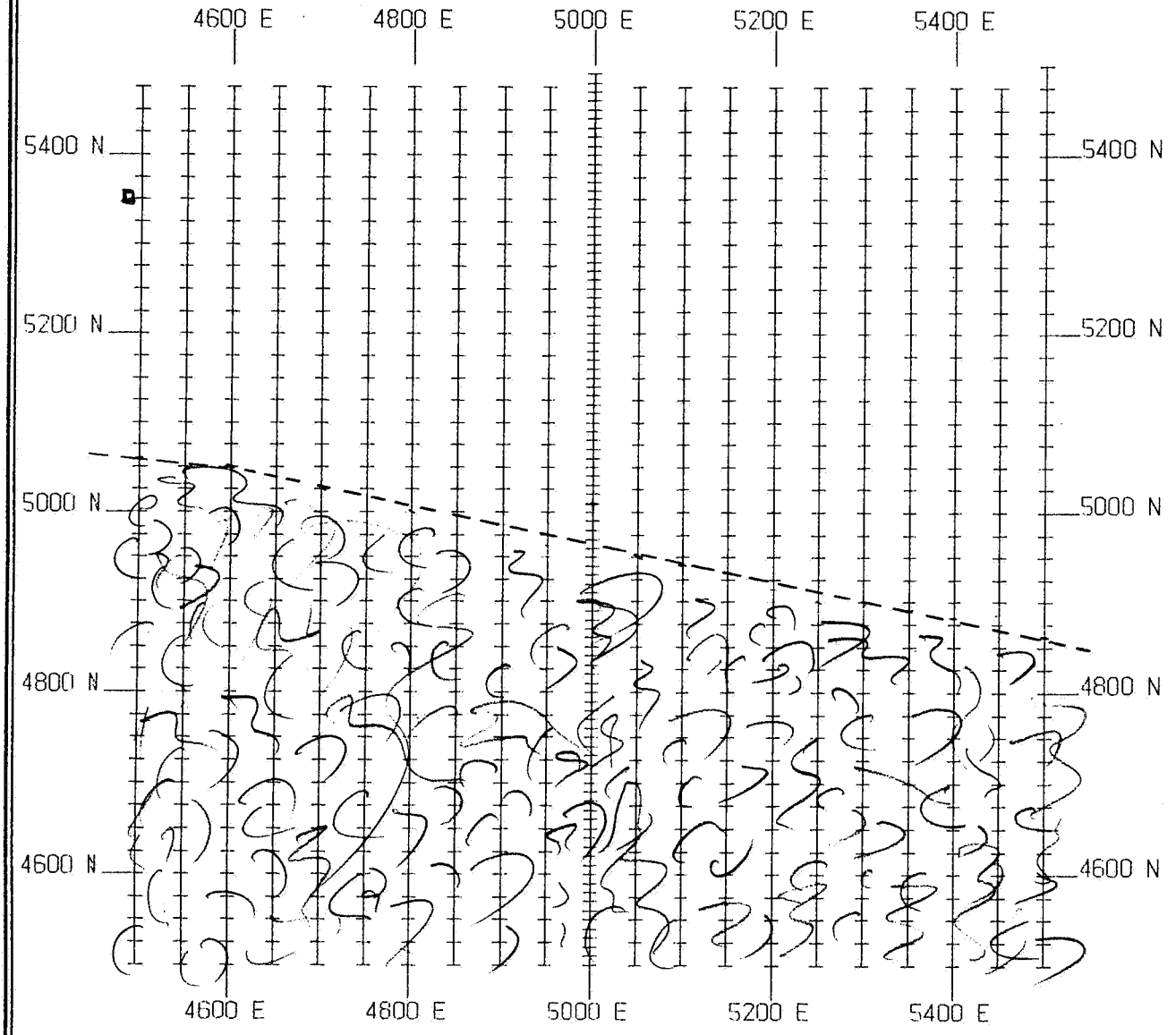
MOUNT WEDGE 21

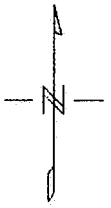
Ground Magnetic Intensity

Magnetic North
cont = 20nT
06.03.92

KIMBA SI53 - 7 SEL:

000231





Scale 1:7500

100 0 100 200 300 400 500

(metres)

- FENCE LINE

- TRACTOR

- SCRUB

STOCKDALE PROSPECTING LTD

MOUNT WEDGE 21

Ground Magnetic Intensity

Magnetic North
Cultural Map
06.03.92

KIMBA 5153 - 7 SEL:

33° 20'

000232

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

33°10'

SAMPHIRE FLAT

COCATA HILL

E.L. 1527

WARRAMBOO

N

COCATA CONSERVATION PARK

33°20'

MT. WEDGE

33°30'

BARWELL CONSERVATION PARK

LOCK

133°30'

138°

32°

CLEVE

1527

SOUTHERN OCEAN

35°

0 5 10 15 kms.

MAP 1

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA KIMBA 153-7 **LOCALITY MAP** **EXPLORATION LICENCE 1527** **MT WEDGE**	Compiled PDW Drawn ADS Date JANUARY '89 Scale 1:250,000 Revised SEL 3539

DAMPER 1:100 000 | KOPI 1:100 000

WUDINNA

SURVEY OUTLINE

EYRE

KYANCUTTA HWY.

WARRAMBOO

SWAMP

MAJOR BASEMENT FAULT

MW 01

MW 02

SLEAFORD COMPLEX OUTCROP

UNDERLYING ARCHEAN BASEMENT AP's SLEAFORD COMPLEX

PORDIA HILL (HILTABA GRANITE OUTCROP)

MW 06

MW 07

UNCONTITCHE HILL (HILTABA GRANITE OUTCROP)

MW 03

MW 08

MW 21

MW 04

PINTHYPUT HILL

UNDERLYING PROTEROZOIC BASEMENT. HILTABA SUITE Pyb

ELLISTON TROUGH

MW 05

MW 20

Qho MOORNABA SAND

Qpb BRIDGE WATER FORMATION

AEOLIAN CALCARENITE

MW 09

MW 12

MW 10

MW 11

Pcb Conglom.

MW 13

MW 16

MW 18

MW 14

MW 17

DYKE ?

MW 19

MW 15

MH 118

MT WEDGE

POLDA TROUGH

F FAULTS (MAJOR)

f FAULTS

INFERRED DYKES

ROADS

EDGE OF ELLISTON (BLUE RANGE BEDS)

SUB-OUTCROPPING/BLUE RANGE BEDS (CONGLOMERATE WITH HIGH K AND Th LEVELS)

P OUTCROPPING PROTOZOIC GRANITES

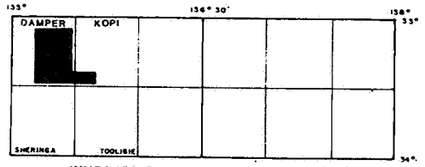
A OUTCROPPING ARCHEAN GRANITES

Qho / Qpb BOUNDARY BETWEEN EXPOSED BRIDGEWATER FORM. AND NTH. SAND CLAY COVER

MW 05 ANOMALY

NOTE : AMG's DERIVED FROM PHOTO ENLARGED IMAGE AND ARE SUBJECT TO E-W / N-S ERROR

LOCATION MAP



MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
KIMBA 153-7

MT WEDGE EL 1527
AIRBORNE GEOPHYSICAL INTERPRETATION

Compiled	FWA
Drawn	ADS
Date	3/90
Scale	1:250 000
Revised	
SEL 3804	

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE 1527

MT WEDGE

FINAL REPORT

000235

STOCKDALE
PROSPECTING
LIMITED
Incorporated in the State of Victoria
60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 241 7522
Telex Stodal AA39546
Fax (03) 240 0974

Project Name: MT WEDGE

Title: EXPLORATION LICENCE 1527 : MT WEDGE
FINAL REPORT

Edited: H R ROBISON

Author/s: H R ROBISON

Approved: H R ROBISON

Date: JULY 1992

Place: WHYALLA

1 : 250,000 Sheet Name/s & No/s.: KIMBA SI53-07

Text Pages No.: 5 Plan Nos.: 3 Table Nos.: 1 Appendices: 2 Plates: -

Keywords: AIRBORNE MAGNETICS, GROUND MAGNETICS, DRILLING, HEAVY MINERAL SAMPLING, INDICATOR MINERALS, GEOCHEMISTRY, PETROGRAPHY, REMOTE SENSING, LANDSAT TM

Abstract:

Heavy mineral sampling, an airborne geophysical survey, the ground follow up of magnetic anomalies and drilling failed to detect kimberlite. It was concluded that the area is unlikely to host kimberlitic inclusions of economic significance.

Copy to: SADME, IC

Ref: HRR1

Circulate to:

CONTENTS

MAPS

Tables

Appendices

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 1527 : MT WEDGE

FINAL REPORT

1 INTRODUCTION

Exploration Licence No 1527 is located in the north western Eyre Peninsula immediately south of the township of Wudinna, and occupies 1558 square kilometres on the Kimba mapsheet (Map 1). The licence was granted to Stockdale Prospecting on 12th October 1988, and diamond exploration during the tenure of the licence included heavy mineral sampling, an airborne geophysical survey, and the follow up of magnetic anomalies by ground geophysical surveys and drilling. It was concluded that the area was unlikely to host kimberlitic rocks of economic significance and the licence was surrendered on 27th May 1992.

