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ELS 825, 832, 833, 1146, 1150, 1151, 1522, 1523 AND 1524

MIDGERIE, BARTON SOUTH AND MOUNT CHRISTIE

JOINT FIRST PARTIAL SURRENDER REPORT FOR THE PERIOD 13/4/81 TO 29/9/91

Submitted by
Poseidon Exploration Ltd
1991

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ENVELOPE 8562

TENEMENT: EL 1522, Midgeree; EL 1523, Barton South; EL 1524, Mount Christie

TENEMENT HOLDER: Barton Joint Venture; Poseidon Exploration Ltd

CONTENTS OF VOLUME ONE

		SADME NO.
REPORTS:	**Poseidon Exploration Ltd, 1991**. Partial relinquishment report for ELs 1522 (Midgeree), 1523 (Barton South) and 1523 (Mt. Christie). Barton Joint Venture. Contents and introduction to relinquishment report.	**8562 R 1** Pgs 3-13
	Stockdale Prospecting Ltd, 1983. ELs 825, 832 and 833. Exploration carried out by Stockdale Prospecting Ltd (SPL) during the period 13 April, 1981 to 12 April, 1983.	**8562 R 2** Pgs 14-23
	Stockdale Prospecting Ltd, 1988. ELs 1146, 1150 and 1151. Exploration carried out by Stockdale Prospecting Ltd in the relinquished area during the period 3rd June, 1983 to 2nd June, 1988. (Quarterly periods 1 to 20).	**8562 R 3** Pgs 24-47
	CRA Exploration Pty Ltd, 1988. ELs 1146, 1150 and 1151. Exploration carried out by CRA Exploration Pty Ltd in the relinquished area during the period 3rd September, 1987 to 2nd June, 1988. (Quarterly periods 18 to 20).	**8562 R 4** Pgs 48-50
	Stockdale Prospecting Ltd, 1991. ELs 1522, 1523 and 1524. Exploration carried out by Stockdale Prospecting Ltd during the period 29 September, 1988 to 28 September, 1991. (Quarterly periods 1 and 2).	**8562 R 5** Pg. 51
	CRA Exploration Pty Ltd, 1990. ELs 1522, 1523 and 1524. Exploration carried out by CRA Exploration Pty Ltd during the period 29 September, 1988 to 8 June, 1990.	**8562 R 6** Pgs 52-54
	Poseidon Exploration Ltd, 1983. ELs 1522, 1523 and 1524. Exploration carried out by Poseidon Exploration Ltd in the relinquished area during the period 13 April, 1981 to 12 April, 1983.	**8562 R 7** Pg. 55
APPENDIX 1:	6th quarter to 12 October, 1982. Ground magnetic survey data. Drill hole logs. (Listed on Pg. 57 and Pg. 91). (ELs 825, 832 and 833).	Pgs 56-122

SADME NO.

CONTENTS OF VOLUME TWO

APPENDIX 2:	7th quarter to 12 January, 1983. Ground magnetic data. Drill hole logs. (Listed on Pg. 124).	Pgs 123-147
APPENDIX 3:	1st quarter to 3 September, 1983. Ground geophysical data. (ELs 1146, 1150 and 1151).	Pgs 148-188
APPENDIX 4:	14th and 15th quarter to 2 March, 1987. Ground magnetic data.	Pgs 189-263

CONTENTS OF VOLUME THREE

APPENDIX 5:	16th quarter to 2 June, 1987. EL 1151 anomalies - ground geophysical data.	Pgs 264-297
APPENDIX 6:	17th quarter to 2 September, 1987. Ground geophysical results.	Pgs 298-315
APPENDIX 7:	18th quarter to 2 December, 1987. Drilling results.	Pgs 316-432
APPENDIX 8:	**Marinelli, J.F., 1988.** Orientation geochemistry and ground geophysical results. (CRA Exploration Pty Ltd).	Pgs 447-456

PLANS

		Scale		
Fig. 2	Bar-1 anomaly. Sample lines.	1:25 000	Pg. 452	*A3*

APPENDIX 10:	**Palmer, D.C., 1969.** Soil geochemistry. (Bar-1 Prospect, Mt. Christie EL 1524, S.A.). (CRA Exploration Pty Ltd).	Pgs 457-468

PLANS

		Scale		
Fig. 3	Mt. Christie EL 1524, Bar-1 Prospect. Au ppm +20# soil geochemistry.	1:25 000	Pg. 464	*A3*
Fig. 4	As ppm +20# soil geochemistry.	1:25 000	Pg. 465	*A3*
Fig. 5	Base metal index map. (Cu, Zn, Co, Ba, As, Ni, Mn).	1:25 000	Pg. 466	*A3*
Fig. 6	Au index (Au, As, Co, Mn, Sb, Bi, Sn, Mo).	1:25 000	Pg. 467	*A3*
Fig. 7	Project grid location. Aeromagnetics.	1:25 000	Pg. 468	*A3*

APPENDIX 11:	Heavy mineral analysis.	Pgs 469-471

PLANS

		Scale	**Company Plan no.**		
	Drill hole location and Tertiary features map.	1:500 000		Pg. 471	*A3*
	List of plans.			Pg. 472	
Map. 2	Total field magnetic contour map.	1:50 000	SEL 1701A	8562-1	
Map. 3	Total field magnetic contour map.	1:50 000	SEL 1700A	8562-2	

PLANS		Scale	Company Plan no.	SADME NO.
	List of plans.			Pg. 473
Map. 4	Helicopter surveys, planned and completed.	1:250 000	SEL G96C	8562-3
Map. 5	Sand cover map. (Remote sensing study).	1:250 000	SEL 1910	8562-4
Map. 6	Sample location map.	1:50 000		8562-5
	List of plans.			Pg. 474
Map. 2	Anomaly locations.	1:250 000	SEL G95A	8562-6
	List of plans.			Pg. 475
Map. 2	EL and sheet (1:25 000) locations.	1:250 000	SEL 2198A	8562-7
	VLF and magnetic profiles. List of plans.			Pg. 476
Fig. 1	Anomaly 5436-1/W11	1:10 000	SEL G362b	8562-8
Fig. 2	Anomaly 5436-4/E12	1:10 000	SEL G364b	8562-9
Fig. 3	Anomaly 5436-4/E10	1:10 000	SEL G363b	8562-10
Fig. 6	Anomaly 5536-1/E05	1:10 000	SEL G365b	8562-11
Fig. 8	Anomaly 5436-4/W12	1:10 000	SEL G369b	8562-12
Fig. 12	Anomaly 5536-4/E07	1:10 000	SEL G404b	8562-13
Fig. 13	Anomaly 5536-4/E08	1:10 000	SEL G401b	8562-14
Fig. 14	Anomaly 5536-4/W10	1:10 000	SEL G403b	8562-15
Fig. 15	Anomaly 5536-1/W07	1:10 000	SEL G402b	8562-16
Fig. 17	Anomaly 5536-4/W03, W04			Missing
Fig. 25	Anomaly 5636-1/E05	1:10 000	SEL G418b	8562-17
Fig. 30	Anomaly 5436-2/E26	1:10 000	SEL G433b	8562-18
Fig. 31	Anomaly 5436-2/E17	1:10 000	SEL G432b	8562-19
Fig. 32	Anomaly 5435-4/W01, W02, W03	1:10 000	SEL G431b	8562-20
Map. 2	EL and sheet (1:25 000) locations with target locations.	1:250 000	SEL G2198c	8562-21

CONTENTS OF VOLUME FOUR

PLANS		Scale	Company Drawing no.	SADME Plan no.
	Total field magnetics. List of plans.			Pg. 477
Fig. 4	Anomaly 5535-4/E10.	1:10 000	SEL G442b	8562-22
Fig. 6	Anomaly 5536-2/E09.	1:10 000	SEL G444b	8562-23
Fig. 7	Anomaly 5535-4/E02, E03.	1:10 000	SEL G439b	8562-24
Fig. 13	Anomaly 5536-2/E12.	1:10 000	SEL G440b	8562-25
Fig. 14	Anomaly 5536-2/W03, W04.	1:10 000	SEL G447b	8562-26
Fig. 21	Anomaly 5435-1/W03.	1:10 000	SEL G466b	8562-27
Fig. 23	Anomaly 5436-3/W09.	1:10 000	SEL G476b	8562-28
Fig. 30	Anomaly 5535-1/W10.	1:10 000	SEL G474b	8562-29
	List of plans.			Pg. 478
Map. 2	Ground geophysical location map.	1:250 000	SEL 2198d	8562-30
Map. 2	EL and sheet (1:25 000) locations with ground targets.	1:250 000	SEL 2198c	8562-31
	List of plans.			Pg. 479
Map. 2	Location of proposed drill holes and track construction.	1:250 000	SEL 2538B	8562-32
	List of plans.			Pg. 480
Map. 2	1985 drilled anomalies and track construction.	1:250000	SEL 2674	8562-33

PLANS		Scale	Company Drawing no.	SADME Plan no.
	List of plans.			Pg. 481
Map. 2	1985 drilled anomalies and track construction. Summary of basement petrology.	1:250 000	SEL 2674	8562-34
	List of plans.			Pg. 482
	EL and sheet (1:25 000) locations. Anomalies surveyed June-Sept 1986.	1:250 000	SEL 2198E	88562-35
	List of plans.			Pg. 483
Map. 2	Locations and anomalies surveyed Dec 1986 - Feb 1987.	1:250 000	SEL 2198G	8562-36
Map. 3	Anomalies surveyed Sept-Dec 1986.	1:250 000	SEL 2198F	8562-37
Map. 4	Anomalies surveyed June-Sept 1986.	1:250 000	SEL 2198E	8562-38
	List of plans.			Pg. 484
Map. 2	Anomalies surveyed March-June, 1987.	1:250 000	SEL 3018	8562-39
	List of plans.			Pg. 485
Map. 2	1987 drill hole locations.	1:250 000	SEL 3051	8562-40

CONTENTS OF VOLUME FIVE

PLANS		Scale	Company Plan no.	
	List of plans.			Pg. 486
	Aeromagnetic contours.	1:100 000		8562-41
	Grid locations north sheet.	1:100 000	SAa4942	8562-42
	Station posting maps:			
	Barton 5436	1:100 000	SAa4784	8562-43
	Midgerie 5435	1:100 000	SAa4785	8562-44
	Taloreh 5536	1:100 000	SAa4786	8562-45
	Free air gravity:			
	Midgerie 5435	1:100 000	SAa4787	8562-46
	Taloreh 5536	1:100 000	SAa4788	8562-47
	Barton 5436	1:100 000	SAa4789	8562-48
	Evaluation contours:			
	Midgerie 5435	1:100 000	SAa4790	8562-49
	Taloreh 5536	1:100 000	SAa4791	8562-50
	Barton 5436	1:100 000	SAa4792	8562-51
	Bouguer gravity contours:			
	Midgerie 5435	1:100 000	SAa4793	8562-52
	Taloreh 5536	1:100 000	SAa4794	8562-53
	Barton 5436	1:100 000	SAa4795	8562-54
	List of plans.			Pg. 487
	Bouguer gravity profiles.	1:250 000	SAa4892	8562-55
	Bouguer gravity contours and prospect location plan.	1:250 000	SAa4896	8562-56
	List of plans.			Pg. 488

PLANS		Scale	Company Plan no.	
	Drill logs geochemistry:			
	Bar-1 sheets 1 to 5.		SAa4187b	8562-57 to 8562-61
	Bar-3 sheets 1 to 2.		SAa4187b	8562-62 to 8562-63
	Bar-4 sheets 1 to 2.		SAa4187b	8562-64 to 8562-65
	Magnetic and gravity profiles:			
	Bar-1 Prospect.	1:25 000	SAa4934	8562-66
	Bar-3 Prospect.	1:25 000	SAa4935	8562-67
	Bar-4 Prospect.	1:25 000	SAa4936	8562-68
	Bar-10 Prospect.	1:25 000	SAa4941	8562-69
	Drill hole logs:			
	Bar-1 Prospect PD88MC1		SAa5039	8562-70
	Bar-3 Prospect PD88MC4		SAa5040	8562-71
	Bar-4 Prospect PD88MC5		SAa5041	8562-72
	List of plans.			Pg. 489
Map. 3	Total field magnetic contour map - sheet 5 of 7.	1:100 000	SEL 1612B	8562-73
Map. 4	Total field magnetic contour map - sheet 6 and part 3.	1:100 000	SEL 1613B	8562-74
Map. 5	Anomaly locations.	1:250 000	SEL 3926	8562-75
Map. 7	Photo interpretation Barton area channel study.	1:250 000	SEL 2029	8562-76

END OF CONTENTS

SEPARATELY HELD DATA

RELATED REPORTS:

For additional information see also Envelopes 8411 and 4266.

POSEIDON EXPLORATION LIMITED

PARTIAL RELINQUISHMENT REPORT

FOR

EXPLORATION LICENCES 1522 (Midgerie)
1523 (Barton South)
1524 (Mt Christie)

BARTON JOINT VENTURE

Locality : Northwest Gawler Craton
Map Sheets : Barton Sh 53-9 1:250,000
: Fowler Sh 53-13 1:250,000

Part [redacted] 1 of 5

CONTENTS

1. INTRODUCTION

2. TENURE

3. EXPLORATION HISTORY

4. LOCATION and ACCESS

5. REGIONAL GEOLOGY

6. EXPLORATION ACTIVITIES : 13 April, 1981 to 28 September, 1991

6.1 ELs 825, 832, 833. Exploration by SPL in relinquished area during period 13 April, 1981 to 12 April, 1983:

6.1.1 1st Quarter Report to 12 July, 1981
6.1.2 2nd " " to 12 October, 1981
6.1.3 3rd " " to 12 January, 1982
6.1.4 4th " " to 12 April, 1982
6.1.5 5th " " to 12 July, 1982
6.1.6 6th " " to 12 October, 1982
6.1.7 7th " " to 12 January, 1983
6.1.8 8th " " to 12 April, 1983

6.2 ELs 1146, 1150, 1151. Exploration by SPL in the relinquished area during the period 3 June, 1983 to 2 June, 1988:

6.2.1 1st Quarter Report to 2 September, 1983
6.2.2 2nd " " to 2 December, 1983
6.2.3 3rd " " to 2 March, 1984
6.2.4 4th " " to 2 June, 1984
6.2.5 5th " " to 2 September, 1984
6.2.6 6th " " to 2 December, 1984
6.2.7 7th " " to 2 March, 1985
6.2.8 8th " " to 2 June, 1985
6.2.9 9th " " to 2 September, 1985
6.2.10 10th " " to 2 December, 1985
6.2.11 11th " " to 2 March, 1986
6.2.12 12th " " to 2 June, 1986
6.2.13 13th " " to 2 September, 1986
6.2.14 14th " " to 2 December, 1986
6.2.15 15th " " to 2 March, 1987
6.2.16 16th " " to 2 June, 1987
6.2.17 17th " " to 2 September, 1987
6.2.18 18th " " to 2 December, 1987
6.2.19 19th " " to 2 March, 1988
6.2.20 20th " " to 2 June, 1988

6.3 ELs 1146, 1150, 1151. Exploration by CRAE in relinquished areas during period 3 September, 1987 to 2 June, 1988:

6.3.1 18th Quarter Report to 2 December, 1987
6.3.2 19th " " to 2 March, 1988
6.3.3 20th " " to 2 June, 1988

6.4 ELs 1522, 1523, 1524. Exploration by SPL in relinquished areas during period 29 September, 1988 to 28 September, 1991:

6.4.1 1st Quarter Report to 28 December 1988
6.4.2 2nd " " 28 March, 1989

6.5 ELs 1522, 1523, 1524. Exploration by CRAE over relinquished area during period 29 September, 1988 to 8 June, 1990:

6.5.1 1st Quarter Report to 28 December, 1988
6.5.2 2nd " " to 28 March, 1989
6.5.3 3rd " " to 28 June, 1989
6.5.4 4th " " to 28 September, 1989
6.5.5 5th " " to 28 December, 1989
6.5.6 6th " " to 28 March, 1990
6.5.7 Final Report completed during the 7th Quarter to 28 June, 1990.

6.6 ELs 1522, 1523, 1524. Exploration by Poseidon Exploration Limited in relinquished areas during the period 29 September, 1990 to 29 September, 1991:

6.6.1 Quarter Report Ending 28 December, 1990
6.6.2 " " " 28 March, 1991
6.6.3 " " " 28 June, 1991
6.6.4 " " " 28 September, 1991

LIST OF APPENDICES

ELs 825, 832, 833

Appendix I	6th Quarter to 12 October, 1982. Ground magnetic survey data. Drill hole logs.
Appendix II	7th Quarter to 12 January, 1983. Ground magnetic data. Drill hole logs.