2 GEOLOGY AND PHYSIOGRAPHY

The licence area lies within the Gawler Block, a stable craton with crystalline basement rocks ranging in age from 2700 million years to 900 million years. Younger cover rocks include the Late Proterozoic sediments of the Blue Range Beds, seen at Mt Wedge, and Permian, Jurassic and Tertiary sediments deposited in the Polda Trough, a narrow east-west graben the northern flank of which is more or less coincident with the southern boundary of the Exploration Licence. Thin veneers of Quaternary sediments, notably sands and calcretes of the Bridgewater Formation mask the underlying rocks, which outcrop only in a few isolated hills. The geology and physiography of the licence area are described in more detail in the 1st Quarterly report.

3 HEAVY MINERAL SAMPLING (Map 2)

3.1 Reconnaissance Sampling

Semi-continuous loam sampling was carried out along roads and tracks across the licence area. Fifty two samples were collected and produced a scatter of kimberlitic indicator minerals which are not considered to be of significance. Details of the programme are given in the 8th and 9th Quarterly reports.

3.2 Grid Loam Sampling

Fourteen loam samples were collected on a 1km grid in the extreme south-eastern portion of the licence area as part of follow up to a heavy mineral anomaly in the adjacent exploration licence (EL1516). One sample contained a single kimberlitic garnet. Details are given in the 3rd and 5th Quarterly reports.

3.3 Sampling of Magnetic Anomalies

Loam samples were collected from at or near the centre of most magnetic anomalies during ground follow up, as detailed in the 7th, 8th and 14th Quarterly reports.

In addition samples comprising 2 bags of -1 + 0.3mm material were collected from anomaly MW11 (X7500) and MW17 (X6540). Six bags of -2 + 0.3mm and 4 bags of +2mm drill spoil were also collected as sample X6539 from drillhole CRA 81/LRM51 which is located at local co-ordinates 5700E/4875N on the MW11 grid.

None of these samples produced results of significance.

3.4 Miscellaneous

A few samples collected to investigate prospects introduced by local pastoralists all gave negative results, as described in the 11th Quarterly report.

4 AIRBORNE GEOPHYSICAL SURVEY

The licence area was included in the joint SADME/BMR survey of the Eyre Peninsula flown by Geoterrex toward the end of 1988. Stockdale's collaboration in this survey included infill flying over the Mt Wedge licence to give a flight line spacing of 500m. The survey specifications were :

Mean Terrain Clearance	100m
Flight Line Spacing	500m
Flight Line Orientation	E-W
Tie Line Spacing (Orientation)	12km (N-S)
Airspeed	70m/second (175 knots)
Magnetometer Cycle Rate	0.2 seconds
Data Collected	Total Field Magnetics 4 Channel Radiometrics
Navigation	Syledis Radio Navigation System

4.1 Data Interpretation

Located and levelled digital data supplied by the contractor was gridded, processed and imaged by Stockdale's Research and Technical Services Division in Melbourne. A preliminary contour plot (plan SEL G1569, 7th Quarterly report) showed the magnetic data to be very active over the licence area, due to the extensive Archaean(?) and Proterozoic granites. This hindered target selection as any lower amplitude anomalies were probably masked by the active magnetic background. Considerable dependency was therefore placed on the interpretation of filtered images, from which twenty anomalies, designated MW01 to MW20, of possibly kimberlitic style were selected (7th Quarterly report). Subsequent re-examination of the aeromagnetic data led to the selection of 3 additional anomalies, MW21, MH118 and MH116. All but the latter, which is located in the Barwell Conservation Park about 6km SE of MW17 and is therefore inaccessible, are shown on Map 3.

4.2 Ground Follow up of Magnetic Anomalies

Ground follow up was conducted by pegging a grid of appropriate size over each anomaly using tape or chain and compass. Grid lines were oriented N-S (magnetic) and spaced 50m apart. Magnetic readings were collected at 25m intervals along each line using a Geometrics G856 proton precession memory magnetometer. A second such instrument was used to monitor diurnal drift. The data collected was drift corrected and contoured in the field using a laptop PC. The resulting plots were forwarded to Melbourne for interpretation.

Contour plots for the airborne and ground magnetic data have been presented for anomalies MW01, 04, 05, 10, 12, 16, 18, 19, 20 (7th Quarterly report), 03, 13 and 15 (8th Quarterly report). Contour plots for the ground magnetic data for anomalies MW02, 08, 09 and 21 were submitted with the 14th Quarterly report.

Anomaly MW07 is coincident with the Hiltaba Granite outcrop at Uncontitchie Hill, and was not investigated further. Anomalies MW06 and 14 were not thought to warrant ground follow up. Anomaly MH 118 could not be located on the ground, and subsequent re-examination of the data showed it to be an artefact of processing. As previously noted MH116 is within a conservation park and therefore could not be followed up.

Contour plots of the airborne and ground magnetic data not previously supplied are to be found in Appendices 1 and 2 to this report.

4.3 Drilling

A number of the anomalies were recommended for drilling following the appraisal of ground magnetic data in Melbourne. Two phases of drilling took place.

Anomalies MW18 and 19 were drilled in June 1990 when 2 holes totalling 106m were completed. Two kimberlitic spinels and one ilmenite were recovered from drill cuttings. Details of the drilling, downhole sampling and drill logs were provided in the 8th Quarterly report; results for the geochemical analysis of basement samples are in Appendix 1, 10th Quarterly report.

In February 1991 fifteen holes with an aggregate depth of 838m were drilled to investigate anomalies MW01, 03, 04, 05, 10, 13, 16 and 20. A variety of crystalline basement rocks were intersected. The drilling programme was reported in the 10th Quarterly report, to which the drill logs were attached as Appendix 2. Petrographic descriptions of hornblende-quartz gabbro from MW04 and schists from MW16 are in Appendix 2 of the 11th Quarterly report. A few kimberlitic indicator minerals were recovered from the drill cuttings as detailed in Table 1 of the 12th Quarterly report, whilst analytical results from downhole geochemical samples were appended to both the 12th and 13th Quarterly reports.

None of the basement rocks intersected during either drilling programme were kimberlite or of kimberlitic affinities, and it is believed that the few indicator minerals recovered from drill samples are derived from a secondary host in the Quaternary and Tertiary calcarenites and sands.

5 REMOTE SENSING

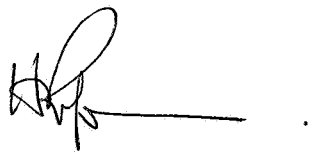
The area of EL1527 was included as part of more comprehensive study of Landsat TM imagery over the Eyre Peninsula. In essence this did not contribute significantly to exploration in the area, primarily because the veneer of Bridgewater Formation calcarenites and younger sand spreads masks structural and other features of the basement. Brief reference to the TM study was made in the 4th (see Map 2, plan SEL3769b), 12th, 13th and 14th Quarterly reports.

6 CONCLUSIONS

Reconnaissance heavy mineral sampling did not detect any concentration of kimberlitic indicator minerals sufficient to suggest a proximal primary source. The active nature of the magnetic background makes the interpretation and selection of anomalies which may be due to kimberlite difficult. Nevertheless none of the anomalies selected for drilling resulted from kimberlite. It was thought unlikely that economically significant diamond bearing rocks occurred within the licence area and exploration was therefore terminated.

7 EXPENDITURE

The work completed within the tenement from grant to surrender has incurred expenditure totalling $356 202, as summarised in Table 1.



H R Robison
Senior Divisional Geologist

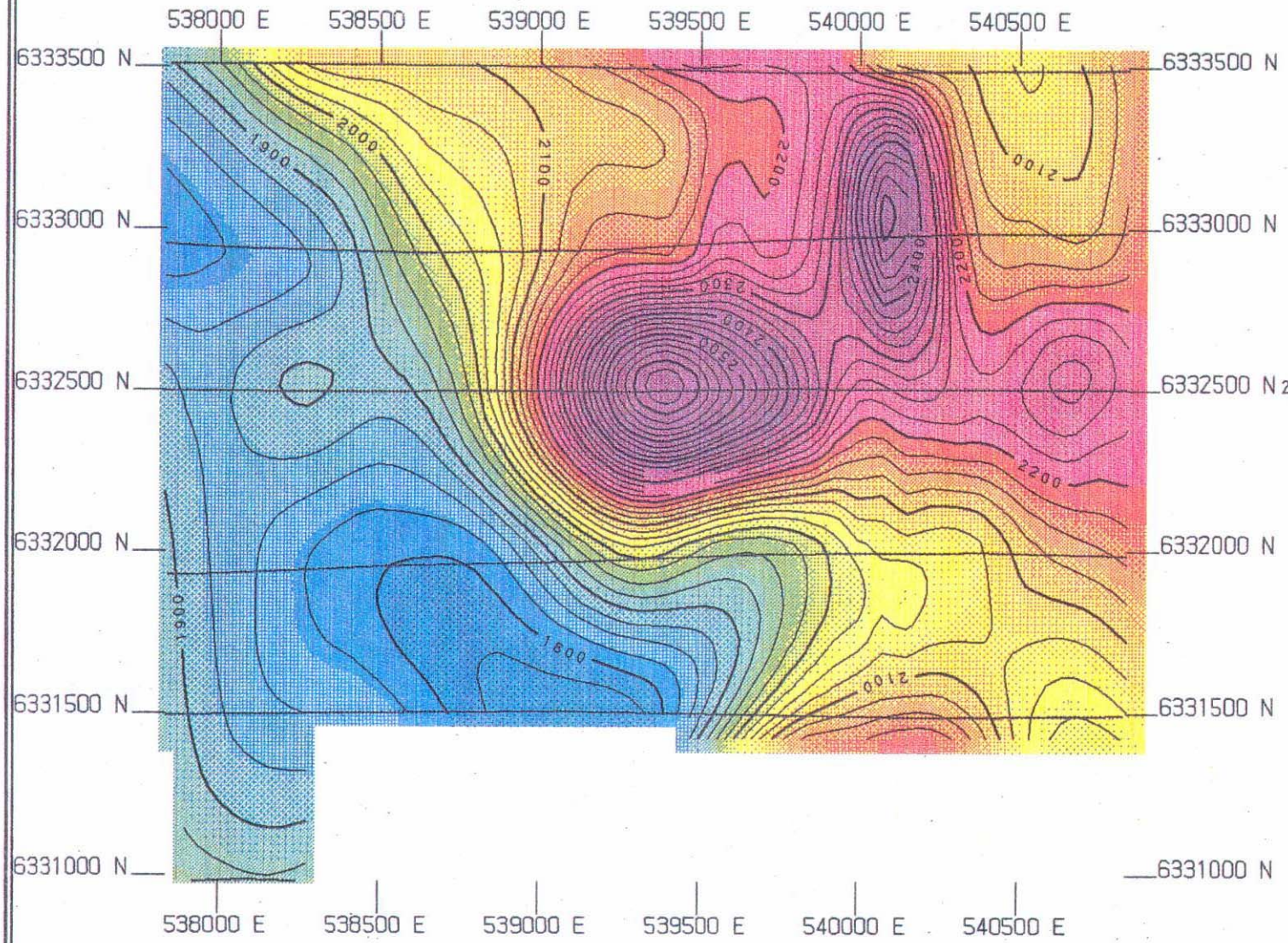
Table 1 : Expenditure Summary, EL1527
Period 12 October 1988 to 30 June 1992

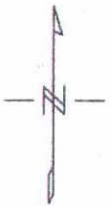
		$
OPERATIONAL STAFF COSTS		123 208
GENERAL OPERATIONAL EXPENSES		10 208
TRANSPORT AND TRAVEL		11 451
CENTRAL TREATMENT PLANT		37 230
LABORATORY	: TREATMENT	5 300
	: EXAMINATION	9 298
CONTRACTORS	: GEOPHYSICS	18 909
	: DRILLING	19 291
	: SAMPLE ANALYSIS	3 440
	: EARTHMOVING	825
TECHNICAL SERVICES	: GEOPHYSICS	25 246
	: REMOTE SENSING	2 396
	: DRAFTING	3 843
	: MINERALOGY	750
	: COMPUTING	361
	: OTHER	560
ADMIN/LOGISTIC SUPPORT	: REGIONAL OFFICE	40 189
	: HEAD OFFICE	32 872
CAPITAL UTILISATION		10 285
TOTAL EXPENDITURE		$ 356 202

APPENDIX 1

Magnetic Contours, Airborne Data

MW02,06,07,08,09,11,14,17





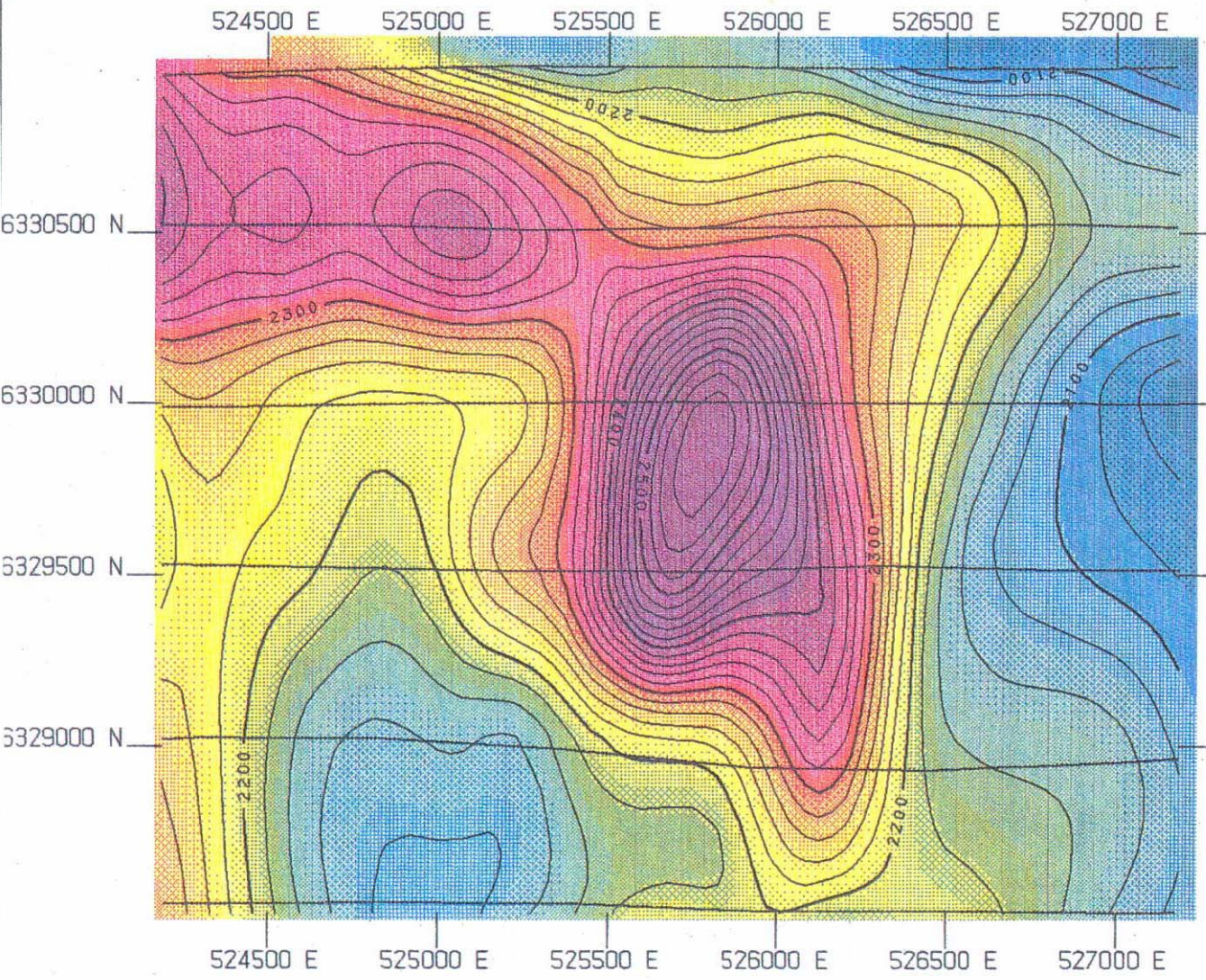
Scale 1:20000

250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW02 Magnetic Intensity
Contour Interval = 25nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1164