ELs 1146, 1150, 1151

Appendix III	1st Quarter to 3 September, 1983. Ground geophysical data.
Appendix IV	14th and 15th Quarters to 2 March, 1987. Ground magnetic data.
Appendix V	16th Quarter to 2 June, 1987. EL 1151 Anomalies-ground geophysical data.
Appendix VI	17th Quarter to 2 September, 1987. Ground geophysical results.
Appendix VII	18th Quarter to 2 December, 1987. Drilling results.
Appendix VIII	20th Quarter to 2 June, 1988 (SPL) 1987 Drilling : Au Pd analysis results.
Appendix IX	CRAE : Orientation geochemistry. : Ground geophysical results.
Appendix X	CRAE : Soil geochemistry.
Appendix XI	CRAE : Heavy mineral analysis.

LIST OF PLANS

ELs 825, 832 and 833 (SPL)

6th Quarter Ending 12 October, 1982
Map 2 Total Field Magnetic Contour Map
Map 3 " " " " "

ELs 1146, 1150, 1151 (SPL)

1st Quarter Ending 2 September, 1983
Helicopter Surveys Planned and Completed
Sample Location Map
Sand Cover Map

2nd Quarter Ending 2 December, 1983
Anomaly Locations

4th Quarter Ending 2 June, 1984
EL and Sheet (1:25,000) Locations

5th Quarter Ending 2 September, 1984
VLF and Magnetic Profiles:
Fig. 1 Anomaly 5436-1/W11
Fig. 2 " 5436-4/E12
Fig. 3 " 5436-4/E10
Fig. 6 " 5536-1/E05
Fig. 8 " 5436-4/W12
Fig. 12 " 5536-4/E07
Fig. 13 " 5536-4/E08
Fig. 14 " 5536-4/W10
Fig. 15 " 5536-1/W07
Fig. 17 " 5536-4/W03, W04
Fig. 25 " 5636-1/E05
Fig. 30 " 5436-2/E26
Fig. 31 " 5436-2/E17
Fig. 32 " 5435-4/W01, W02, W03

6th Quarter Ending 2 December, 1984
Fig. 4 Total Field Magnetics Anomaly 5535-4/E10
Fig. 6 " " " " 5536-2/E09
Fig. 7 " " " " 5535-4/E02, E03
Fig. 13 " " " " 5536-2/E12
Fig. 14 " " " " 5536-2/W03, W04
Fig. 21 " " " " 5435-1/W03
Fig. 30 " " " " 5535-1/W10

7th Quarter Ending 2 March, 1985
Ground Geophysical Location Map

8th Quarter Ending 2 June, 1985
Location of Proposed Drill Holes and Track Construction

11th Quarter Ending 2 March, 1986
1985 Drilled Anomalies and Track Construction

12th Quarter Ending 2 June, 1986
1985 Drilled Anomalies. Summary of Basement Petrology.

13th Quarter Ending 2nd September, 1986
Anomalies surveyed June - September, 1986

14th and 15th Quarters Ending 2 March, 1987
Map 2 Locations and Anomalies Surveyed December, 1986-February 1987
Map 3 " " " September-December, 1986
Map 4 " " " June-September, 1986

16th Quarter Ending 2 June, 1987
Anomalies Surveyed March-June, 1987

17th Quarter Ending 2 September, 1987
1987 Drill Hole Locations

18th Quarter Ending 2 December, 1987 (CRAE)
Aeromagnetic Contours
Grid Locations

Station	Posting	Map:	Barton	5436	No. SAa 4784
"	"	"	Midgerir	5435	No. SAa 4785
"	"	"	Taloreh	5536	No. SAa 4786
"	"	"	Midgerie	5435	No. SAa 4787
"	"	"	Taloreh	5536	No. SAa 4788
"	"	"	Barton	5436	No. SAa 4789
"	"	"	Midgerie	5435	No. SAa 4790
"	"	"	Taloreh	5536	No. SAa 4791
"	"	"	Barton	5436	No. SAa 4792
"	"	"	Midgerie	5435	No. SAa 4793
"	"	"	Taloreh	5536	No. SAa 4794
"	"	"	Barton	5436	No. SAa 4795

ELs 1146, 1151, 1151 (CRAE)

19th Quarter to 2 March, 1988
Bouguer Gravity Profiles
Bouguer Gravity Contours and Prospect Location Plan

ELs 1522, 1523, 1524 (CRAE)

1st CRA Quarter Report to 28 December, 1988

BAR-1	Drill Logs, Geochemistry			
BAR-3	"	"	"	
BAR-4	"	"	"	
BAR-1	Magnetic and Gravity Profiles 1:25,000			
BAR-3	"	"	"	"
BAR-4	"	"	"	"
BAR-10	"	"	"	"
BAR-1	Drill Hole Logs -	PD88MC1		
BAR-3	"	"	"	PD88MC4
BAR-4	"	"	"	PD88MC5

1. INTRODUCTION

The following report details exploration carried out over parts of Exploration Licences 1522, 1523 and 1524 which were relinquished on 29 September, 1991. The tenements have been owned by Stockdale Prospecting Limited since granting under ELs 825, 832 and 833 on 13 April, 1981. During their tenure the licences have been renewed as ELs 1146, 1150 and 1151, and then as ELs 1522, 1523 and 1524. The following report reviews work carried out since inception, including diamond exploration by Stockdale and precious and base metal exploration by both CRA Exploration Pty Limited and Poseidon Exploration Limited in Joint Venture with Stockdale Prospecting Limited.

2. TENURE

The tenements were originally granted to Stockdale Prospecting Limited (SPL) on 13 April, 1981 as ELs 825, 832 and 833. They were subsequently renewed as ELs 1146, 1150 and 1151 on 13 June, 1983, and then as ELs 1522, 1523 and 1524 on 29 September, 1988. The term of licences have been extended annualy since inception. Expiry of the tenements on 29 September, 1991 was concurrent with an Exploration Licence Application for a single tenement over a reduced area within the three original licence areas. Refer to Figure 1.

3. EXPLORATION HISTORY

Stockdale Prospecting Limited has explored for diamonds since the original granting of the ELs. On 14 August, 1987 CRA Exploration Pty Limited (CRAE) Joint Ventured into the tenements with the right to explore for all minerals except diamonds. They withdrew from the Joint Venture on 8 June, 1990.

On 31 August, 1990 Poseidon Exploration Limited (Posex) entered into joint venture with SPL, also with the right to explore for all minerals except diamonds. The Joint Venture was current up to the date of expiry.

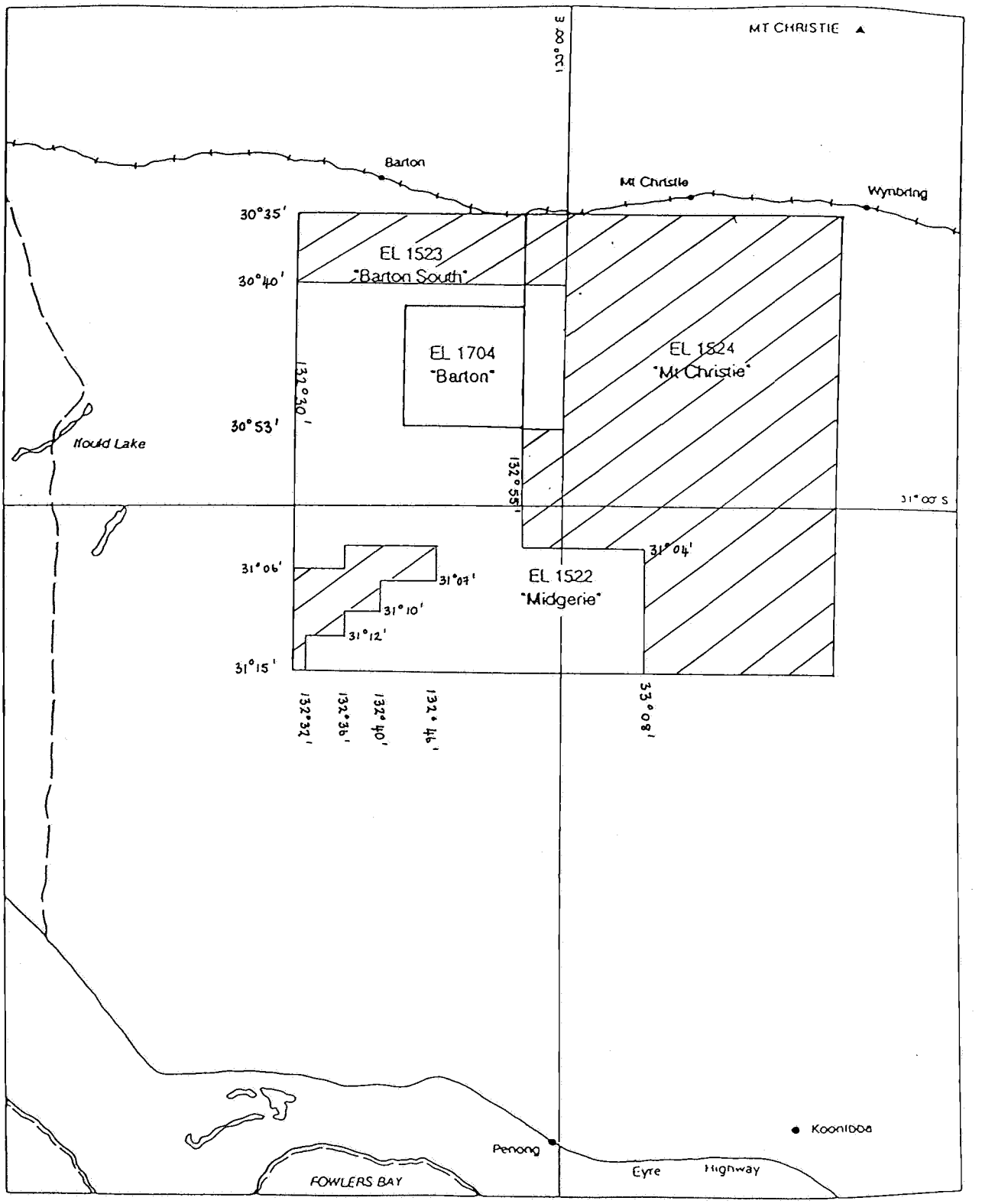
Quarterly Reports on all exploration activities have been submitted to the Mines Department of SA from 13 April, 1981. Details are as follows:

Stockdale Prospecting Limited

ELs 825, 832, 833
Quarter Reports 1 to 8 (13 April, 1981 to 12 April, 1983)

ELs 1146, 1150, 1151
Quarter Reports 1 to 20 (3 June, 1983 to 2 June, 1988)

ELs 1522, 1523, 1524
Quarter Reports 1 and 2 (29 September,1988 to 28 September, 1991)



Area included in relinquishment report

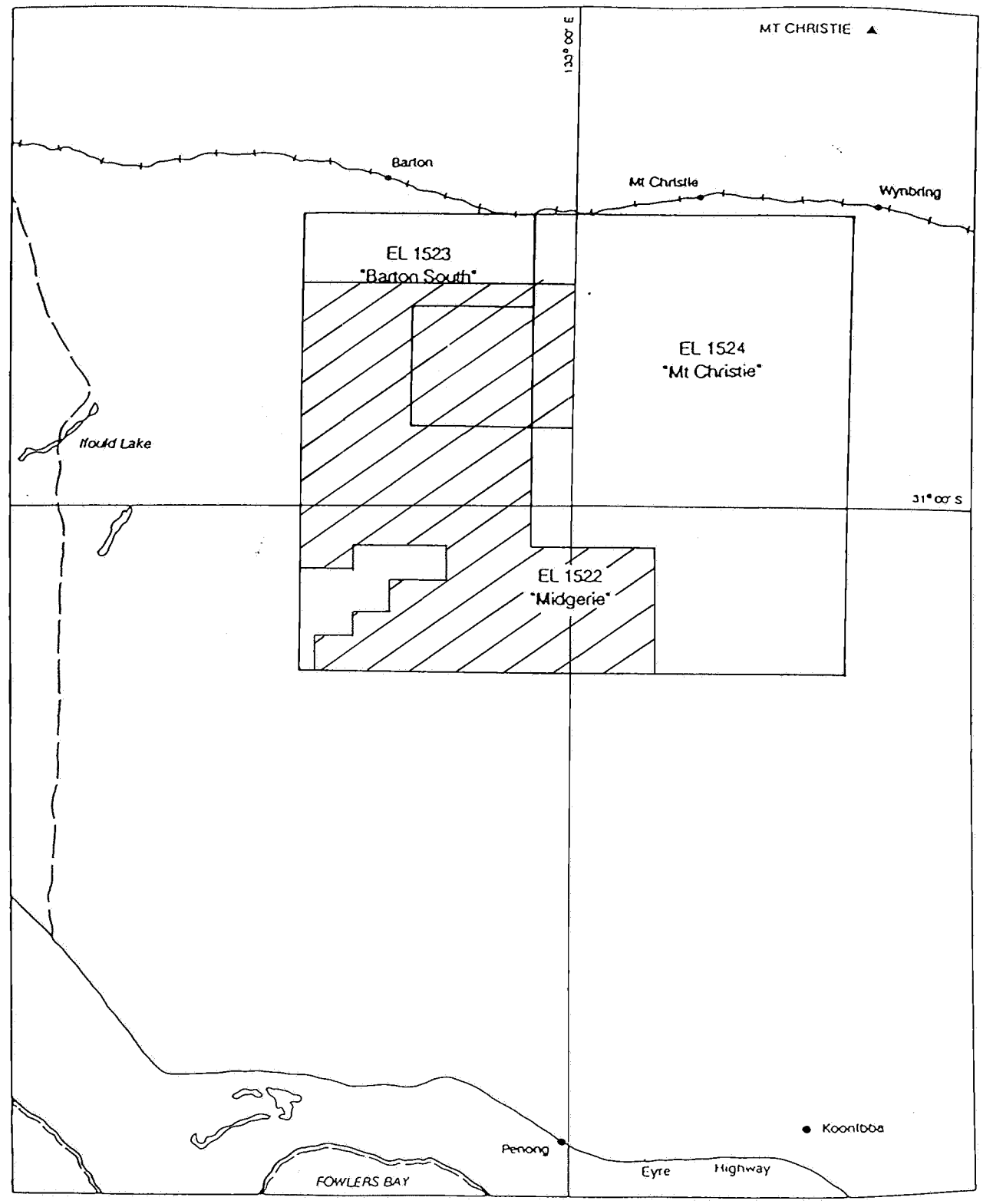
POSEIDON EXPLORATION LIMITED

Location Diagram

BARTON JOINT VENTURE

EL's 1522, 1523 & 1524

Compiled	Date	Scale	Figure No
N Green	24 01 1991	1:1,000,000	1



Area not included in relinquishment report

POSEIDON EXPLORATION LIMITED

Location Diagram

BARTON JOINT VENTURE

EL's 1522, 1523 & 1524

Compiled	Date	Scale	Figure No
N Green	24 01 1991	1:1,000,000	1

CRA Exploration Pty Ltd on behalf of the Barton Joint Venture

ELs 1146, 1150, 1151
Quarter Reports 18-20 (3 September, 1987 to 2 June, 1988)

ELs 1522, 1523, 1524
Quarter Reports 1 to 6 (29 September, 1988 to 28 June, 1990)

Poseidon Exploration Limited on behalf of the Barton Joint Venture

ELs 1522, 1523, 1524
Quarter Reports for the period 29 December 1990 to 28 September, 1991.

4. LOCATION and ACCESS

The relinquished areas outlined in this report are part of a square group of tenements located on the Barton SH53-9 and Fowler SH53-13 1:250,000 sheets. Fig. 1.

The tenements are accessed via Barton Siding some 200 km west of Tarcoola along the Trans Australian Railway line. Access within the ELs is limited to bulldozed tracks established by Stockdale and CRAE for drill rig access.

The closest population centre is Barton Siding where a small community of ANR employees reside. Facilities are limited to a public telephone and a rail siding for dispatch of goods. The closest centre for fuel and water requirements is Tarcoola.

The ELs are situated in sand dune country which is the south-eastern extension of the Great Victoria Desert. The dunes host a variably thick vegetation cover of mallee/acacia scrub and spinifex, with patches of native pine. The climate is arid to semi-arid with rainfall recorded between 150-200mm, mainly in winter. Summers are hot and dry.

5. REGIONAL GEOLOGY

The geology covered by the relinquished parts of ELs 1522, 1523 and 1524 is summarised on the Barton and Fowler 1:250,000 geological map sheets.

Late Archean-Early Proterozoic basement metamorphics (Mulgathing Complex lithologies) are intruded by Early-Middle Proterozoic granites.

The basement geology is covered by Tertiary to Quaternary duricrust and very recent aeolian sand dunes which are the dominant landforms.

6. EXPLORATION ACTIVITIES

Exploration carried out within the relinquished parts of the three tenements are reported in quarter periods.

EXPLORATION LICENCES (ELs) 825, 832 and 833

EXPLORATION CARRIED OUT BY STOCKDALE PROSPECTING LIMITED (SPL)

during the period 13 April, 1981 to 12 April, 1983

1ST QUARTER REPORT TO 12 JULY, 1981

ELs 825, 832 and 833 form part of a group of tenements acquired by Stockdale Prospecting Limited (SPL) on 13 April, 1981.

No work was carried out within the three tenements. Plans were drawn up for an airborne aeromagnetic, VLF and radiometric survey to include 825, 832 and 833.

2ND QUARTER REPORT TO 12 OCTOBER, 1981

No work relevant to the relinquished ground was reported.

The Aerodata airborne magnetic VLF and radiometric survey was in progress during this period.

3RD QUARTER REPORT TO 12 JANUARY, 1982

ELs 832 and 833 were included in a helicopter reconnaissance of the Barton dune field. It was concluded that accurate navigation could be achieved with good photography and that ground access was feasible.

Airborne geophysics still in progress.

4TH QUARTER REPORT TO 12 APRIL, 1982

Aerodata geophysical survey completed, but still unprocessed. No further work relevant to relinquished ground.

5TH QUARTER REPORT TO 12 JULY, 1982

Detailed interpretation of the Aerodata Survey was in progress to define targets.

A base camp was set up 2 km south-east of Barton Siding.

6TH QUARTER REPORT TO 12 OCTOBER, 1982

Airborne Geophysical Survey

Interpretation of geophysical data by Geophysical Exploration Consultants Pty Ltd has identified a number of distinctive magnetic zones with their approximate boundaries delineated. Refer to Maps SEL 1700A, 1701A.

Follow-up to Airborne Geophysical Survey

Loam Sampling: Loam samples were collected from anomalies within Map Sheet 5436-1. Sample conditions were noted as very poor with very little concentrate and the material predominantly siliceous and fine (<20 mesh). Samples were collected as 20 kg-112 + 36 mesh size. Results from samples had all been returned with no kimberlite indicator minerals observed.

Samples from Map Sheet 5436-4 had been submitted for analysis.

Ground Geophysics

Initial ground follow-up involved magnetic traverses over the airborne anomalies indicated on the 1:50,000 aeromagnetic contour sheet 5436-1. Anomaly locations were transferred from 1:25,000 contour plans to the flight line plans and then located on 1:25,000 black and white photographs. The anomaly centres were then located on the ground by photonavigation from a helicopter. Ground surveys with magnetometer readings taken at 50m intervals were then made along north-south and east-west profiles in order to confirm airborne data and locate peak magnetic readings for drill hole placement.

In general, plotted magnetic profiles showed strong correlation with airborne data.

Work on 5436-4 1:50,000 sheet commenced toward the end of the quarter.

Drilling Operations

Drill targets on sheet 5436-1 were selected using both ground magnetometer profile plots in conjunction with airborne data.

A caterpillar D6B bulldozer was hired to construct access roads to drill locations.

Drilling commended on 8 September, using RC Bourne 2000 ng (Nitschke Drilling Pty Ltd).

Results

Drilling intersected ubiquitous thick aeolian sand cover with a maximum depth of 100m generally overlain by carbonaceous silt and lignite up to 34m thick, resting on clays derived from basement. Fresh basement varied from 40 to 148m and comprised one of four rock types: granite, schist, granodiorite and basalt.

The general local succession is therefore as follows:

	Lithologies	Typical Description	Depth Range
AEOLIAN SAND	Calcrete Sandstone Silcrete Ferricrete	Well rounded medium to coarse quartz sand	36 - 100
LIGNITE	Carbonaceous Silt/sand Lignite	dark, laminated silt with rootlets	56 - 132
CLAY (Weathered Basement?)	Gritty clay	grey sericitic clay with muscovite flakes	36 - 148
BASEMENT	Granite Granodiorite Schist Basalt	(see below)	46 - 148+

The Quaternary aeolian sand is generally oxidised at and near surface becoming fresh, pale grey, well rounded, medium to coarse grained below. It often contains horizons of carbonate-cemented sand, silcrete and heavily ferruginised sand, and appears to pass directly into carbonaceous sands. These overlie a carbonaceous facies which is interpreted as basement surface. Daly (1981) regards similar lithologies on the Tarcoola sheet as members of the Pidinga Formation of Middle Eocene age. Fine disseminated pyrite is common in some of the lignitic sequences.

Directly beneath these Tertiary sediments, highly altered and weathered basement is represented by multi-coloured clays. Where basement is granitic, the clays are highly sericitic and are underlain by angular quartz and muscovite grains in a clayey matrix.

Refer to Table 1 : Drill log summary 1:50,000 Map Sheet 5436-1.

Refer to Appendix I for: Ground Magnetic Survey Data - Map Sheet 5436-1; Drill Hole Logs - Map Sheet 5436-1

7TH QUARTER TO 12 JANUARY, 1983

Drilling of selected anomalies on sheet 5436-1 continued. Additional work on these drilled targets included resistivity soundings, sirotem surveys, downhole re-logging and downhole magnetometry (total field). Magnetic anomalies on sheet 5436-4 were located with ground magnetometer traverses and loam sampling.

TABLE 1: DRILLHOLE LOG SUMMARY 1:50,000 MAP SHEET 5436-1

H53-9 A.M.G. REF.	ANOMALY	D.H. NUMBER	LOCATION	DEPTH ESTIMATE (M)	TOTAL DEPTH (M)	THICKNESS (m) AEOLIAN SAND	LIGNITE	WEATHERED BASEMENT	BASEMENT	BEDROCK TYPE	BASEMENT MAGNETIC SUSCEPTIBILITY MAX. (x10)	DEPTH (m)	HOLE STATUS
596214	W08	1	50W/ 50S	150-250	114	0- 84	84- 88	88-114	-	Granite?	18	96-100	Aband.
		3A	250W/250S	150-250	72	0- 72	-	-	-	-	-	-	Aband.
		3B	250W/250S	150-250	200	0- 76	84- 88	88-116	116-200	Granite	10	126-128	
603215	E04	1	OE/100S	25- 35	56	0- 40	-	40- 46	46- 56	Schist	5	48- 50	
		2	OE/ 50S	25- 35	66	0- 36	-	36- 64	64- 66	Schist	11	40- 44	
604214	E05	1	OE/150S	45- 55	96	0- 60	-	60- 96	-	Schist?	92	88- 92	
595215	W06	1	OE/1500S	90-120	152	0- 98	98-132	132-152	-	Granite?	45	144-148	
		2A	OE/1400S	90-120	104	0- 96	96-104	-	-	-	-	-	Aband.
		2B	OE/1400S	90-120	152	0- 96	96-128	128-152	-	Granite?	16	148-152	
594224	W01	1	200W/150S	35- 45	48	0- 36	-	36- 40	40- 48	Basalt?	40	46- 48	
		3	150E/100S	35- 45	46	0- 40	-	40- 45	45- 46	Gneiss	5	40- 46	
593221	W02	1A	200E/450S	100-160	68	0- 56	56- 68	-	-	-	-	-	Aband.
		1B	200E/450S	100-160	82	0- 56	56- 72	72- 82	-	Grano-diorite?	25	80- 82	Aband.
590220	W03	1	300W/ 50S	50-120	148	0-100	100-124	124-136	-	Granite?	5	132-136	Aband.
		2	200W/100S	50-120	148	0- 96	96-124	124-148	-	Granite?	4	128-132	Aband.
597218	E19	1	50E/ 70S	50- 80	98	0- 80	80- 88	88- 92	92- 98	Granite	26	92- 94	
600218	E02	1	OE/300S	50- 70	80	0- 64	-	64- 66	66- 80	Grano-diorite/ schist	48	78- 80	
		2	OE/100S	50- 70	104	0- 72	-	72- 96	96-104	Grano-diorite	69	100-102	
597215	W05	1	100W/550N	90-200	148	0- 92	92-112	112-148	-	-	10	132-136	Aband.

TABLE 2 : DRILL HOLE LOG SUMMARY 1:50,000 MAP SHEET 5436-1

H53-9 A.M.G. REF.	ANOMALY	DH NUMBER	LOCATION	DEPTH ESTIMATE (m)	TOTAL DEPTH (m)	THICKNESS (m) AEOLIAN SAND	LIGNITE	WEATHERED BASEMENT	BASEMENT	BEDROCK TYPE	BASEMENT MAGNETIC SUSCEPTIBILITY MAX ($\times 10^{-6}$ cgs)	BASEMENT MAGNETIC SUSCEPTIBILITY DEPTH (m)	HOLE STATUS
597210	E07	1	150S/100W	50- 80	144	0-68	68-76	76-104	104-144	Quartz Chlorite Biotite Schist	369	136-140	Completed
604209	E10	1	50S/100W	35- 70	92	0-56	-	56- 66	66- 92	Gneiss Schist	742	80- 82	Completed
592213	W07	1	0N/300W	100-200	174	0-72	72-96	96-142	142-174	Gneiss	33	158-160	Completed
587210	W09	1	100N/0W	50- 65	96	0-16	-	16- 31	31- 96	Acid Gneiss	17.5	32- 34	Completed

Drilling was completed on anomalies E07, E10, WO7, W09. See summary of results appended (Table 2).

Drill Samples

Holes were sampled as composite 4m intervals. No kimberlite indicators were observed. Selective samples were also submitted to AMDEL, Adelaide for Cu, Pb, Zn, Co, Ni and Cr Analysis by AAS. Results indicate low concentrations of all these elements in all samples.

Geophysical Surveys

Resistivity surveys were applied to selected holes. The Schlumberger configuration (all 4 electrodes placed systematically along a straight line with the current electrodes placed outside the potential electrodes) was used. Half spacing electrode separation ranged from 10 to 500m. The aim was to calibrate resistivity data against drill hole data and outcrops as well as to define the limits of applying the method.

Preliminary results indicated the method produced reliable results for determining sand thickness provided not more than two layers are present.

Sirotem Surveys (TM/EM system) were carried out at selected anomalies. Loop sizes of 50, 100, 150, 200m were measured on EO7 and WO8; plus 200m loops on remaining anomalies.

Down hole magnetometer readings were taken at selected drill sites: e)2, E04, E05, W01, W03, W06, W08, W09, W12.

Geochemistry

Loam sampling - all results were negative.

Refer to Appendix II for ground magnetic survey data and drill hole logs.

8TH QUARTER TO 12 APRIL, 1983 (see over)

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCES NOS. 825, 826, 828-833, 835-837,

TARCOOLA-BARTON

EIGHTH QUARTERLY REPORT TO 12TH APRIL, 1983.

1. INTRODUCTION

This report summarises the work completed in ELs 825, 826, 828-833 and 835-837 between 13th January, 1983 and 12th April, 1983 (Map 1).

Following the completion of drilling on selected anomalies on 1:50 000 Map Sheet 5436-1 (ELs 831, 832 and 833) during the last quarter, the present period has mainly been spent analysing geophysical data generated within the airborne survey area. Most work has been directed towards developing techniques which will aid in differentiating between areas of thick and thin sand cover. It will then be possible to allocate greater resources to more prospective areas.

The analysis of geophysical data has included interpretation of the resistivity and Sirotem data acquired last quarter. In addition, the Research and Technical Services (RATS) section in Melbourne has completed a regional interpretation of the airborne records and carried out DIPS processing of both Landsat imagery and the geophysical (magnetic,radiometric and VLF) data.

In the field, further sampling of anomalies on the 1:50 000 Map Sheet 5436-1 area has continued in conjunction with additiona magnetic profiles on 4 anomalies. Gravity surveys have also been done over 8 anomalies.

A quantitative assessment of possible relationships between surface sand grain size and sand thickness has also been compiled.

Statistical analysis of the concentrate weights of the negative samples from ELs 826(part), 828, 829, 830(part) and 837 has proved the area to be unprospective for diamond-bearing bodies. These licence areas will not be renewed.

2. EXPLORATION ACTIVITIES

2.1 Overall Interpretation

2.1.1 Airborne and Regional Geophysics

Preliminary analysis of the total airborne geophysical data by the company's Senior Geophysicist has identified 426 targets. The VLF and radiometric data also revealed that areas of thin sand cover and isolated outcrops could be delineated. These outcrops often represent basement topographic highs. Coincident

VLF and magnetic anomalies without outcrop are interpreted as shallow conductive zones representing possible mineralisation.

Initial work with the DIPS filtering and enhancement technique on the radiometric airborne data has shown that the uncorrected potassium, uranium and thorium radiation level increases over the north-west and south-east regions of the survey area. This may be related to a thinning of the sand cover in these areas. By combining radiometric, VLF and magnetic data, a map showing outcrop and shallow sand is feasible. Results from this interpretation should be available during the next quarter.

From an examination of the aeromagnetic data in conjunction with available drillhole information, the total field magnetic pattern provides no direct evidence of variation in the sand thickness.

A regional geological map has been produced, using an integration of the aeromagnetic contours and available BMR Bouguer gravity data (Maps 2 and 3). Despite the coarse sampling interval of the gravity data (8x8km) good correlation occurred with the magnetic contours for regional structures. The Colona and Coorabie Fault systems are prominent on either side of a major gravity low graben structure. Basic and ultrabasic intrusives and sediments are also inferred.

2.1.2 Landsat Imagery

DIPS interpretation of Landsat full scenes and sub-scenes for the flown area was commenced by RATS during the quarter. Results are being processed.

A brief reconnaissance helicopter survey to ground check certain anomalous features recognised from Landsat was made over specific parts of all ELs. Most large scale colour and textural variations appeared to be represented by vegetational differences notably burnt areas, although some were unexplained by visual checking. Isolated outcrops were also visited.

At this stage, it is anticipated that Landsat imagery in itself will not offer many benefits to aid determination of sand cover, although it may have value when used in conjunction with the geophysical data.

2.1.3 Grain Size/Sand Thickness Analysis

In an attempt to identify a relationship between surface sand grain size and sand thickness, an intensive programme of sampling, sieving and data analysis has been undertaken this quarter at base camp, using computer facilities in Melbourne.

In total, 172 samples were taken from 18 localities of known sand thickness within ELs 831, 832 and 833. Most of these locations were magnetic anomalies drilled by SPL in 1982. Sand scoops of about 2kg were taken from undisturbed surface sand and sieved through 12,14,20,30,40,50,65,100,150 and 200 mesh screens. Mesh fractions were weighed and calculated as percentages and cumulative percentages.

Four sample types were selected for analysis :-

i) crest to crest : Sand samples were taken at SPL drillholes in crest, midslope and swale positions. Results may prove characteristic grain size distributions from each dune location.

ii) Off-Anomaly : Samples were taken from swales outside the ground magnetic peaks of certain anomalies, to determine whether an anomalous grain size frequency distribution exists over magnetic anomalies.

iii) Outcrop : Ten sand samples were taken adjacent to an outcrop on Map Sheet 5436-1 in EL 832, to determine whether there is a coarsening in grain size towards the outcrop.

iv) On-Anomaly : Samples were taken from swales containing or adjacent to SPL drillholes to establish a relationship between grain size and sand thickness.

Presentation of data has been completed and comprised : histograms of sieve classes, graphical plots, cumulative frequency diagrams, ternary diagrams of various sieve classes and grain size frequency distribution parameters (mean size, sorting, skewness and kurtosis).

Results will be presented in the next quarterly report.

2.2 1:50 000 Map Sheet 5436-1.

2.2.1 Heavy Mineral Sampling

A further programme of heavy mineral sampling has been carried out over those anomalies whose magnetic sources were not explained by drilling. Sixty six 20kg samples of -12+36# material were taken over 13 anomalies (Map 4).