000241



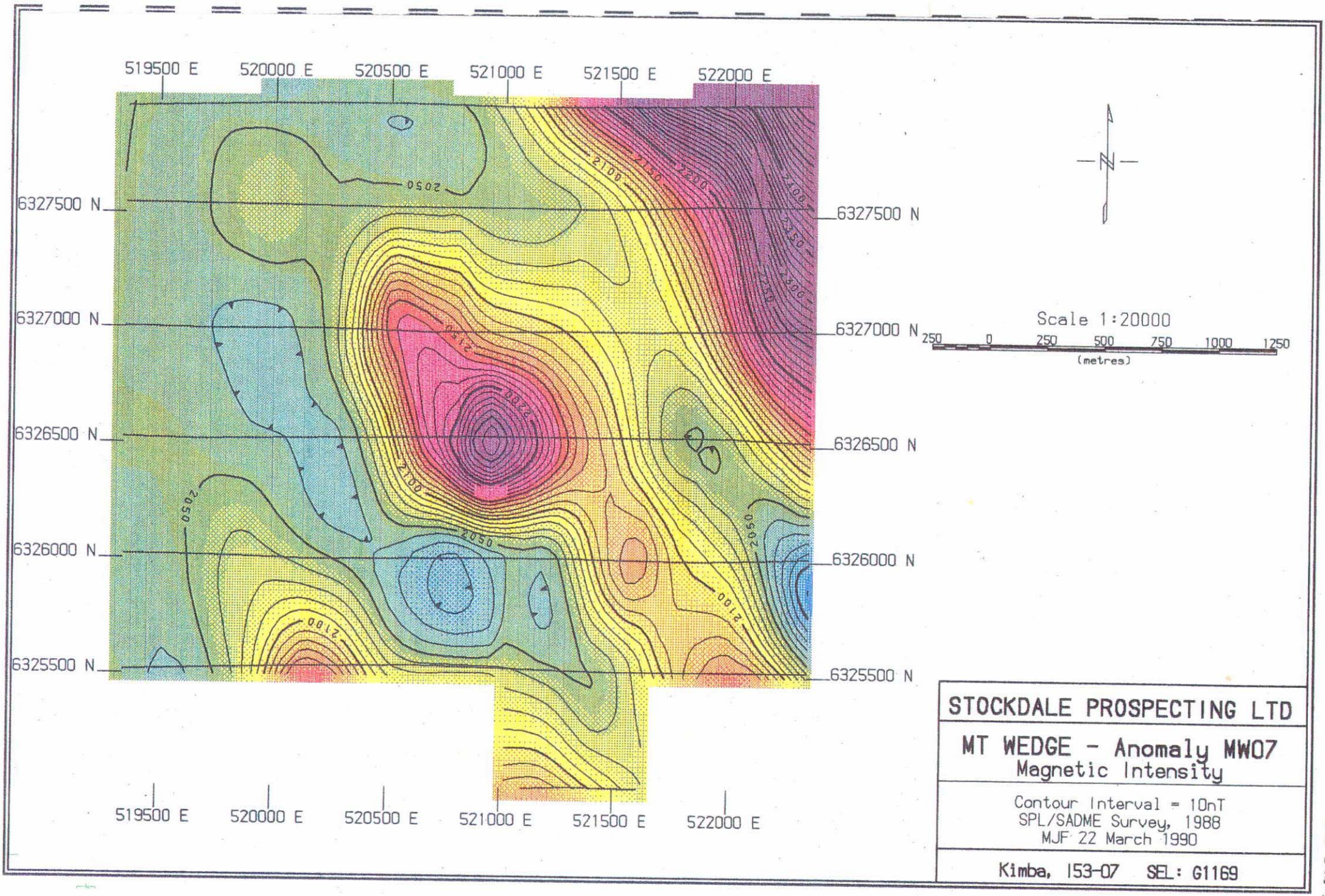
Scale 1:20000

250 0 250 500 750 1000 1250

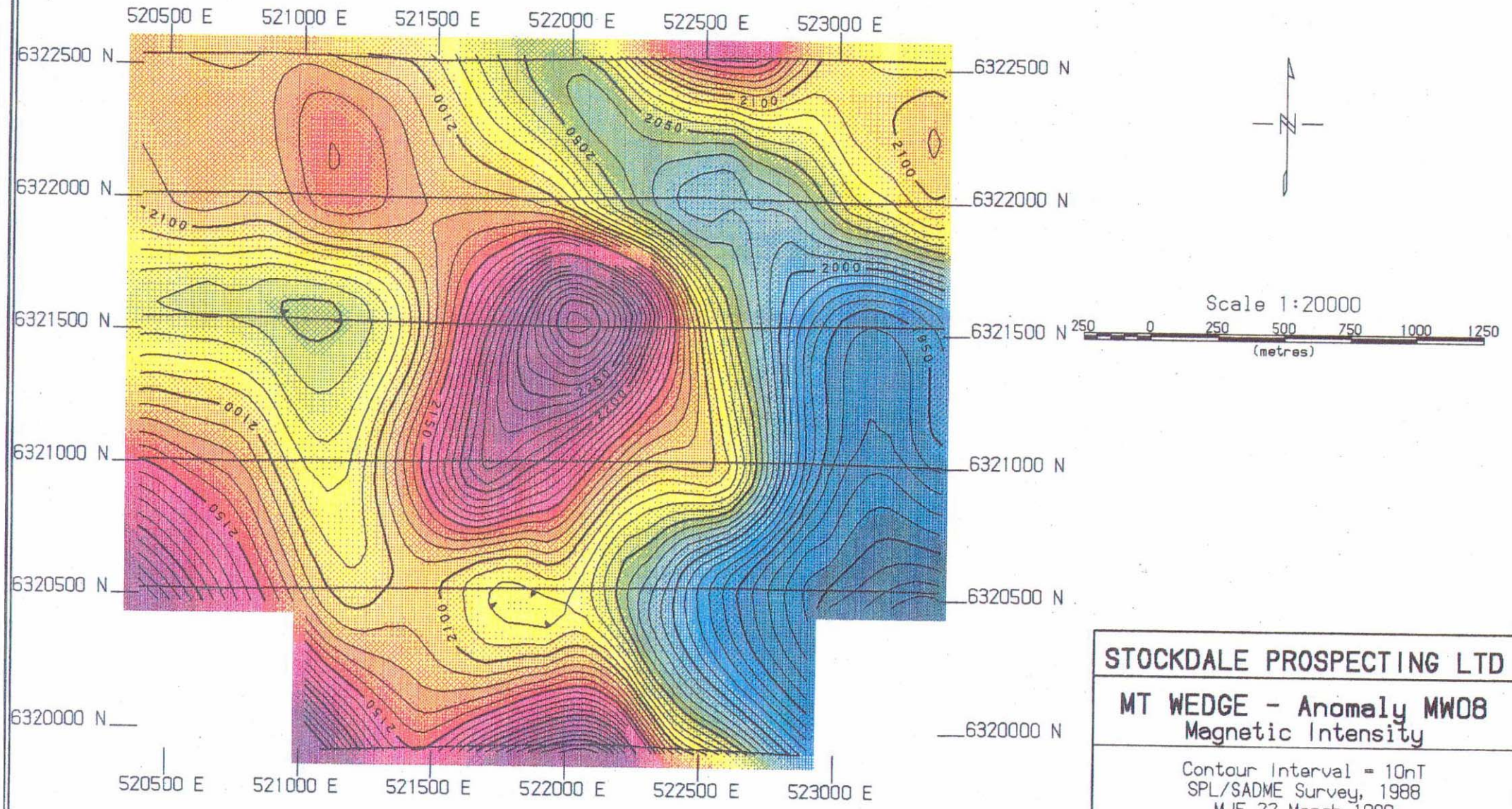
(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW06 Magnetic Intensity
Contour Interval = 20nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1168

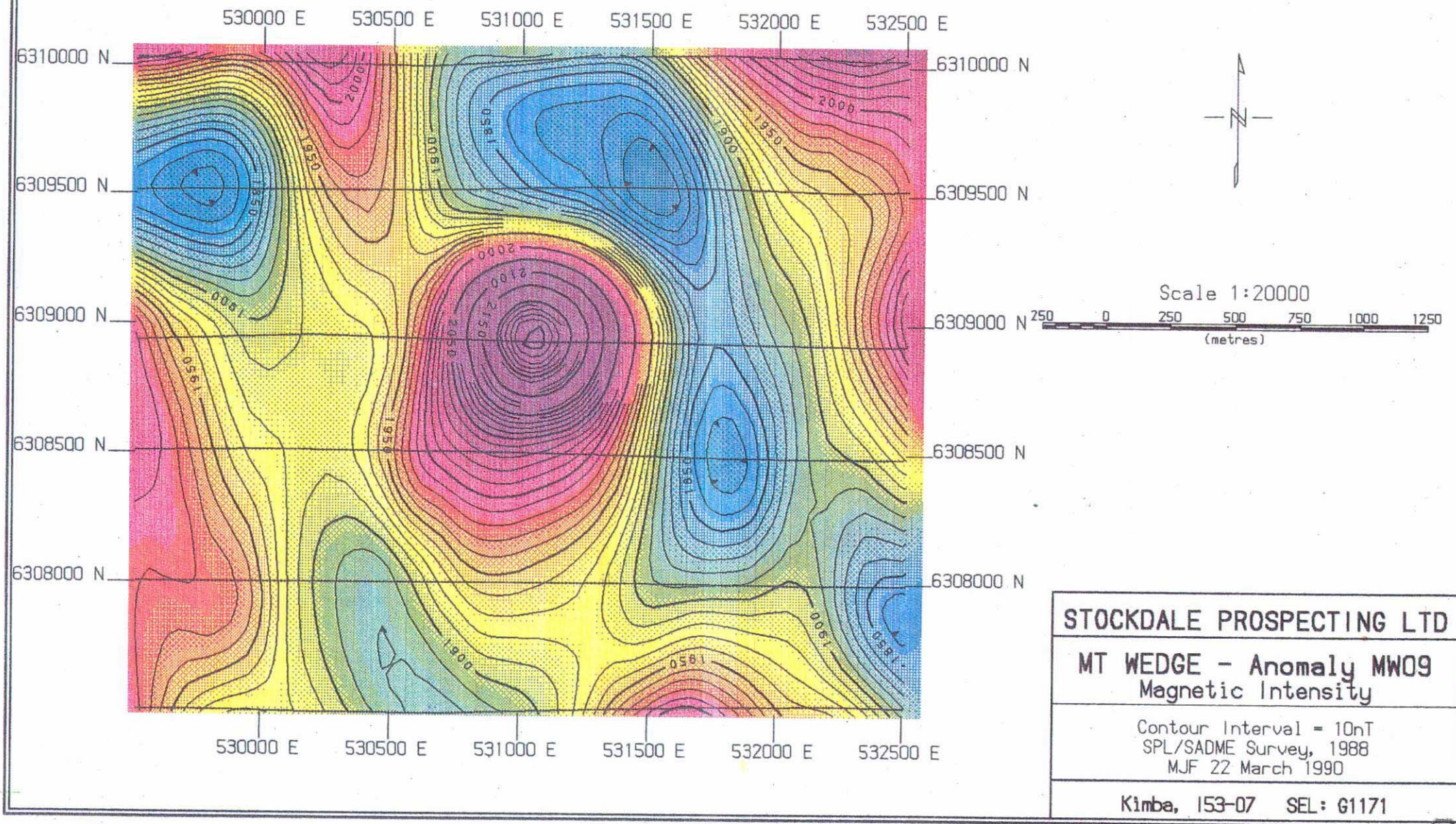
000245



STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW07 Magnetic Intensity
Contour Interval = 10nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1169



STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW08 Magnetic Intensity
Contour Interval = 10nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1170

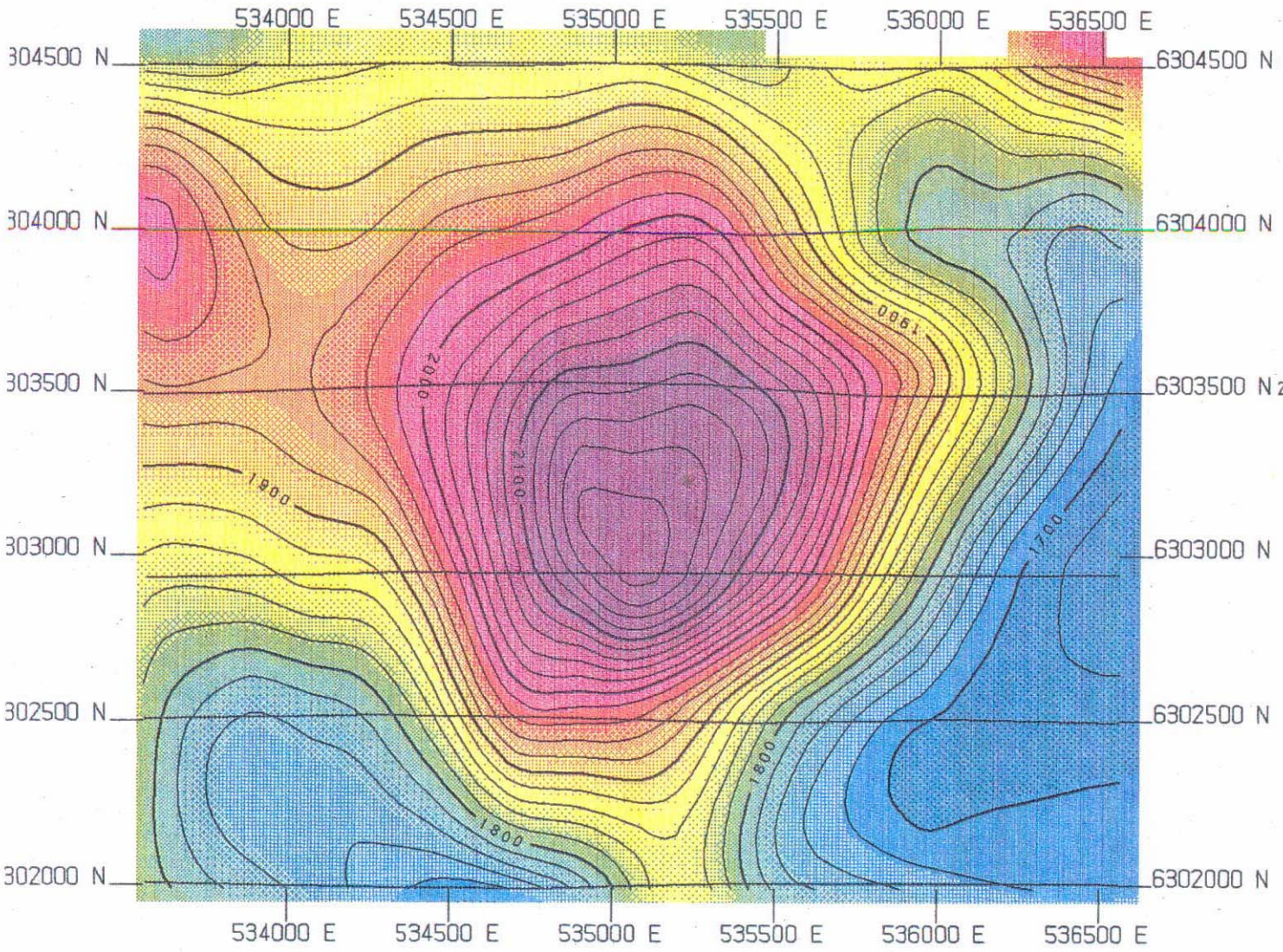


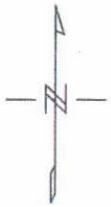
STOCKDALE PROSPECTING LTD

MT WEDGE - Anomaly MW09
Magnetic Intensity

Contour Interval = 10nT
SPL/SADME Survey, 1988
MJF 22 March 1990

Kimba, 153-07 SEL: G1171





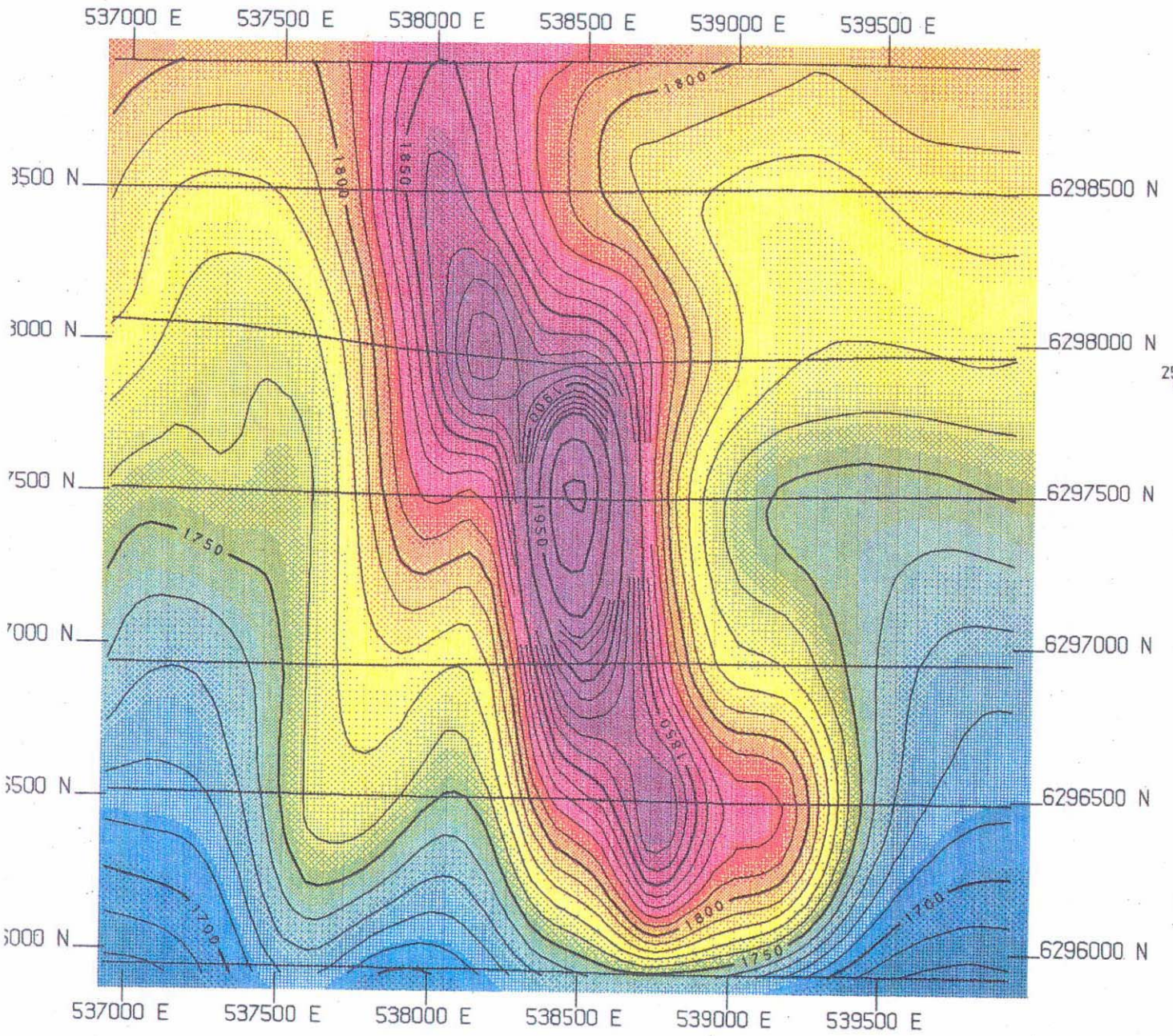
Scale 1:20000

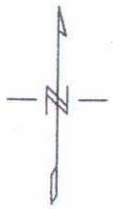
250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW11 Magnetic Intensity
Contour Interval = 20nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1173