All samples have been treated and examined for diamonds and kimberlitic indicator minerals. None were found.

The remaining drill chip samples from last quarter's drilling programme have also been examined for indicators and all proved negative.

2.2.2 Geophysical Surveys

Ground Magnetics

Additional magnetic profiles were surveyed over 4 anomalies on Map Sheet 5436-1. All lines were north-south at close spacing in order to produce a contoured plan of the ground magnetic pattern. Station interval was 50m on W08 and 25m on W01, W04 and W12. The total line length of ground profiles was 54.75km.

The magnetic profiles are presented in Appendix 1.

Gravity

Gravity profiles over 8 selected anomalies on Map Sheet 5436-1 were undertaken by C. Mackie Geophysics Pty. Ltd., during March 1983. The objective was to obtain high resolution Bouguer corrected gravity data over the following anomalies : E03, E07, E10, W01, W07, W08, W09 and W12. All surveys consisted of 2 perpendicular profiles, one north-south and the other east-west. Station intervals were 50m at the centre and 100m towards the ends of the profiles.

The results are presently being interpreted.

Sirotem/Resistivity

Results of the Sirotem loop soundings and resistivity soundings carried out last quarter have not been fully reported. However, initial indications suggest that the Sirotem soundings compare favourably with strata thicknesses recorded during drilling.

EXPLORATION LICENCES : 1146, 1150 AND 1151

EXPLORATION CARRIED OUT BY STOCKDALE PROSPECTING LIMITED

in the relinquished area during the period

3rd June, 1983 to 2nd June, 1988

(Quarterly Periods 1 to 20)

1ST QUARTER REPORT TO 3RD SEPTEMBER, 1983

ELs 1146-1153 were granted so that exploration could be continued on ground formerly held under EL titles 825, 826, 832-833 and 836 by SPL. ELs 1146-1153 were granted on 3 June, 1983 for a period of one year.

EL boundaries for 1146, 1150 and 1151 correspond with boundaries of former ELs 825, 832 and 833.

EXPLORATION ACTIVITIES

Regional Geophysical/Landsat Imagery

Hussey (1983) studied airborne geophysical data (magnetics, spectrometry, and VLF-EM) and Landsat Imagery. The major result of the study was the compilation of a sand cover thickness map (expressed qualitatively). Refer to Plan: Sand Cover Map.

Based on the study, the thin sand cover areas were equated with shallow depth to basement.

1:50,000 Sheet Studies

SPL divided its ELs into a series of 1:50,000 sheets. Exploration relevant to the relinquished ground is as follows:

1. Exploration Activities - 1:50,000 Sheet Studies

   The company has divided its combined licence area into a series of 1:50,000 sheets. Discussion of exploration activities will be based within individual sheet studies.

   1.1 Sheet 5436-1

   Ground Magnetics:

   Additional magnetic profiles were surveyed over 13 anomalies. The anomalies are EO3, EO4, EO6, EO7, E10, E11, E13, E19, WO3, WO7, W11, W13, W20. 92.3 line kilometres of magnetic surveying were completed in the period. Refer to Appendix III.

   Anomaly locations are shown on Map 4 : SELG96C. Grid magnetic values and the corresponding contour plans and, for E07, E10 and WO3, profiles are enclosed in Appendix III.

Helicopter Geophysics:

A helicopter borne geophsical system was used to fly low level traverses over a number of magnetic anomalies within the Barton ELs. Survey parameters were:

Sensor mean terrain clearance	30 metres
Flight line spacing	75 - 100 metres
Flight line direction	020° (m)
Tie line spacing	500 metres
Tie line direction	110° (m)
Air speed	50 knots
meg. cycle rate	0.5 sec.
Data collected	Total field magnetics,VLF-EM

Navigation was visual, using 1:10,000 black and white photos.

Within the 5436 - 1 sheet, 5 anomalies/anomaly groupings for a total of 1,270 line kilometres were flown (Map 4).

Data processing is complete and final plots are awaited. These will be incorporated into the next report.

Sirotem Survey:

Timmins Geophysics Pty Ltd were contracted to complete Sirotem surveys over a number of anomalies, using grid systems already established for the ground magnetic traverses.

The survey used 200 metre loop sizes, receive and transmit cables being coincident. Loop centres along survey lines were either 100 metres or 200 metres apart.

On the 5436 - 1 sheet, surveys were done over anomalies:

E03	9 soundings
E05	9 soundings
E06	7 soundings
E11	8 soundings
E13	9 soundings
W09	9 soundings
W11	7 soundings

Locations of anomalies are displayed on Map 4. Survey results await processing and interpretation.

Sirotem surveys and resistivity soundings (Schlumberger) were completed over a number of anomalies in the 5436 - 1 sheet area in the early part of the year. Results have now been interpreted and a report is being prepared for inclusion in the next quarterly report.

Gravity Survey:

Gravity surveys over eight anomalies within the 5436 - 1 sheet still await final processing.

Preliminary results indicate the presence of basin structures within basement at many anomalies. This is backed up by the Sirotem surveys and confirmed by the presence of basin sediments in many of the drill holes.

Grain Size Analysis:

48 samples, each of one kilogram weight, were collected for grain size analysis.

Sieve sample results were incorporated into the grain size report.

1.2 Sheet 5436 - 4

Ground Magnetics:

Additional ground magnetic profiles were surveyed over eight anomalies - EO1, EO4, EO9, E10, E12, E13, E16, E17 (Map 4) - for a total of 120.10 line km. Grid magnetic values and contour plans are located in Appendix III.

Helicopter Geophysics:

Six anomaly/anomaly groupings were flown through the period for 355 line kilometres (Map 4).

Final plots will be incorporated in the report for the next period.

Sirotem Surveys:

Surveys were completed over the following anomalies:

EO2	7 soundings
EO4	9 soundings
EO7	8 soundings
WO2	7 soundings
W10	8 soundings
W12	9 soundings

Anomaly locations are shown in Map 4.

Survey results await processing and interpretation.

Refer to Maps : Helicopter surveys - Planned and completed. Plus sample Location Map 6. Sand Cover Map SEL 1910.

2ND QUARTER REPORT TO 2ND DECEMBER, 1983

Exploration effort consisted principally of ground magnetometer surveys over selected areas targeted from airborne magnetic survey.

EL 1146 No work on relinquished area
EL 1150 No work on relinquished area
EL 1151 Three target localities were selected within relinquished ground.

Ground Magnetic Survey Summary

EL	1:50,000 Sheet	Anomaly	Line Kms
1151	5436 - 2	E24	11.3
1151	5536 - 4	W05	11.4
1151	5536 - 4	W06	12.8

Results: Ground magnetic survey results from E24, W05 and W06 were not reported. All three areas were noted as requiring extensions to the present grids.

Refer to Plan SEL G95A - Anomaly Location Plan.

3RD QUARTER REPORT TO 2ND MARCH, 1983

No information.

4TH QUARTER REPORT TO 2ND JUNE, 1984

Exploration efforts consisted of ground magnetometer profiles surveyed over selected airborne magnetic targets to locate the anomaly. These in turn were followed up using Schlumberger resistivity depth soundings, Sirotem time-domain EM surveys and heavy mineral indicator loan sampling.

EL 1146 No work carried out.
EL 1150 No work relevant to relinquished area.
EL 1151 The major part of field work conducted during the period has been in the area covered by EL 1151.

A total of 15 anomalies selected from the airborne magnetic survey were investigated.

Nine were located on the ground by surveying magnetic profiles while six had been located previously.

Refer to Table 3.

Resistivity depth soundings were made over the 15 anomalies. Three soundings were recorded at each anomaly in order to establish geo-electric sections.

Table 3: EL1151 Quarter ending 2/6/84

1:50 000 Sheet	Anomaly	Magnetic Profile Line Km	Resistivity Spread centre	Resistivity Spread direction	Loam samples
5436-2	E06	-	100W 50S	N-S	
			200E 100S	N-S	
			500E 100S	N-S	
5436-2	E07	-	600W 0N	N-S	
			300W 0N	N-S	
			100E 50S	N-S	
5536-1	W05	-	200W 0N	N-S	2
			600W 0N	N-S	
5536-1	W06	-	100E 0N	N-S	
			300W 0N	N-S	
			700W 0N	N-S	
5536-1	W07	2.2	700S 0W	E-W	2
			0N 0W	E-W	
			400N 0W	E-W	
5536-2	W03	2.0	100E 300S	E-W	2
			100E 0N	E-W	
			100E 400N	E-W	
5536-2	W04	1.7	400W 0N	N-S	2
			0W 0N	N-S	
			400E 0N	N-S	
5536-2	E09	2.4	300W 0N	N-S	2
			0W 0N	N-S	
5536-2	E10	1.8	400W 0N	N-S	2
			0W 0N	N-S	
			500E 0N	N-S	
5536-2	E12	2.2	100E 400N	E-W	
			100E 0N	E-W	
			100E 700S	E-W	
5536-3	W02	2.0	400W 100N	N-S	2
			100W 0N	N-S	
			300E 0N	N-S	
5536-4	W04	2.4	100E 700S	E-W	2
			100E 0N	E-W	
			100E 500N	E-W	
5536-4	W05	-	300W 200N	N-S	
			0W 0N	N-S	
			400E 0N	N-S	
5536-4	W06	-	50E 300N	E-W	
			50E 450N	E-W	
5536-4	E07	2.8	200E 350S	N-S	2
			700E 400S	N-S	
TOTALS	15	19.5	42 soundings		18

Table 4: Sirotem Surveys EL1151

1:50 000 Sheet	Anomaly	Traverse Line	No of Set Ups.
5536-4	W04	100E	9
5536-4	W06	50E	7

Table 5: EL1153 Quarter ending 2/6/84

1:50 000 Sheet	Anomaly	Magnetic Profile Line Km	Resistivity Spread Centre	Resistivity Spread Direct.	Loam Sample
5336-1	W02	2.2	0N 600W	N-S	
			0N 100W	N-S	
			0N 300E	N-S	
5336-1	E06		0W 300N	E-W	
			0W 0N	E-W	
			0W 300S	E-W	
5336-4	W01		300W100N	N-S	
			50W 0N	N-S	
			200E100S	N-S	
TOTALS	3	2.2	9 soundings		

Sirotem time-domain EM measurements were also recorded at two anomalies. The centres of the 200m square coincident loop configurations were located on a traverse line which crossed the located magnetic anomaly. These surveys will be interpreted in conjunction with the resistivity sections to give the electrical properties of the substrata (Table 4).

A total of 18 loam samples, each of 15 kg weight and +36# size fraction were collected to be examined for kimberlitic heavy mineral indicators.

The interpretation of the data from the resistivity and Sirotem surveys are still awaited while the examination of the loam samples are still in progress.

Refer to Plan SEL 2198A, EL and Sheet (1:25,000) Locations.

5TH QUARTER REPORT TO 2ND SEPTEMBER, 1984

Exploration efforts consisted of ground magnetometer profiles surveyed over selected airborne magnetic targets to locate the anomaly. These in turn were followed up using Schlumberger resistivity depth sounds, Sirotem line-domain EM surveys and heavy mineral indicator loam sampling. A helicopter borne magnetic and VLF survey was also carried out as follow-up to selecfted aeromag-anomalies.

EL 1146: A total 7 anomalies located within the tenement were surveyed with the helicopter-borne magnetic and VLF system. No ground follow-up was completed within the relinquished area. Refer to Table 6.

EL 1150: Four aeromagnetic anomalies were included in the helicopter borne geophysical survey. See below for specifications. No results returned.

Two anomalies were recommended for ground follow-up which involved both D.C. resistivity and Sirotem surveys.

Results from loam samples collected during the last quarter became available but did not contain any heavy mineral kimberlite indicators.

Refer to Table 7.

EL 1151: A total of twenty anomalies were surveyed using the helicopter geophysical system. Data was submitted to the Senior Geophysicist in Melbourne for processing and interpretation.

Ground work within EL 1151 consisted of ground magnetic profiles surveyed to locate anomalies on the ground. This in turn was followed up using D.C. resistivity depth soundings and Sirotem EM surveys. In total, eight anomalies had various geophysical surveys carried out over them. Data was submitted to the Senior Geophysicist in Melbourne for processing and interpretation (Table 8).

APPENDIX :

Helicopter-borne geophysical survey parameters

Mean Sensor Height	30 metres
Flight Line Spacing	75 - 100 metres
Flight Line Direction	Perpendicular to magnetic gradient.
Tie Line Spacing	500m
Air Speed	50 - 55 knots
Magnetometer Cycle Rate	0.5 - 0.75 seconds
Data Collected	VLF and Magnetic
Magnetometer	Geometrics G813
VLF Receiver	Herz Totem 1A
VLF Transmitter	N.W.C. (22.5 KHz)

TABLE 6 : EL1146

1:50 000 Map Sheet	Anomaly	Magnetic Profile Line Kms	Resistivity Centres (Local Grip)	Resistivity spread Directions	Loam Samples
5535-4	E03	1.8	300S 0E	E-W	
			0S 0E	E-W	
			300N 0E	E-W	
5535-1	W03	2.0	300N 100E	N-S	
			0N 100E	N-S	
			300S 100E	N-S	
5535-4	E-10	2.0	500SE 0NE	NE-SW	
			400NW 0NE	NE-SW	
			0NW 0NE	NE-SW	
5435-1	W05/W06	2.4	500E 0N	E-W	4
			100W 50N	E-W	
			400W 0N	E-W	
5435-1	W07	2.4	600E 0N	N-S	2
			0W 0N	N-S	
			400W 0N	N-S	
5435-4	W02	2.4	500N 150W	E-W	2
			0N 150W	E-W	
			600S 150W	E-W	
TOTALS	6	13.0 kms	18 Soundings		

TABLE 2: ANOMALIES COMPLETED WITH HELICOPTER GEOPHYSICS

5435-4 - W01	5535-4 - W02
5435-4 - W02	5535-4 - W12
5435-4 - W03	5535-4 - E02
5435-1 - W05	5535-4 - E03
5435-1 - W06	5535-4 - E10
5435-1 - W07	5535-1 - W03
5435-1 - W03	5535-1 - W10
	5535-1 - E06

TABLE 7: EL1150

1:50 000 Map	Anomaly	Resistivity Spread Centre	Spread Direction	Sirotem Traverse	No of Loop Set-ups
5436-4	x W11	500N - 0E	E-W	0E	9
		0N - 0E	E-W	S→N	
		400S - 0E	E-W		
5436-4	x E12	300N - 0E	E-W	0E	
		50S - 0E	E-W	S→N	9
		400S - 0E	E-W		
Totals	2	6 soundings		2	18 set-ups

TABLE 8: ANOMALIES COMPLETED DURING HELICOPTER SURVEY

5436-3 - E02	5436-4 - E10
5436-3 - E03	x 5436-4 - E12
5436-3 - E07	x 5436-4 - W10
5436-3 - E08	x 5436-4 - W11
5436-3 - W09	5436-4 - W12

TABLE 8: EL1151

1:50 000 Map	Anomaly	Magnetic Profile (Line kms)	Resistivity Centres	Spread Direction	Sirotem Traverse	Sirotem Loop Set-ups
5336-4	W06	-	200S/50E	E-W	-	-
5536-1	W05	-	1000W/0N	N-S	-	-
5436-2	E17	2.2	-	-	-	-
5436-2	E26	1.9	-	-	-	-
5536-4	W05	-	-	-	0N W→E	9
5536-4	W10	0.4	450N/100W	E-W	100W	8
			50N/100W	E-W	S→N	
			450S/100W	E-W		
5536-4	E07	-	250N/200E	E-W	200E	7
			350S/200E	E-W	S→N	
			750S/200E	E-W		
5536-1	W07	-	-	-	0W S→N	8
Totals	8	4.5	8 soundings		4	32set-up

TABLE 10: ANOMALIES COMPLETED DURING HELICOPTER SURVEY

5536-2 - E05	5536-1 - E02
5536-2 - E09	5536-1 - E05
5536-2 - E10	5536-1 - W07
5536-2 - E12	5536-4 - E08
5536-2 - W03	5536-4 - E07
5536-2 - W04	5536-4 - W03
5536-3 - E03	5536-4 - W04
5536-3 - E04	5536-4 - W10
5536-3 - W02	5436-2 - E17
5436-2 - E24	5436-2 - E26

No loam samples were collected from within EL 1151 during the last quarter. Results for loam samples collected during the quarter ending 2/6/84 became available, however, they proved negative after examination for heavy mineral kimberlitic indicators.

Refer to Plans : Figures 1-3, 6, 8, 12-15, 17, 25, 30-32 VLF and Magnetic Profiles.

6TH QUARTER REPORT TO 2ND DECEMBER, 1984

EL 1146: Further ground follow-up was completed over 4 anomalies in the relinquished area. Ground magnetic profiles, resistivity depth soundings and Sirotem were used over some of the anomalies. Table 9 gives surveying statistics. Results not included.

Loam samples (15 kg) and +0.55mm size fraction were collected for kimberlite indicator mineral examination. No results.

EL 1150: Ground follow-up was carried out over 4 anomalies within the relinquished area. D.C. resistivity and Sirotem surveys were carried out to define the conductive properties of magnetic anomalies and to provide thickness estimates for the younger sand cover. Data was still being interpreted. Refer to Table 10.

Loam samples were taken from anomaly 5436-3/W09.

EL 1151: Ground work consisted of ground magnetic profiles surveyed to locate anomalies on the ground. D.C. resistivity and Sirotem EM surveys were also used. In total, five anomalies had various geophysical surveys carried out. Data being interpreted. Refer to Table 11.

Loam samples were collected from 4 magnetic anomalies. Anomaly 5536-1/W05 produced abundant grains of chrome spinel and was followed up with a further 30 loam samples. These also produced grains of chrome spinel which confirmed that a distribution of heavy mineral grains existed in the dune field environment although limited in a real extent. Refer to Plans : Figures 4, 6, 7, 13, 14, 21, 30 Total Field Magnetics - Anomalies.

7TH QUARTER REPORT TO 2ND MARCH, 1985

1146: Follow-up Sirotem surveys were carried out over 2 anomalies:

5435-1/W03
5435-1/W10.

Results of loam samples collected in previous quarters were negative.

1150: Follow-up Sirotem surveys were carried out over 3 anomalies:

5436-4/W06
5436-4/W09
5436-4/E16.

Loam samples collected in previous quarters were negative.

Table 1: EL 1146

1:50 000 Sheet	Anomaly	Magnetic Profile Kms	Resistivity Spread Centre	Resistivity Spread Direction	Sirotem Traverse Line	Sirotem Loop Set-Up.	Loam Samples
5535-4	E10						2
5535-4	x E03						2
5435-4	W02				150W S - N	7	
5535-1	W03				100E S - N	7	2
5535-4	x E02	0.6	500S/0E	E-W	0E S - N	7	2
			200N/0E	E-W			
5435-1	x W03		450S/0E	E-W			2
			0N/0E	E-W			
			450N/0E	E-W			
5535-1	x W10	1.3	400W/150N	N-S			2
			00/150N	N-S			
			400E/150N	N-S			
			400E/50N	N-S			
			60/50N	N-S			
			400W/00	N-S			
Totals	5	1.9	12 Soundings		3	21 loops	12

Table 2: EL 1147

1:50 000 Sheet	Anomaly	Magnetic Profile Kms	Resistivity Spread Centre	Resistivity Spread Direction	Sirotem Traverse Line	Sirotem Loop Set-Up.	Loam Samples
5636-4	E02				0E S - N	7	
5636-1	W02	0.9	550S/150W	E-W	150W S - N	7	2
			50N/150W	E-W			
			650N/150W	E-W			
5636-1	W03	0.5	550E/50N	N-S	0N W - E	7	2
			50E/0N	N-S			
			450W/0N	N-S			
5636-4	W06	0.5	300S/100W	E-W	100W S - N	8	2
			100N/100W	E-W			
			500N/100W	E-W			
5636-3	W08				100W S - N	7	
Totals	4	1.9 kms	9 soundings		5	36 loops	6

Table 10: EL 1150

1:50 000 Sheet	Anomaly	Magnetic Profile Kms	Resistivity Spread Centre	Resistivity Spread Direction	Sirotem Traverse Line	Sirotem Loop Set-Up.	Loam Samples
5436-3	E07				0N W - E	7	
5436-3	W09	1.2	400S/0E	E-W	0E S - N	9	2
			0N/0E	E-W			
			400N/0E	E-W			
5436-4	E10		500W/0N	N-S	0N W - E	9	
			0E/0N	N-S			
			500E/0N	N-S			
5436-4	W06	2.35	400NW/00	NE-SW			
			00/00	NE-SW			
			400SE/00	NE-SW			
			350N/150W	E-W			
			0N/150W	E-W			
			450S/150W	E-W			
5436-4	E16		400S/0W	E-W			
			50S/0W	E-W			
			400N/0W	E-W			
5436-4	E09		400N/0W	E-W			
			50N/0W	E-W			
			450S/0W	E-W			
Totals	6	3.55km	18 soundings		3	25 loops	2 samp

Table 11: EL1151

1:50 000 Sheet	Anomaly	Magnetic Profile Kms	Resistivity Spread Centre	Resistivity Spread Direction	Sirotem Traverse Line	Sirotem Loop Set-Up.	Loam Samples
5536-2	W03				100E S - N	7	
5536-2	E09				0N S - N	7	
5536-2	E12				100E S - N	7	
5436-1	E12	0.8	400S/100E	E-W			
			00/100E	E-W			
			350N/00E	E-W			
5536-1	W05		00/00	N-S			32
			500E/00	N-S			
5436-2	E26						2
5436-2	E17						2
5536-4	W10						2
Totals	8	0.8km	5 soundings		3	21 loops	38 san

1151: Follow-up Sirotem surveys carried out over 2 anomalies:

5436-1/E12
5536-2/W04.

Loam samples negative.

Refer to Plan SEL 2198D : Ground Geophysical Location Map.

8TH QUARTER REPORT TO 2ND JUNE, 1985

1146: No work in relinquished area. No drill targets identified.

1150: Four anomalies were selected for drilling:

5436-1/W09; W11
5436-4/E09; W12
(Access tracks planned)

1151: Five anomalies selected for drilling (tracks planned).

5436-1/E12
5536-4/E07
5536-1/W07
5536-2/W04; E09

Refer to Plan SEL 2538B : Location of Proposed Drill Holes and Track Construction.

9TH QUARTER REPORT TO 2ND SEPTEMBER, 1985

1146: No work.

1150: 17 holes were drilled for a total 1,086 metres at five magnetic anomalies. Samples were collected at 3m intervals. No results available.

Refer to Table 12 : Summary of drill logs.

1151: 10 holes were drilled for a total 664 metres at five magnetic anomalies. Samples were collected at 3m intervals. No results available.

Refer to Table 12 : Summary of drill results.

10TH QUARTER REPORT TO 2ND DECEMBER, 1985

1146: No work during the quarter period.

1150: 85 samples taken from 17 drill holes were examined for heavy mineral kimberlitic indicators, however the results were negative.

1151: No work during the period. Samples taken from 10 drill holes were examined for kimberlitic indicators. Of 50 samples returned to date, all were negative. Further results pending.

DRILLHOLE LOG SUMMARY TABLE 12

EL No.	1:50,000 Map Sheet	Anomaly	DH No.	Location	Total depth (m)	Aeolian Sand Calcrete Silcrete	Tertiary sands Muds, clays	Lignite (m)	Weathered Basement	Basement Lithology	Maximum magnetic Susceptibility ($x10^{-5}$ S.I.)	Depth (m)
1148	5537-2	E01A	1	0N/0E	30	0-9	-	-	9-30	quartz-feld	400-500	24-30
			2	0N/25E	37	0-10	-	-	10-37	gneiss	440-520	12-21
1151	5536-1	W07	1	100S/0W	37	0-10	-	-	10-37	banded	* 570-810	33-36
			2	150S/0W	34	0-9	-	-	9-34	gneiss	2500-6000	29m
1149	5436-1	E03	1+1A	50S/50E	53	0-11	11-36	-	36-53	granite	200-600	39-42
			2	100S/50E	55	0-15	15-34	-	34-55	granite	400-700	24-27
1151	5436-1	E12	1	50S/0E	57	0-12	12-42	-	42-57	granitic	* 220-550	54-56
			2	50S/75E	45	0-10	10-39	-	39-45	gneiss	* 250-400	42-45
1151	5536-4	E07	1	350S/250E	87	0-7	7-42	-	42-87	Biotite feld rock	2800-5840	78m
1150	5436-1	W09	2	0N/75E	30	0-9	9-15	-	15-30	banded	* 400-550	27-30
			3	50N/125E	38	0-10	10-15	-	15-38	gneiss	170-320	36-38
			4	75N/75E	36	0-9	9-16	-	16-36		260-310	27-30
1150	5436-1	W11	1	100S/50W	39	0-12	12-27	-	27-39	quartz	* 100-1700	36-39
			2	125S/50W	30	0-10	10-27	-	27-30	feld-biotite	* 340-960	27-30
			3	100S/50W	54	0-12	12-24	-	24-54	banded	530-660	39-42
			4	75S/50W	62	0-12	12-27	-	27-62	gneiss	* 450-920	60-62
1150	5436-4	E09	1	150S/0E	19	0-19	-	-	-	abandoned	-	-
			2	100S/0E	102	0-21	21-47	47-77	77-102	quartz-bio	50-75	99-10
			3	0N/200E	39	0-24	24-30	30-36	36-39	feld-schist	53-68	36-39
			3A	0N/200E	75	0-24	24-30	30-36	36-75		* 100-1800	72-75
			4	60N/200E	78	0-11	11-34	34-35	35-78		* 2000-3800	78
1151	5536-2	W04	1	0N/0E	48	0-17	17-30	-	30-48	Banded	37-68	12-15
			2	30N/10W	98	0-18	18-29	-	29-98	Chlorite	-	-
			3	0N/10W	78	0-17	17-30	-	30-78	Schist	-	-
1151	5536-2	E09	1	100S/0E	76	0-15	15-51	51-72	72-76	?	10-34	48-51
			2	50S/0E	102	0-13	13-49	51-78	78-102	?	-	-
1150	5436-4	W12	1	150S/100E	72	0-9	9-21	-	21-72	serpentinite	2100-2550	72m
			2	100S/100E	60	0-6	6-21	-	21-60	Banded gneiss	60-115	60m
			3	250S/100E	66	0-6	6-21	-	21-66	serpentinite	300-440	66m
1153	5336-1	E08	1	25S/125W	84	0-9	9-29	-	29-84	Biotite/ Chl.	-	-
			2	0S/100W	61	0-12	12-30	-	30-61	Schist ?Amphibolite	*1400-1600	61
1153	5336-1	E06	1	0S/0W	53	0-6	6-36	-	36-53	Biotite	-	-
			1A	0S/0W	60	0-6	6-36	-	36-60	Magnetite gneiss	-	-
1153	5336-1	W06	1	20S/0E	144	0-12	12-94	94-130	130-144	Musc.schist	-	-
1153	5336-4	W01	1	25S/50W	66	0-26	26-53	-	53-66	quartz dolerite	-	-
1150	5436-4	E12	1	50S/0E	142	0-10	10-58	58-111	111-142	Qtz-mag	*1100-3100	140
			2	195S/50W	144	0-21	21-65	65-110	110-144	gneiss	29-48	130
1152	5336-1	E01	1	150S/0E	46	0-10	10-30	-	30-46	Granitic	* 200-780	46
			2	48S/2W	58	0-7	7-36	-	36-58	Gneiss	* 440-620	58
1148	5536-4	W02	1	50N/0E	49	0-6	6-33	-	33-49	Qtz/bio	*1000-1450	48
			2	50N/100W	36	0-6	6-36	-	-	Gneiss	* 50-1000	36
1148	5536-4	E04	1	100S/50E	72	0-12	-	-	12-72	Biotitic	*8000-12000	72
			2	0N/50E	54	0-9	-	-	9-54	Gneiss	* 360-540	42
1147	5636-1	W02	1	50S/150W	74	0-11	11-52	-	52-74	Banded Gneiss	* 530-2000	74
1147	5636-1	W03	1	25S/50E	53	0-7	-	-	7-53	Banded	* 800-2200	53
			2	45S/20E	43	0-7	-	-	7-43	Gneiss	200-400	43

* Suspected drill bit contamination.

12 14 to 2nd June '86

11TH QUARTER REPORT TO 2ND MARCH, 1986

1146: No work during the quarter period.

1150: A further 55 drill samples produced negative results.

1151: A further 21 drill samples produced negative results. No field work. Refer to Plan : 1985 Drilled Anomalies and Track Construction.

12TH QUARTER REPORT TO 2ND JUNE, 1986

No field work undertaken during the quarter period.

Work completed involved the processing and interpretation of susceptibility measurements and down hole magnetic surveys. These data were used in conjunction with airborne, helicopter-borne and ground magnetics and with drill hole information to review and revise interpretative procedures.

The original data from the fixed wing airborne magnetic survey flown in 1981-82 was re-levelled and re-gridded. This was done in preparation for application of filtering techniques by Digital Image Processing prior to interpretation and selection of targets for ground work in 1986.

Results:

Heavy Minerals:

All 921 drill samples now examined for kimberlitic indicators. All samples were negative.

Petrology:

Petrological examinations were carried out at Melbourne University and AMDEL Laboratories. A representative sample of basement was submitted from most drill holes. Rock types described included: amphibolites, altered mafic intrusives (serpentinites and pyroxenites), diorites, quartz diorites, granodiorites, granite gneiss and quartz rich granitoids. Refer to Table 12 and Map 2 : 1985 Drilled Anomalies, Summary of Basement Petrology.

Geochemistry:

Geochemical analyses representing each anomaly location drilled and totalling 245 samples did not reveal any significantly anomalous results. No details given.

13TH QUARTER REPORT TO 2ND SEPTEMBER, 1986

EL 1146: No work carried out.

EL 1150: No work carried out.

EL 1151: Magnetic and Sirotem surveys were completed over 4 anomalies. Two magnetic profiles, each of 600 metres were surveyed over each anomly, and then followed a Sirotem profile of 1,200 metres with 100 metre station inverals.

Anomalies completed:
5536-2/W15
5536-2/W16
5536-2/Anomaly C
5536-2/Anomaly D

Refer to Plan SEL 2198E : Anomalies surveyed June-September, 1986.

14TH QUARTER REPORT TO 2ND DECEMBER, 1986

EL 1146: No work.

EL 1150: Ground magnetic follow-up and Sirotem surveys were completed over 3 anomalies in relinquished area.

5436-4/W17
5436-4/W19
5436-4/W08

Each anomaly had 2 orthogonal magnetic profiles of length 600m surveyed and one Sirotem profile of up to 1,400m length with 100m station intervals.

EL 1151: Ground follow-up was completed over the following anomalies:

5536-4/E06
5536-4/E14
5536-4/E15
5536-3/W11
5536-2/E01
5536-4/W17
5536-1/W10
5536-1/W11

Refer to Appendix IV.
Refer to Plans SEL 2198E to G : Surveyed Anomalies.

15TH QUARTER REPORT TO 2ND MARCH, 1987

Exploration efforts were primarily concerned with the follow-up of geophysical anomalies selected from re-processed aeromagnetic data. Ground surveys carried out in the follow-up were for the most part identical for each anomaly. Anomalies were located from flight recovery photographs and then sited on the ground with the aid of a helicopter. Two orthogonal magnetometer traverses were measured across each. Traverses were generally orientated north-south and east-west, however, some anomalies which had a directional strike had their traverses orientated to survey across the maximum gradient. A Sirotem survey was conducted across each anomaly (usually north-south) along the initial magnetic traverse. The Sirotem surveys were conducted using 100m-a-side coincident loops on 100m centres.

If the peak of the magnetic anomaly was narrow, then the loops were sited to give 50% overlap on each reading over the apical area.

Results

Results of surveys carried out in the two previous quarters are presented in Appendix IV.

EL 1146: Two anomalies were surveyed in the relinquished area:

Anomaly	Magnetic Profiles	Sirotem Profiles	Sample No.
5535-1/W11	600S-600N;600W-500E	600W-300E	S9790
5535-1/E06	400S-500N;300W-300E	250S-200N	S9791

EL 1150: No follow-up in relinquished area.