000243





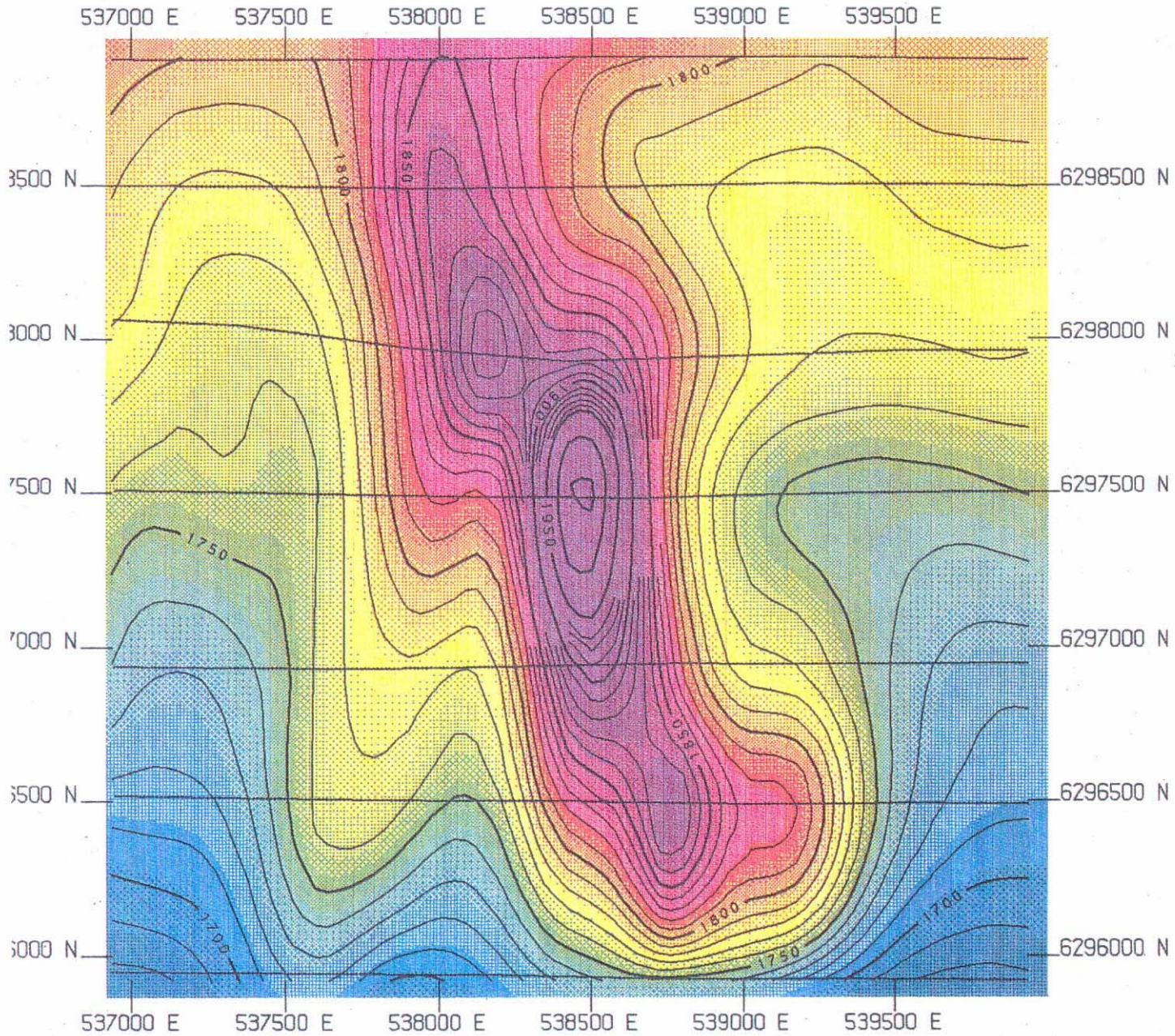
Scale 1:20000

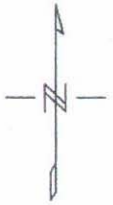
250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW14 Magnetic Intensity
Contour Interval = 10nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1176

000250





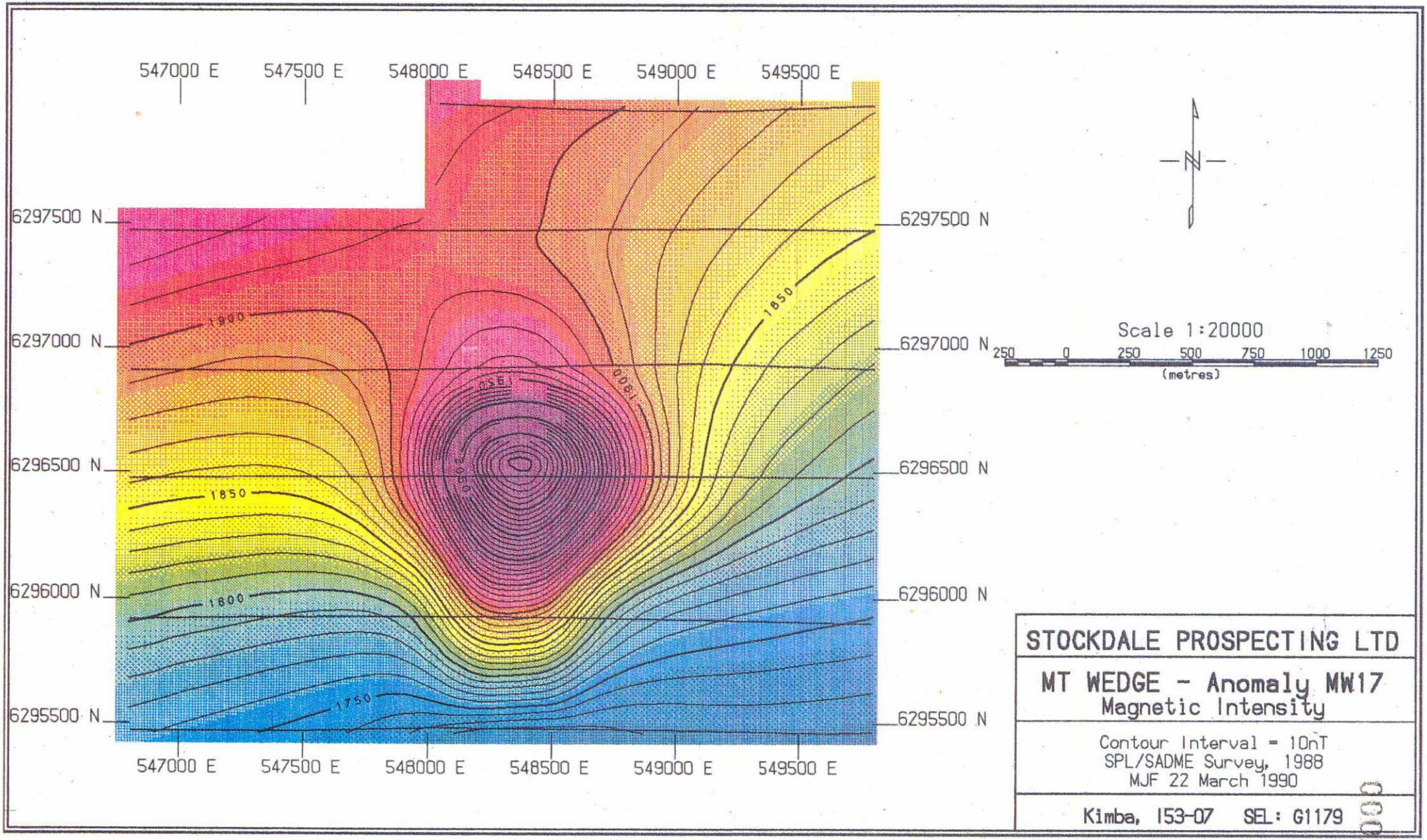
Scale 1:20000

250 0 250 500 750 1000 1250

(metres)

STOCKDALE PROSPECTING LTD
MT WEDGE - Anomaly MW14 Magnetic Intensity
Contour Interval = 10nT SPL/SADME Survey, 1988 MJF 22 March 1990
Kimba, 153-07 SEL: G1176