EL 1151: Seven aeromag. anomalies followed up:

Anomaly	Magnetic Profiles	Sirotem Profiles	Sample No.
5536-2/E11	700S-500N (N30^{O}E), 600W-500E (E30^{O}W)	500S-400N	S9787
5536-2/E18	800S-600N, 400W-400E	700S-500N	S9788
5536-2/E19	600SW-500NE,400NW-400SE	400SW-500NE	S9789
5536-3/W12	500S-400N, 400W-400E	500S-400N	S9777
5536-3/W13	700S-600N, 500W-500E	450S-450N	S9785
5536-3/E02	600S-600N, 400W-500E	600S-600N	S9783
5536-4/W14	800S-500N, 500W-500E	600S-350N	S9784

16TH QUARTER REPORT TO 2ND JUNE, 1987

EL 1146: No work in relinquished area.

EL 1150: No work in relinquished area.

EL 1151: Ten anomalies were surveyed in the tenement:

Anomaly	Magnetic Profiles	Sirotem Profiles	Sample No.
5436-2/E07	prev.surv.	700W-200E	prev.samp.
5436-2/E27	500SE-700NW 600SW-500NE (ONW) 600SW-700NE (325NW)	400SE-500NW	X1631
5536-1/W05	prev.surv.	300S-400N (Line 600W)	prev.samp.
5536-1/W20	600SW-500NE 600NW-500SE	500SW-400NE	X1647
5536-1/E08	300S-400N 500W-300E	300S-400N	X1641
5536-1/E07	500S-500N 500W-450E	600S-600N	X1649
5536-1/E09	400S-700N 400W-600E	500W-700E	X1648
5536-1/E10	400S-500N 400W-400E	500S-400N	X1639
5536-4/W15	500SW-500NE 500NW-500SE	500NW-500SE	X1633
5536-4/W16	500S-500N 600W-600E	600S-400N	X1632

Refer to Appendix V for results : Ground Geophysical Data.

Refer to Plan SEL 3018 for anomaly locations - surveyed March-June 1987.

17TH QUARTER REPORT TO 2ND SEPTEMBER, 1987

Effective from 14 August, 1987, CRA Exploration Pty Ltd entered a Farm-In and Joint Venture Agreement with SPL over ELs 1146, 1150 and 1151. Their exploration efforts are reported separately.

EL 1146: No work.

ELs 1150 and 1151: Exploration involved the preparation for and the drilling of 12 coincident magnetic and Sirotem anomalies. Prior to drilling, tracks and drill pads were established over each target. Magnetic grids were surveyed over the targets to select optimum drill collar positions.

The anomalies drilled are listed below. Refer to Table 13 for summary of drill logs. Refer to Appendix VI - Ground Geophysical Results.

Refer to Map SEL 3051 for anomaly and access tracks locations : Drill Hole Locations and access tracks locations.

Anomaly		Depth (m)
EL 1150		
5436-4/W19		47
5436-4/E16	DH1	56
	DH2	40
	DH3	66
EL 1151		
5436-1/E11		51
5536-1/W05	DH1	57
	DH2	71
5536-1/W06		32
5536-1/E10		61
5536-2/E01		30.5
5536-3/W12		34
5536-3/W13		46
5536-4/W04	DH1	54
	DH2	48
5536-4/W05	DH1	74
	DH2	72
5536-4/W15		68
TOTAL		1245.5

Heavy Mineral Sampling

Drill hole samples were collected at 2m intervals for a total 623 samples. No results to date.

Petrology

Ten basement samples were submitted to AMDEL for petrological examination. No results to date.

Geochemical Samples

In addition to the heavy mineral sampling, small geochemical samples were collected from each interval. These were submitted for a 36 element XRF scan, and AAS analyses for Au and Pd. No results.

Down Hole Geophysics

Magnetic susceptibility of each 2m sample was measured. Results included on drill logs. Where possible, down hole magnetometer surveys were conducted after drilling, using a modified geometric 856 magnetometer. No results to date.

17th 1/4 to 2nd Sept'87.

TABLE 13 Barton Summary Log Sheet

HOLE NO	DATE DRILLED	EL	SHEET	CO-ORD	COLLAR	QUAT. SAND	TERT. SAND	CLAY	TOTAL DEPTH	RESULT	PEAK MAG SUSC. E -5 SI at		SAMPLE NOS	BASEMENT INT	CORE	PRIORITY
5436-1/E11	26/7/87	1151	H53-9	602 209	250E/125S	22	40	50	51	gneiss	15-20	50m	I3069-3094	I3089-3093	50-51m	3
5436-3/E07	17/7/87	1150	H53-9	575 172	240W/85N	22	46	90	104	gneiss	30-35	10m	I2483-2534	I2506-2534	-	2
5436-3/E08	17/7/87	1150	H53-9	581 168	0W/0N	6	30	60	68	gneiss	700-800	64m	I2535-2568	I2550-2568	-	1
5436-3/E11	15/7/87	1150	H53-9	577 173	0W/0N	8	44	70	78	gneiss	900-1000	78m	I2444-2482	I2466-2482	-	3
5436-4/E16 DH1	22/7/87	1150	H53-9	582 210	150S/50W	12	42	52	56	gneiss	20-30	54m	I2183-2840	I2834-2840	-	2
DH2	22/7/87	1150	H53-9		75W/110S	10	40	-	40	collapsed	20-30	2m	I2841-2860	-	-	
DH3	23/7/87	1150	H53-9		75W/120S	10	40	62	66	gneiss	150-200	64m	I2861-2893	I2881-2893	-	
5436-4/W15	20/7/87	1150	H53-9	562 199	0W/15S	14	24	87	88	amphibolite	5000	88m	I2705-2749	I2717-2748	87-88m	2
5436-4/W19	21/7/87	1150	H53-9	563 213	150E/75N	8	22	42	47	magnetic clays and gneiss	1500-2000	36m	I2789-2812	I2800-2812	-	1
5536-1/E10	28/7/87	1151	H53-9	658 207	0W/50S	6	-	58	61	altered ultramafic	5000-6000	60m	I3175-3204	I3178-3203	58-61m	1/2
5536-1/W05 DH1	27/7/87	1151	H53-9	639 210	600W/50S	2	-	54	57	silicified, aphanitic	2000	57m	I3095-3123	I3096-3122	54-57m	2
DH2	28/7/87	1151	H53-9		600W/20S	2	-	44	71	black, magnetic rock	2000-4000	71m	I3140-3174	I3141-3174	-	
5536-1/W06	27/7/87	1151	H53-9	645 209	300W/0S	10	-	15	32	gneiss	50-60	32m	I3124-3139	I3129-3139	-	3
5536-2/E01	25/7/87	1151	H53-9	653 189	0W/0N	8	-	26	30.5	epidote chlorite quartz rock	250-350	30m	I3053-3068	I3057-3067	30-30.5m	2
5536-3/W12	18/7/87	1151	H53-9	614 180	0W/0N	6	28	-	34	gneiss	600-1000	34m	I2569-2585	I2583-2585	-	2/3
5536-3/W13	18/7/87	1151	H53-9	614 187	0W/50S	10	30	43	46	gneiss	1500-2000	46m	I2586-2608	I2601-2608	-	2
5536-4/W04 DH1	24/7/87	1151	H53-9	612 206	70E/50S	6	40	47	54	gneiss	10-20	54m	I2929-2995	I2949-2995	-	2/3
DH2	25/7/87	1151	H53-9		50E/100S	6	44	-	48	gneiss	10-20	48m	I3029-3052	I3051-3052	-	
5536-4/W05 DH1	24/7/87	1151	H53-9	616 209	25W/0N	14	50	70	74	amphibolite	40-50	74m	I2956-2992	I2981-2992	-	2/3
DH2	25/7/87	1151	H53-9		50E/50N	10	50	70	72	amphibolite	100-150	70m	I2993-3028	I3018-3028	-	
5536-4/W15	18/7/87	1151	H53-9	616 194	0W/0N	4	16	62	68	iron formation	7000 - 10 000	62m	I2609-2642	I2617-2642	-	2

18TH QUARTER REPORT TO 2ND DECEMBER, 1987

No field work was carried out during the quarter.

Drilling

Detailed descriptions of the results of the drilling carried out during the 17th quarter, together with drill logs and plots of down hole magnetic data are appended. Petrographic reports for 21 samples submitted to AMDEL are also appended. Refer to Appendix VII.

No kimberlite or other potentially diamondiferous rock type was intersected during the drilling programme. Seven holes intersected ultramafic rocks ranging from pyroxenite to peridotite, all largely altered to amphibole or serpentine. Six holes intersected other plug-like bodies including amphibolites derived from mafic igneous intrusives, a foliated granodiorite and a metasomatically altered quartz diorite. The remaining magnetic anomalies were caused by magnetic units within the metamorphic basement stratigraphy.

Results

All samples were examined for diamonds and indicator minerals. Two produced positive results:

A single low interest spinel was recovered from 5436-4/W19 at a depth of 32.34m within an altered ultramafic dyke. Not considered significant.

Abundant low interest spinels were recovered from loam samples over 5536-1/W05 and were expected to be recovered in drilling. Highly silicified serpentinised ultramafic was intersected in two holes and abundant spinels were recovered in drill samples. The spinels were considered to be of low interest, and the altered rock retained a granular texture characteristic of peridotite. It appeared the source of the anomaly was serpentinised peridotite plug which carried about 4% disseminated chromite, and was not a kimberlite.

No results of geochemical samples to date.

19TH QUARTER REPORT TO 2ND MARCH, 1988

No information available.

20TH QUARTER REPORT TO 2ND JUNE, 1988

No field work was carried out during the quarter.

Geochemistry

The basement sections of drill holes from the 1987 drilling programme were analysed for Au and Pd. A maximum value of 52 ppb Pd was recorded in 5536-1/W10. Analytical results are appended. Refer to Appendix VIII.

EXPLORATION LICENCES : 1146, 1150 AND 1151

EXPLORATION CARRIED OUT BY CRA EXPLORATION PTY LIMITED

in the relinquished area during the period

3rd September, 1987 to 2nd June, 1988

(Quarterly Periods 18 to 20)

ELS 1146, 1150, 1151

WORK CARRIED OUT BY CRA EXPLORATION PTY LTD (CRAE)

18TH QUARTER REPORT TO 2ND DECEMBER, 1987

CRAE entered a Farm-In and Joint Venture Agreement with Stockdale Prospecting Limited (SPL) effective from 14 August, 1987.

During the quarter CRAE completed a semi-regional gravity survey at station density of 4 square kilometres over approximately 70% of the area enclosed by ELs 1146, 1150 and 1151.

Refer to: Plans SAa 4784-4786 Gravity Station Posting Maps
SAa 4787-4789 FreeAir Gravity Contours
SAa 4790-4792 Elevation Contours
SAa 4793-4795 Bouger Gravity Contours
Aeromagnetic Contours
Grid Locations

19TH QUARTER REPORT TO 2ND MARCH, 1988

No field work was completed.

An appraisal of the gravity and detailed aeromagnetic data disclosed a series of coincident bouger gravity/aeromagnetic anomalies on or adjacent to the north-easterly trending Colona and Coorabbie Fault zones. These anomalies were considered prospective for iron and/or intrusive related gold/base metal mineralisation and are detailed on Plan SAa 4765 as anomalies BAR-1 to BAR-4; BAR-9 and BAR-10.
Refer to Plans: Bouguer Gravity Profiles
Bouguer Gravity Contours and Prospect Location Plan.

20TH QUARTER REPORT TO 2ND JUNE, 1988

During the quarter, a two day helicopter reconnaissance trip was completed to inspect the proposed prospect areas. The original six prospect areas within the relinquished ground (BAR-1 to 4; BAR-9 and 10) were reduced to four. BAR-2 was found to coincide with an area of granitic outcrop and BAR-9 was down-graded on the basis of small size and low intensity of the gravity anomaly. Up to three ground recovery lines across each of the remaining targets were proposed, with ground magnetics (10m stations) and detailed gravity (100m stations) to be completed.

CRAE - FIRST ANNUAL REPORT FOR EL 1146, 1150 AND 1151 - BARTON, SA

for 12 month period ending 13 August, 1988

SUMMARY

To end of the first year of exploration over ELs 1146, 1150 and 1151 the following work had been completed:

- semi-regional helicopter borne gravity/INS survey
- selection of anomalous magnetic/gravity targets for investigation of iron, base metals or gold/uranium
- geophysical ground recovery of some of the above targets
- selection of drill targets
- extension of existing access tracks to reach proposed drill sites
- completion of orientation loam sampling programmes over BAR-1 prospect to test the potential of geochemical sampling methods.

CONCLUSIONS AND RECOMMENDATIONS

BAR-1, BAR-3, BAR-4	-	recommended for drill testing.
BAR-2	-	down-graded due to outcropping granite.
BAR-9	-	down-graded.

EXPLORATION LICENCES (ELs) 1522, 1523 AND 1524

EXPLORATION CARRIED OUT BY STOCKDALE PROSPECTING LIMITED (SPL)

during the period 29 September, 1988 to 28 September, 1991

(Quarterly Periods 1 and 2)

Exploration Licences 1522, 1523 and 1524 were granted on 29 September, 1988 for a term of one year. The licences were granted to cover the area previously held by Stockdale under Exploration Licence numbers 1146, 1150 and 1151 such that:

EL 1522 covers the same ground as EL 1146
EL 1523 " " " " " EL 1150
EL 1524 " " " " " EL 1151

CRA Exploration Pty Ltd entered a Farm-In and Joint Venture Agreement with SPL over the ground covered by ELs 1522, 1523 and 1524 on 14 August, 1987. Their activities are reported separately.

1ST QUARTER REPORT TO 28 DECEMBER, 1988

No field work was carried out by SPL during the quarter.

2ND QUARTER REPORT TO 28 MARCH, 1989

No field work was carried out during the quarter.

No further SPL reports are available.

See CRA Exploration Pty Ltd Quarter Reports on ELs 1522, 1523 and 1524 for period 29 September, 1988 to 8 June, 1990 (Quarter Periods 1 to 5).

EXPLORATION LICENCES (ELs) 1522, 1523 AND 1524

EXPLORATION CARRIED OUT BY CRA EXPLORATION PTY LIMITED

during the period 29 September, 1988 to 8 June, 1990

1ST QUARTER REPORT TO 28 DECEMBER, 1988

Exploration within ELs 1522, 1523 and 1524 involved gridding and ground geophysical recovery of four selected anomalous magnetic/gravity targets within the relinquished ground. Access tracks were extended to BAR-1, 3, 4, considered worthy of drill testing. Refer to Appendix IX.

Soil geochemical orientation programme was carried out over the BAR-1 prospect to test the potential of this method to delineate further drill targets. Details appended. Refer to Appendix IX.

Three percussion drill holes were completed over the targets. Apart from slightly elevated gold values in BAR-1 prospect, all other prospects returned negligible assays for precious and base metals. In all prospects drilled detection of increased magnetite, together with higher density intermediate to basic metamorphic lithologies, were responsible for the magnetic/gravity anomalies.

Drilling

BAR-1: Vertical percussion hole PD88MC1 (151m depth) was halted due to loss of the hammer bit. Medium grained, mafic-rich granodiorite to quartz diorite/quartz monzodiorite was intersected.

No significant mineralisation was observed, although minor epidote-chlorite alteration and traces of pyrite occurred sporadically. Assays for precious and base metals showed a very slight elevation in gold below 132m. Elevated magnetic susceptibility measurements (to 6,000 x 10.5 S1 units) plus a relatively dense host lithogy was considered sufficient to explain the coincident magnetic/gravity source.

BAR-3: Angled percussion hole PD88 MC4(100.5m) intersected fine dolerite, progressively metamorphosed with depth to biotite-amphibolite. No mineralisation or alteration were observed.

High density of the dolerite and amphibolite were considered sufficient to explain the anomaly.

BAR-4: Angled percussion hole PD88MC5 (100m) intersected gneiss and schist sequence which featured schistose amphibolite quartz-feldspar gneiss and quartz-biotite schist. No significant mineralisation or alteration were observed. Assays were negative. The high density lithology was considered sufficient to explain the anomaly.

CONCLUSIONS AND RECOMMENDATIONS

At BAR-1 prospect the magnetic/gravity anomaly source was found to be increased magnetite in a quartz-diorite rock. Slight elevation in gold values in drill hole PD88MC1 below 132m was observed and was recommended for follow-up with infill ground geophysics followed by drilling.

At BAR-3 prospect drill hole PD88MC4 revealed the source of the gravity anomaly as being a relatively dense dolerite progressively metamorphosed to biotite amphibolite. No further work considered warranted.

At BAR-4 prospect drill hole PD88MC5 revealed the gravity anomaly source as being achistose amphibolite to gneiss of relatively high density. No further work considered warranted.

Refer to Plans: Drill logs - Geochemistry
Magnetic and Gravity Profiles
Drill Hole logs.

2ND QUARTER REPORT TO 28 MARCH, 1989

No field work was undertaken during the quarter. Re-assay of sample intervals with elevated gold values in EL 1522 BAR-1 anomaly drill hole PD88MC1 was carried out and results received.

Results returned indicated no gold above detection limit (5 ppb). A multi-element NAA scan was also completed on the samples but no anomalous metals were detected. Laboratory contamination of crushing and grinding equipment was the likely cause of the original gold anomalism. BAR-1 anomaly was down-graded.

BAR-1 Anomaly Soil Geochemistry

Statistical interpretation of +20 mesh soil geochemical data from BAR-1 was completed. Procedure and results of the interpretation are shown in Appendix X.

In summary, the conclusions are that marginally higher metal values occur in the southern portion of the grid. Absolute element values fall within soil average element abundancies. The spatial distribution of coincident anomalous Au and base metal index values bears little relationship to geophysical data. Infill ground magnetics is required, together with analytical techniques having lower detection limits to fully assess coincident anomalous Au and base metal values.

3RD QUARTER REPORT TO 28 JUNE, 1989

No work was carried out relevant to the relinquished area.

4TH QUARTER REPORT TO 28 SEPTEMBER, 1989

No work was carried out relevant to the relinquished area.

5TH QUARTER REPORT TO 28 DECEMBER, 1989

No work was carried out relevant to the relinquished area.

6TH QUARTER REPORT TO 28 MARCH, 1990

No work was carried out relevant to the relinquished area.

FINAL REPORT INCLUDING WORK COMPLETED DURING THE 7TH QUARTER TO 28 JUNE,1990

Investigations into the potential for heavy mineral accumulations was completed during the quarter with no further work recommended. Details appended. Appendix XI.

A review of all past and current exploration failed to identify further potential for economic mineral deposits within the ELs.

No further work was recommended and CRAE withdrew from the Joint Venture Agreement with Stockdale Prospecting Limited.

Refer to Plans: Total field Magnetic Contour Map (X2)
Anomaly Location Plan 1:250,000
Photo Interpretation - Channel Study

ELs 1522, 1523 and 1524

EXPLORATION CARRIED OUT BY POSEIDON EXPLORATION LIMITED

in the relinquished area during the period

13 April, 1981 to 12 April, 1983

QUARTER PERIOD ENDING 28 DECEMBER, 1990

No work relevant to relinquished areas.

QUARTER PERIOD ENDING 28 MARCH, 1991

Airborne geophysical survey data generated by SPL and CRAE was re-processed and interpreted to define potential target localities.

No targets were identified in relinquished ground.

No further exploration was carried out in the relinquished areas.

QUARTER PERIOD ENDING 28 JUNE, 1991

No work relevant to relinquished areas.

QUARTER PERIOD ENDING 28 SEPTEMBER, 1991

No work relevant to relinquished areas.

Exploration Licences 1522, 1523 and 1524 expired on 29 September, 1991. An Exploration Licence Application was submitted for a reduced area within the previous tenement boundaries.

APPENDIX I

6th Quarter to 12 October, 1982.

Ground magnetic survey data.

Drill hole logs.

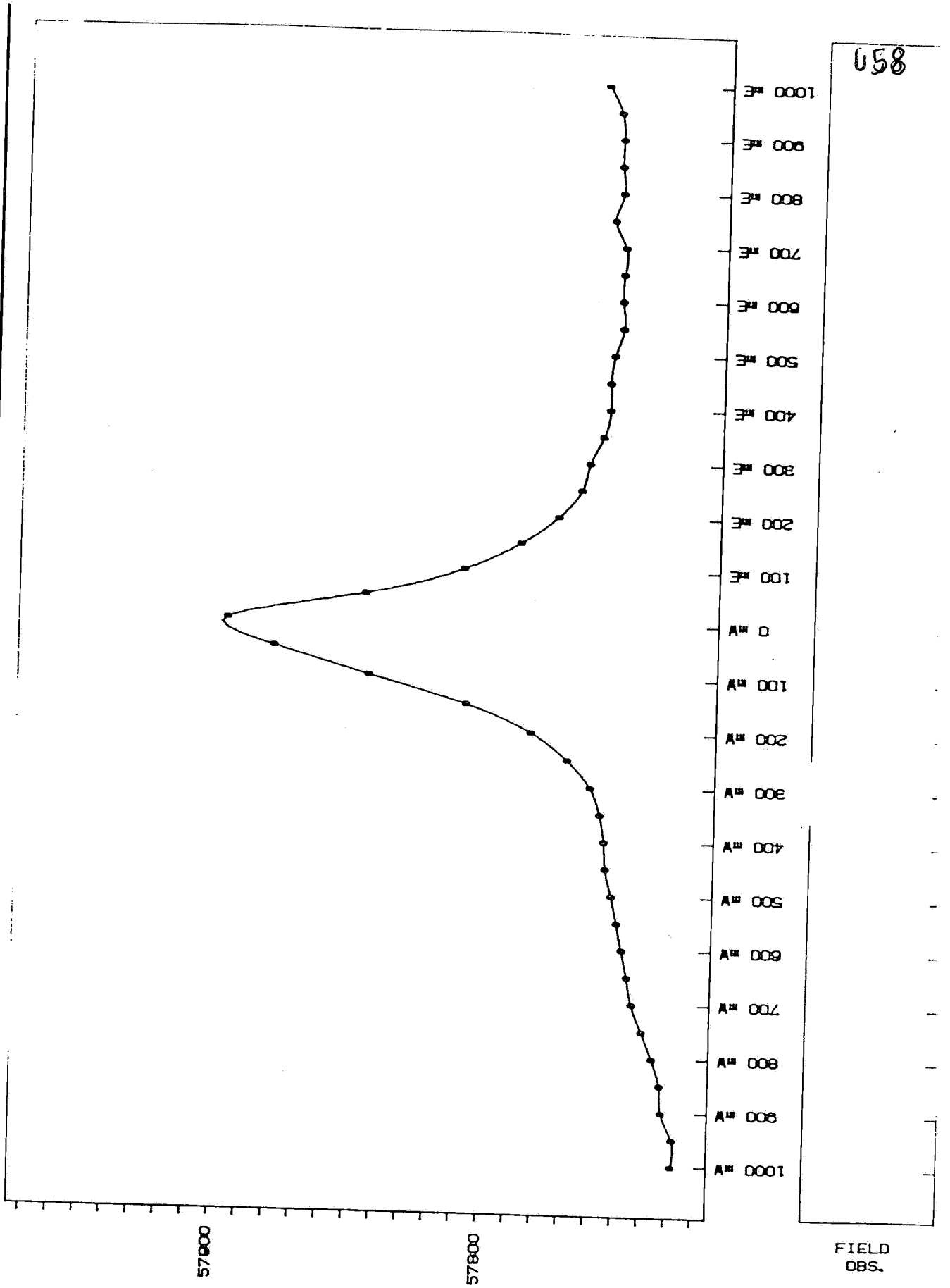
6th 1/4 To 12 Oct '82

APPENDIX I

GROUND MAGNETIC SURVEY DATA : MAP SHEET 5436-1

	MAP	ANOMALY	LINES
SEL	1707	E02	ON
	1708	E02	OE
	1736	E02	LOCATION MAP
	1709	E04	OE
	1710	E04	ON
	1737	E04	LOCATION MAP
	1711	E05	400E
	1712	E05	300E
	1713	E05	200E
	1714	E05	100E
	1715	E05	OE
	1716	E05	ON
	1717	E05	100W
	1718	E05	200W
	1719	E05	300W
	1720	E05	400W
	1721	E05	ON
	1738	E05	LOCATION MAP
	1724	E19	OE
	1725	E19	ON
	1739	E19	LOCATION MAP
	1726	W01	OE
	1727	W01	ON
	1740	W01	LOCATION MAP
	1728	W02	OE
	1729	W02	ON
	1741	W02	LOCATION MAP
	1730	W03	ON
	1731	W03	OE
	1742	W03	LOCATION MAP
	1743	W05	LOCATION MAP
	1744	W06	LOCATION MAP
	1745	W08	LOCATION MAP

058

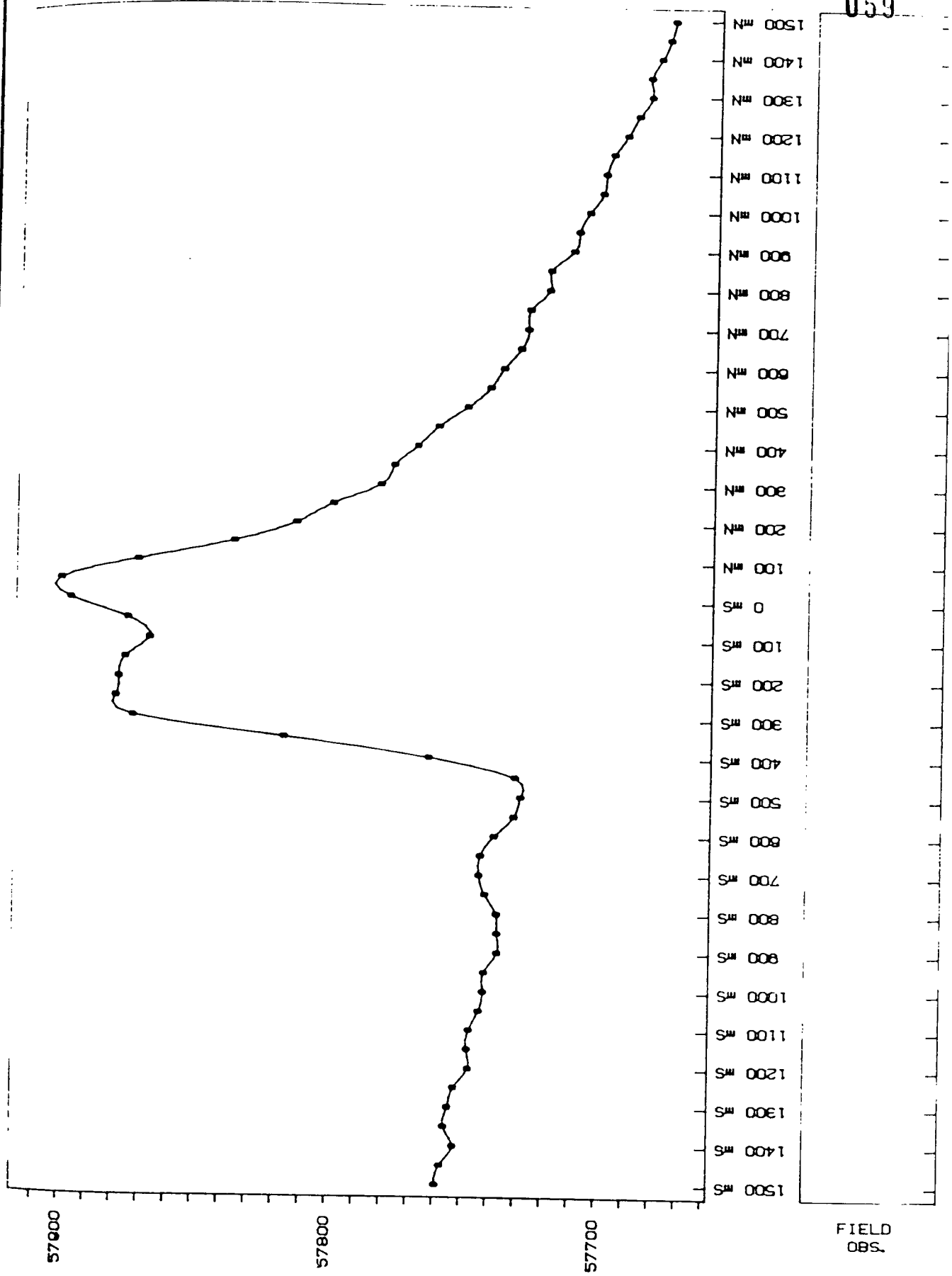


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VERTICAL SCALE	:	20 nT/CM
LINE AZIMUTH	:	N90E
PEAK MAG. READ.	:	57897.5 nT
MAP SHEET	:	H53-9
AMG OF ON/OE	:	2995mE88195mN
LINE & FID. NO.	:	1424.3N/4958
SURVEY DATE	:	25/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E02
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1707	

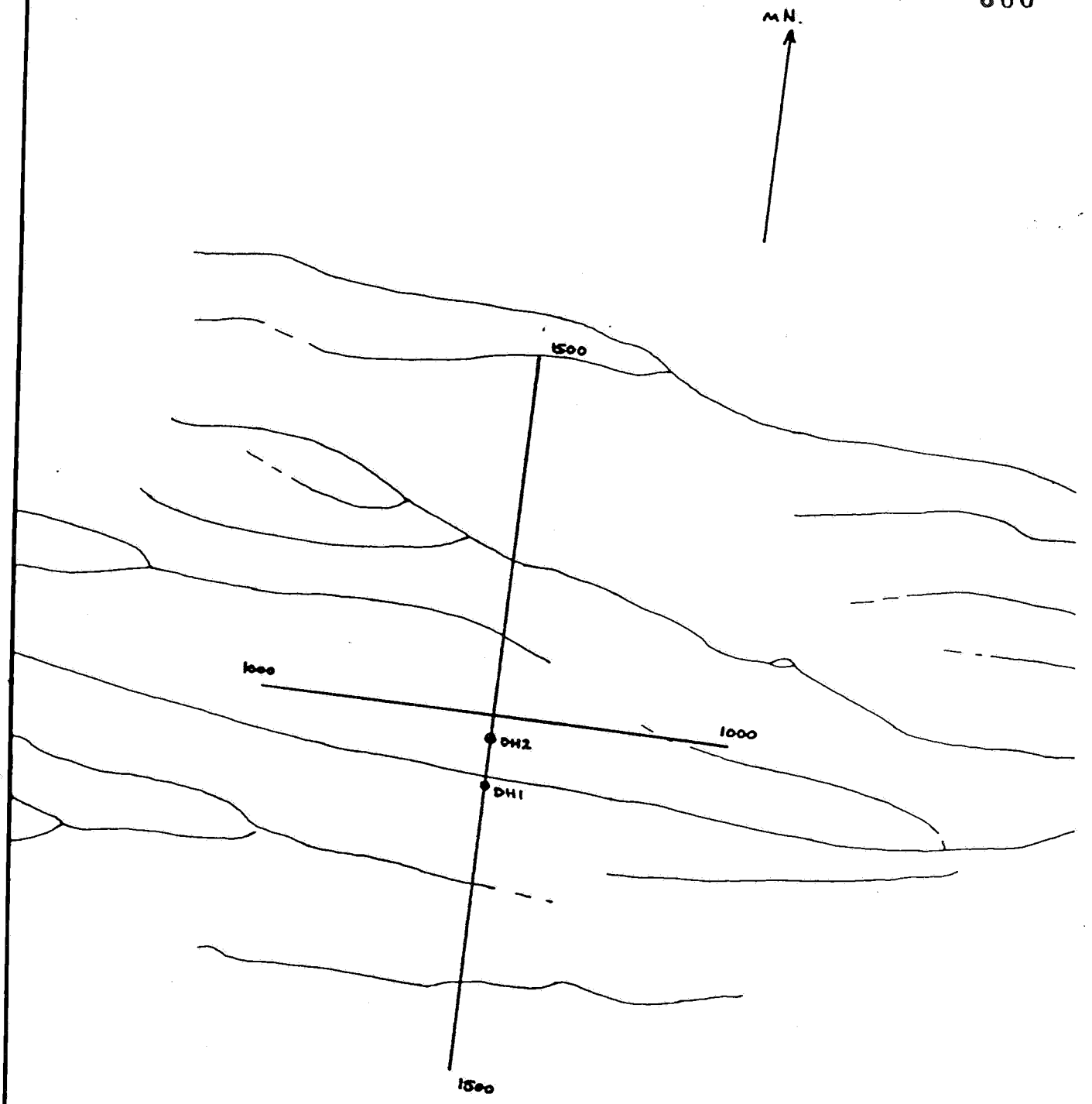


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PEAK MAG. READ. : 57900.6 nT
MAP SHEET : H53-9
AMG OF ON/OG : 2995mE88195mN
LINE & FID. NO. : 1424.3N/4958
SURVEY DATE : 25/08/82