000251

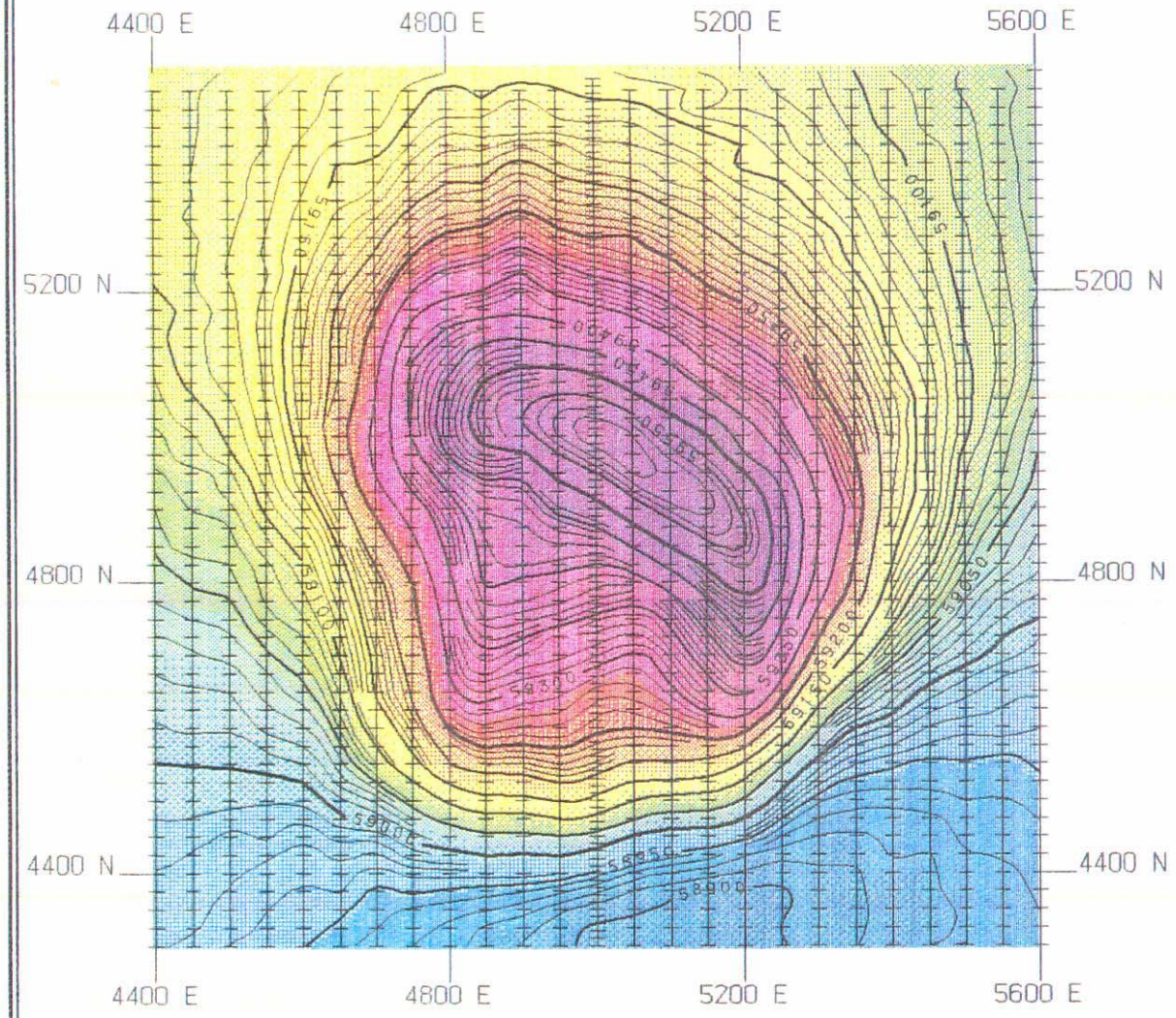


STOCKDALE PROSPECTING LTD

MT WEDGE - Anomaly MW17
Magnetic Intensity

Contour Interval = 10nT
SPL/SADME Survey, 1988
MJF 22 March 1990

Kimba, 153-07 SEL: G1179



Scale 1:10000

100 0 100 200 300 400 500

(metres)

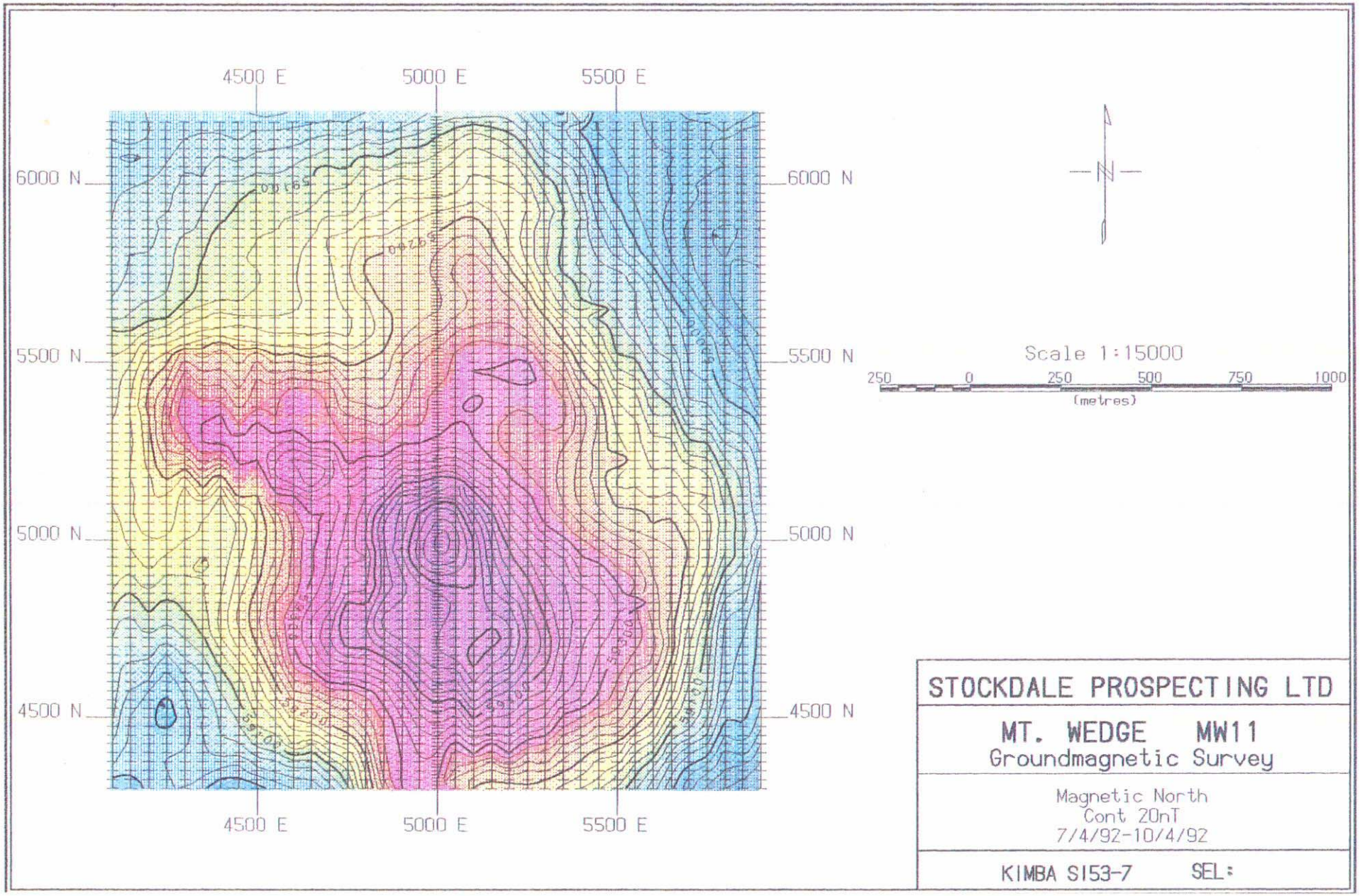
STOCKDALE PROSPECTING LTD

MT WEDGE MW17

Groundmagnetic Survey

Magnetic North
Cont 10nT
28/4/92-29/4/92

KIMBA SI53-7 SEL:



STOCKDALE PROSPECTING LTD

MT. WEDGE MW11
Groundmagnetic Survey

Magnetic North
Cont 20nT
7/4/92-10/4/92

KIMBA SI53-7 SEL:

APPENDIX 2

Magnetic Contours, Ground Data

MW11,17

000256

135°20'

135°30'

EYRE HWY

WUDINNA

KYANCUTTA

EYRE HWY

33°10'

SAMPHIRE FLAT

COCATA HILL

E.L. 1527

COCATA CONSERVATION PARK

WARRAMBOO

N

33°20'

MT. WEDGE

33°30'

BARWELL CONSERVATION PARK

LOCK

135°20'

135°40'

133°30'

138°

32°

35°

CLEVE

1527

SOUTHERN OCEAN

0 5 10 15 kms.

MAP 1

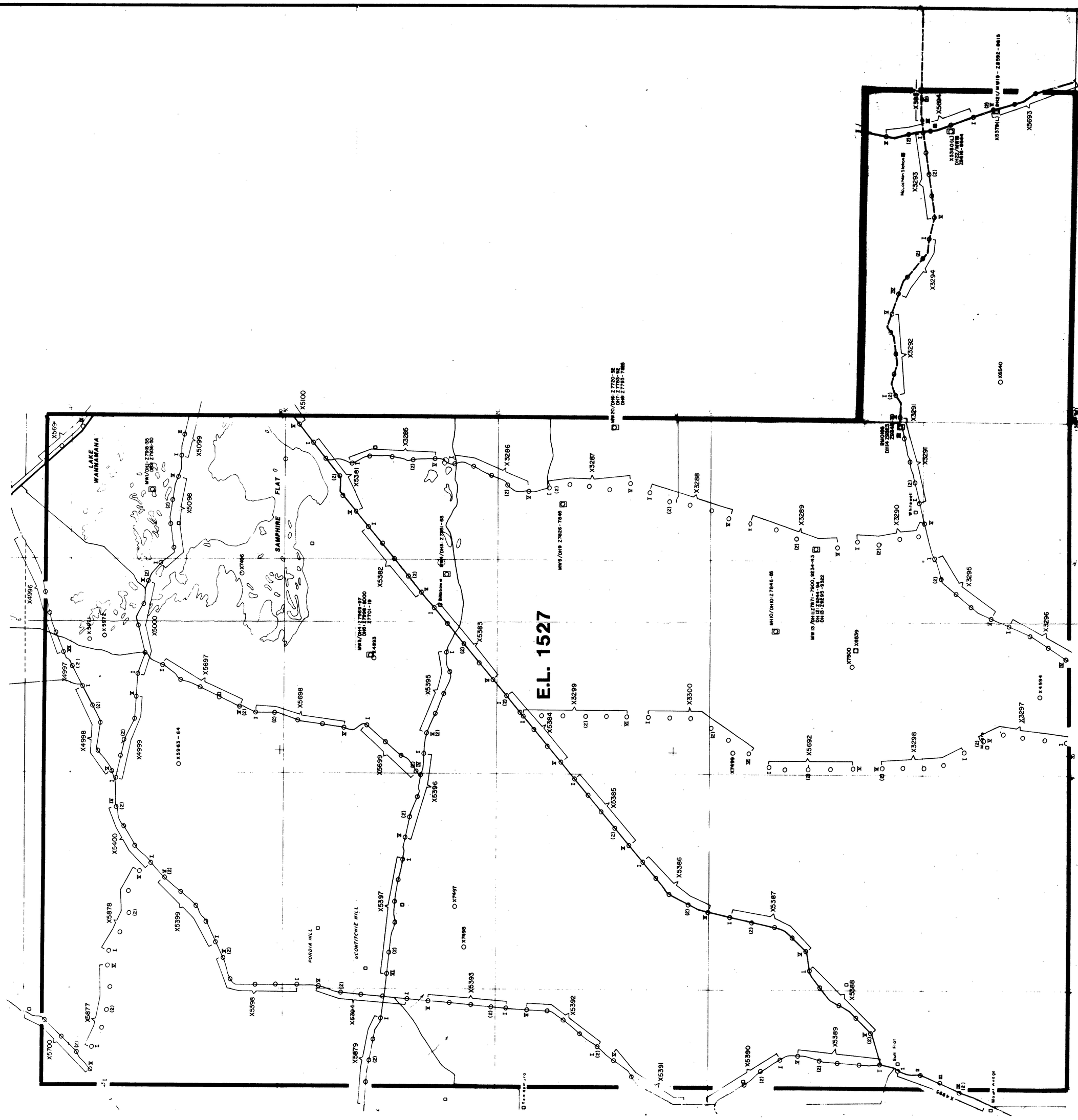
STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

KIMBA 153-7

LOCALITY MAP
EXPLORATION LICENCE 1527
MT WEDGE

Compiled	PDW
Drawn	ADS
Date	JANUARY '89
Scale	1:250,000
Revised	
SEL	3539



8087-85

8087-85

MAP 2

STOCKDALE PROSPECTING LIMITED A.C.N. 004 912 172	
SOUTH AUSTRALIA ISSOT - KIMBA EL 1527 CURRENT SAMPLING	Compiled Drawn Date 7/92 Scale 1:100,000 Revised SEL.

8087-4

DAMPER 1:100 000 | KOPI 1:100 000

510000mE

6340000mN

SURVEY OUTLINE

WUDINNA

SWAMP

MAJOR BASEMENT FAULT

MW 01

MW 02

MW 03

MW 04

MW 05

MW 06

MW 07

MW 08

MW 09

MW 10

MW 11

MW 12

MW 13

MW 14

MW 15

MW 16

MW 17

MW 18

MW 19

MW 20

MW 21

MH 118

PORDIA HILL
(HILTABA GRANITE OUTCROP)

UNCONTITCHE HILL
(HILTABA GRANITE OUTCROP)

PINTHYPUT HILL

SLEAFORD COMPLEX OUTCROP

UNDERLYING ARCHEAN BASEMENT
AP's SLEAFORD COMPLEX

UNDERLYING PROTEROZOIC BASEMENT. HILTABA SUITE P y b

KYANCUTTA

HWY.

EYRE

WARRAMBOO

MT DAMPER

MT WEDGE

ELLISTON TROUGH

POLDA TROUGH

Qho MOORNABA SAND

Qpb BRIDGE WATER FORMATION

F AEOLIAN CALCARENITE

Pcb Conglom.

DYKE ?

N

F FAULTS (MAJOR)

f FAULTS

INFERRED DYKES

ROADS

EDGE OF ELLISTON (BLUE RANGE BEDS)

SUB-OUTCROPPING/BLUE RANGE BEDS
(CONGLOMERATE WITH HIGH K AND Th LEVELS)

P OUTCROPPING PROTOZOIC GRANITES

A OUTCROPPING ARCHEAN GRANITES

Qho / Qpb BOUNDARY BETWEEN EXPOSED BRIDGEWATER FORM. AND NTH. SAND CLAY COVER

MW 03 ANOMALY

NOTE : AMG's DERIVED FROM PHOTO ENLARGED IMAGE AND ARE SUBJECT TO 50m. E-W / 100m. N-S ERROR

LOCATION MAP

DAMPER | KOPI | SHERINGA | TOOLIGIE

KIMBA 153-7 | WHYALLA 153-8

2 0 2 4 6 8 10 kms

8087-4

MAP 3

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
KIMBA 153-7

MT WEDGE EL 1527

AIRBORNE GEOPHYSICAL INTERPRETATION

Compiled	FWA
Drawn	ADS
Date	3/90
Scale	1:100 000
Revised	
	SEL 3804

000257

STOCKDALE
PROSPECTING
LIMITED
A.C.N. 004 912 172

P.O. Box 126
60 Wilson Street
South Yarra Victoria 3141
Australia
Telephone (03) 827 7522
Telex Stodal AA39546
Fax (03) 826 0974

15 October 1992

The Director-General
Department of Mines and Energy
PO Box 151
EASTWOOD SA 5063

Attention: Mr. G. Kwitko

Dear Sir,

Exploration Licences 1518, 1527, 1672, 1694

Further to your letter of 1 October, 1992, I enclose supplementary information as follows:

EL1518

1. Petrographic Report KR 89/772 for kimberlite Mt. Hope-01 (Anomaly MH01)
2. Petrographic Report KR 90/114 for kimberlite Mt. Hope-02 (Anomaly MH14)
3. A report detailing the Ion-microprobe U-Pb dating of perovskite from Kimberlite Mt. Hope-01.
4. Drill hole logs for drillholes DH 53-55, Anomaly MH109.
5. AMG co-ordinates for drillholes DH20-55, Anomalies MH11 to MH109, Feb. '91 drilling programme.
6. Results for loam sample X7493.

E1527

1. AMG co-ordinates for DH21 (Anomaly MW19) and DH22 (Anomaly MW18).
2. Results for loam samples X7496-7500.

EL1672

1. Results for loam samples X7701-20, X7844-48 and X8184-200.

EL1694

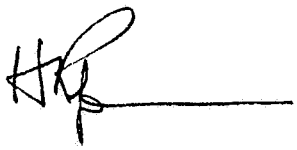
1. Petrographic report KR 91/624 for kimberlite Mt. Hope -06 (Anomaly SH13)
2. Petrographic report KR 91/606 for kimberlite Mt. Hope -07 (Anomaly SH09)
3. Petrographic report KR 91/625 for kimberlite Mt. Hope -08 (Anomaly SH08)

The raw/field data for SIROTEM surveys over anomalies MH01 and MH14 (EL1518) and over anomaly SH14 (EL 1672) are being compiled and will be forwarded to you in due course.

Samples (cores/cuttings) of all drilling undertaken on Eyre Peninsula are presently being prepared and documented in Whyalla. These, and representative samples of the kimberlites discovered will be lodged with the Department's Core Library in Whyalla and we will contact Mr. Logan when all samples are ready for submission.

Please advise if you have any further requirements.

Yours faithfully,



H R ROBISON
Senior Divisional Geologist

RTF:HRR993

STOCKDALE PROSPECTING LIMITED

EL 1527

1. AMG Co-ordinates for Drillholes, Quarter ended 11/10/90.

DH NO.	ANOMALY NO.	EASTING	NORTHING
21	MW19	560984	6296713
22	MW18	560024	6298846

2. Results for loam samples over magnetic anomalies, Quarter ended 1/4/92.

Sample No.	Anomaly No.
X7496	Negative
X7497	Negative
X7498	Negative
X7499	Negative
X7500	Negative