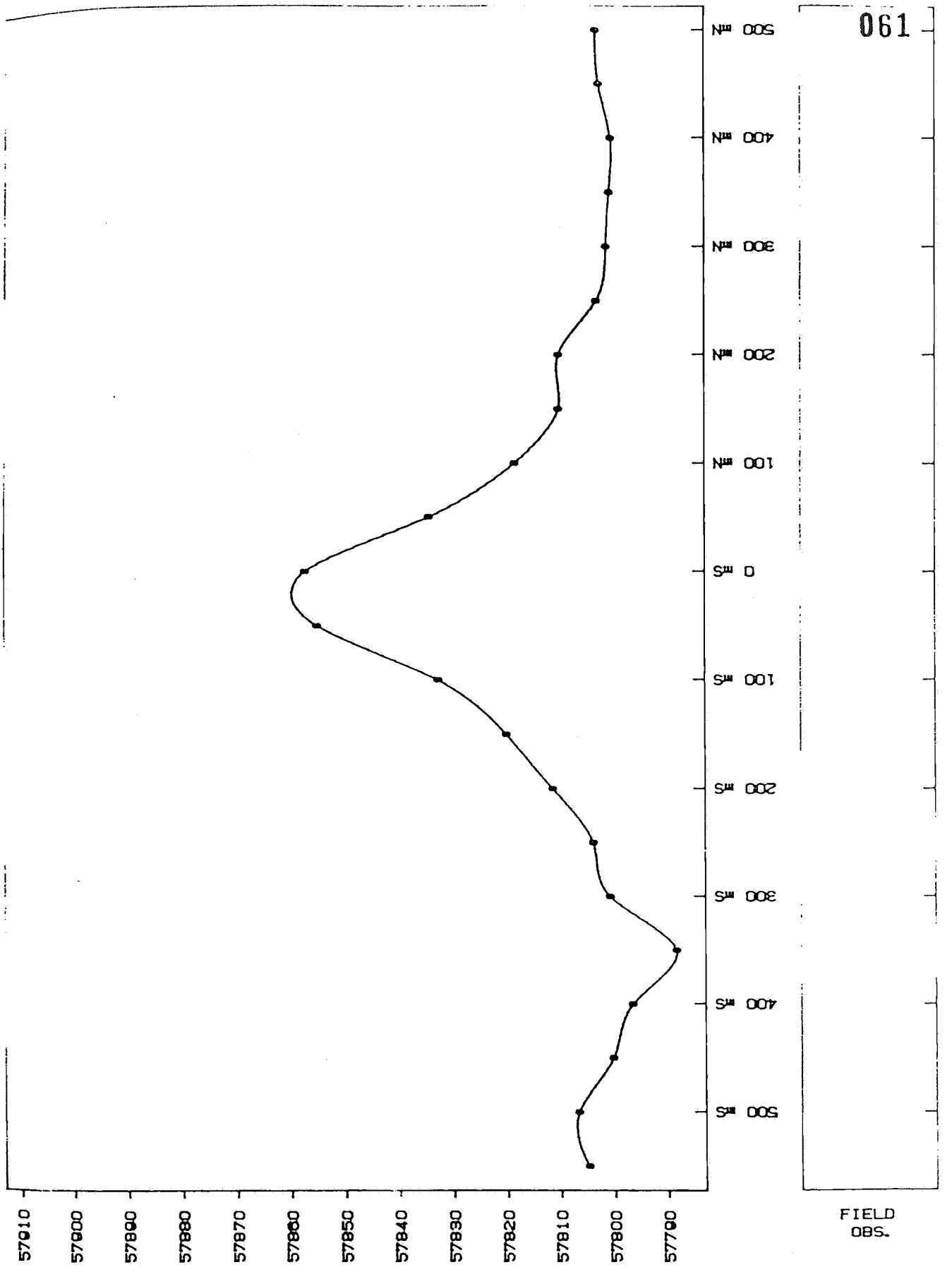
STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E02
LINE 05

Compiled
Drawn
Date
Scale



STOCKDALE PROSPECTING LIMITED				
LOCATION ANOMALY, E436-1 E02. A.M.G. H53-9, 600218. (AIR PHOTO RUN 5/37).				
Compiled TSB	Drawn	Date 7-10-82	Scale 1:25 000.	SEL 1736

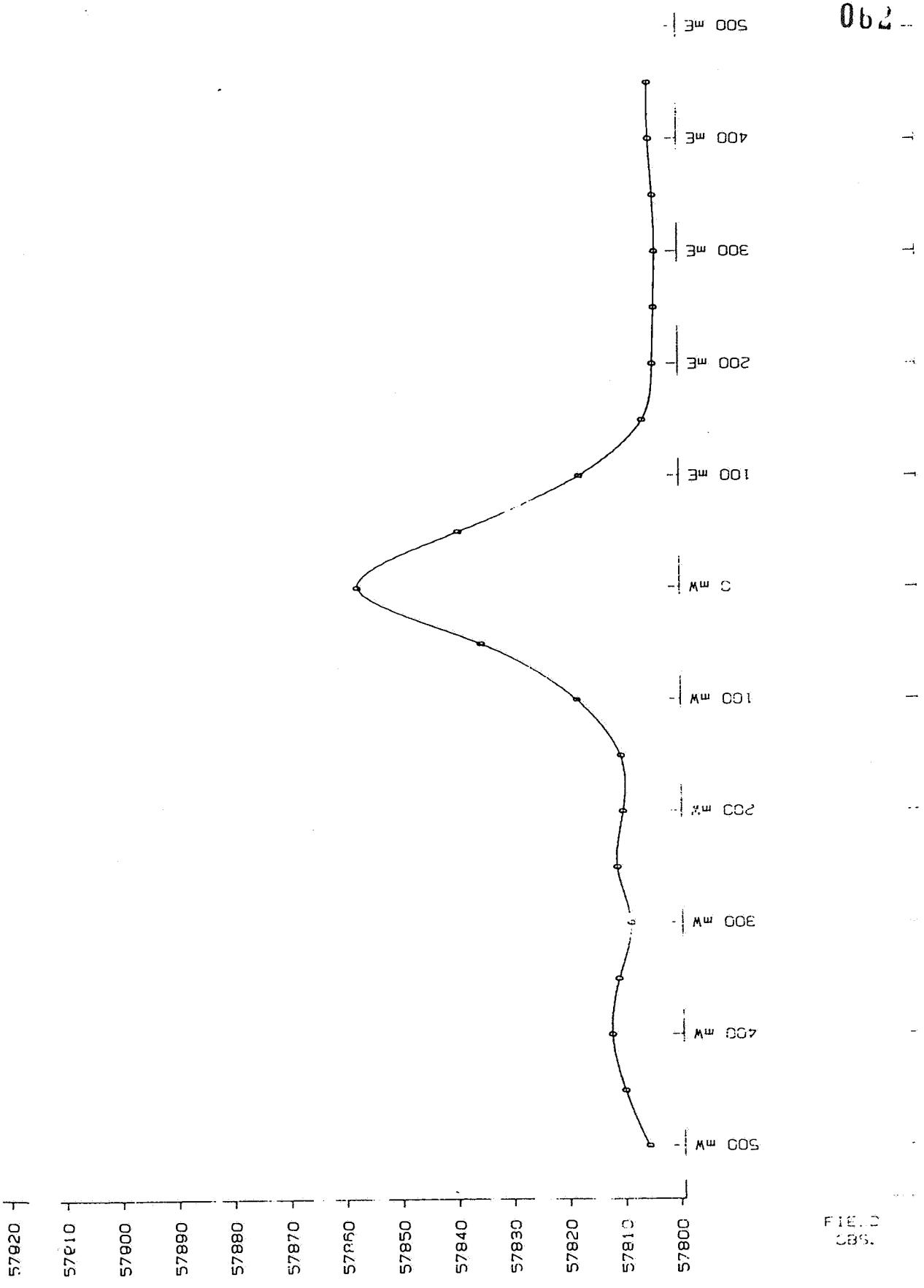


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LINE AZIMUTH : N
PEAK MAG. READ. : 57857.8 nT
MAP SHEET : H53-9
AMG OF ON/OE : 9018mE66168mN
LINE & FID. NO. : 1413.4N 692
SURVEY DATE : 20/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E04
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 170	



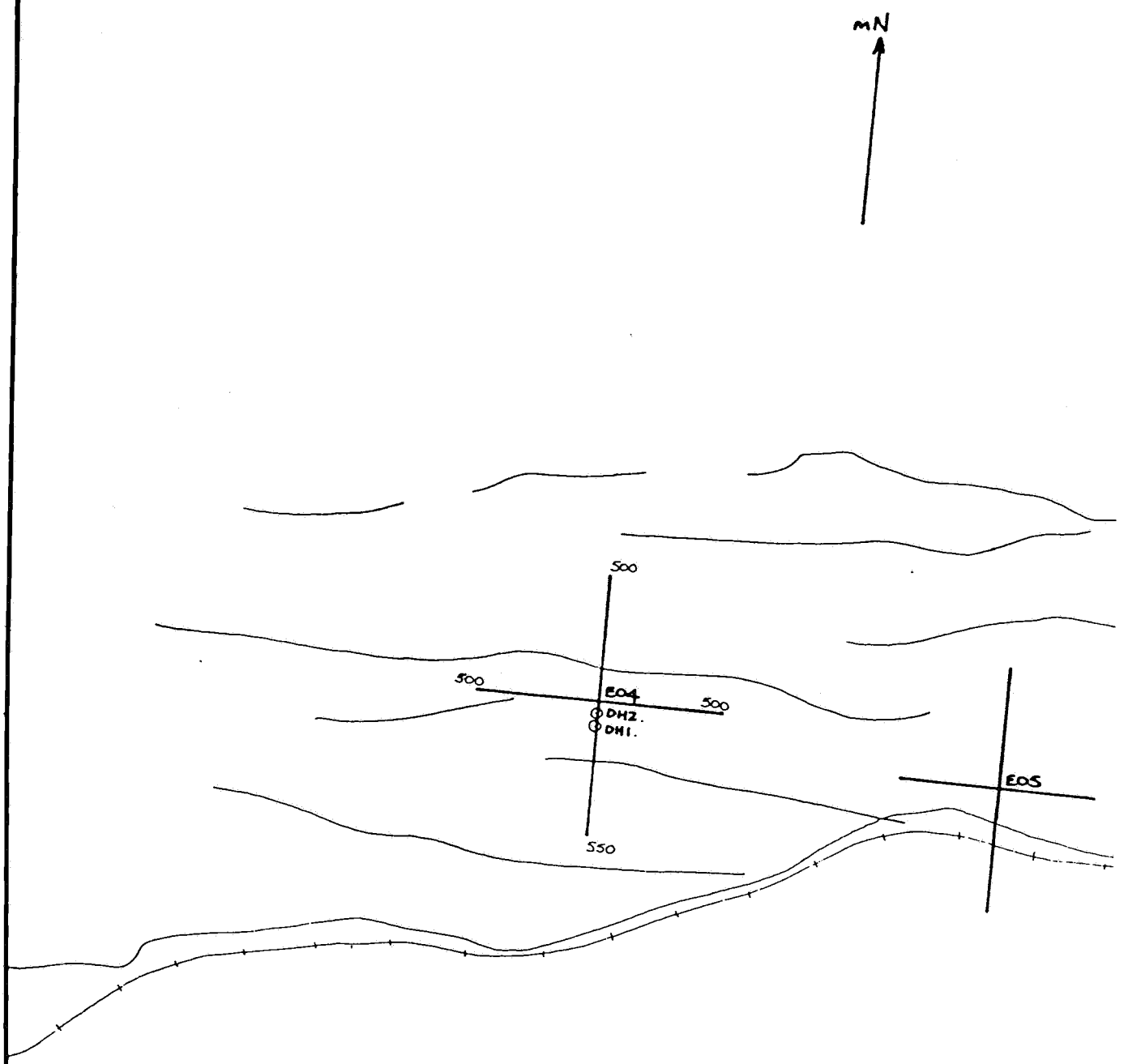
FIELD
286.

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VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : **N 90E**
PEAK MAG. READ. : 57857.8 nT
MAP SHEET : H53-9
AMG OF ON/OE : 3018mE66166...
LINE & FID. NO. : 1413.4N 692
SURVEY DATE : 20/08/82

STOCKDALE PROSPECTING LIMITED

[illegible] PROJECT
BARTON
AEROMAG SURVEY
LINE ON

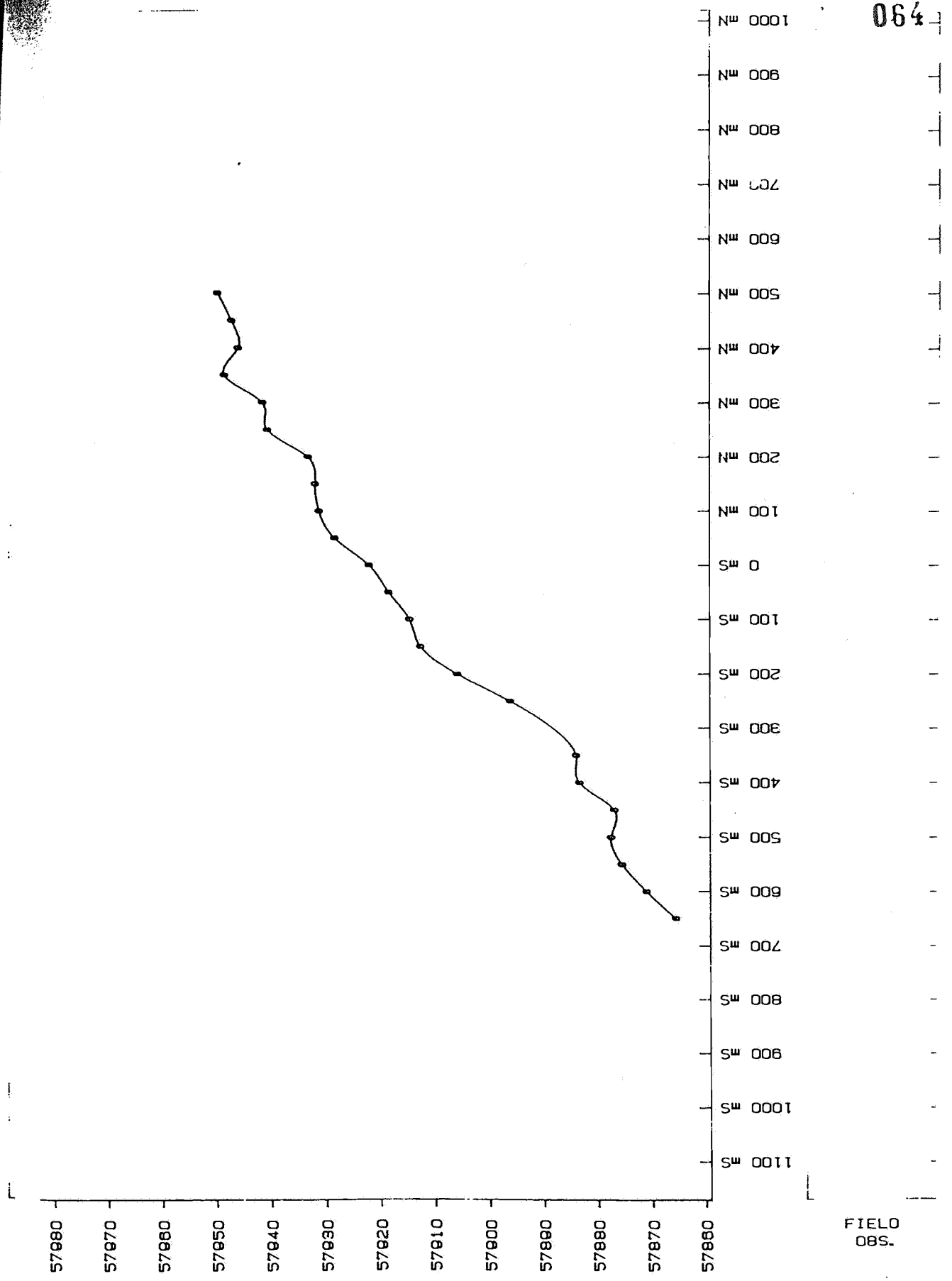
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Drawn	
Date	
Scale	
Revised	
SEL 171(	



STOCKDALE PROSPECTING LIMITED

LOCATION ANOMALY 5436-1, E04.
(AIR PHOTO RUN 5/33).
A.M.G. HS3-9, 603215.

Compiled	Drawn	Date	Scale	
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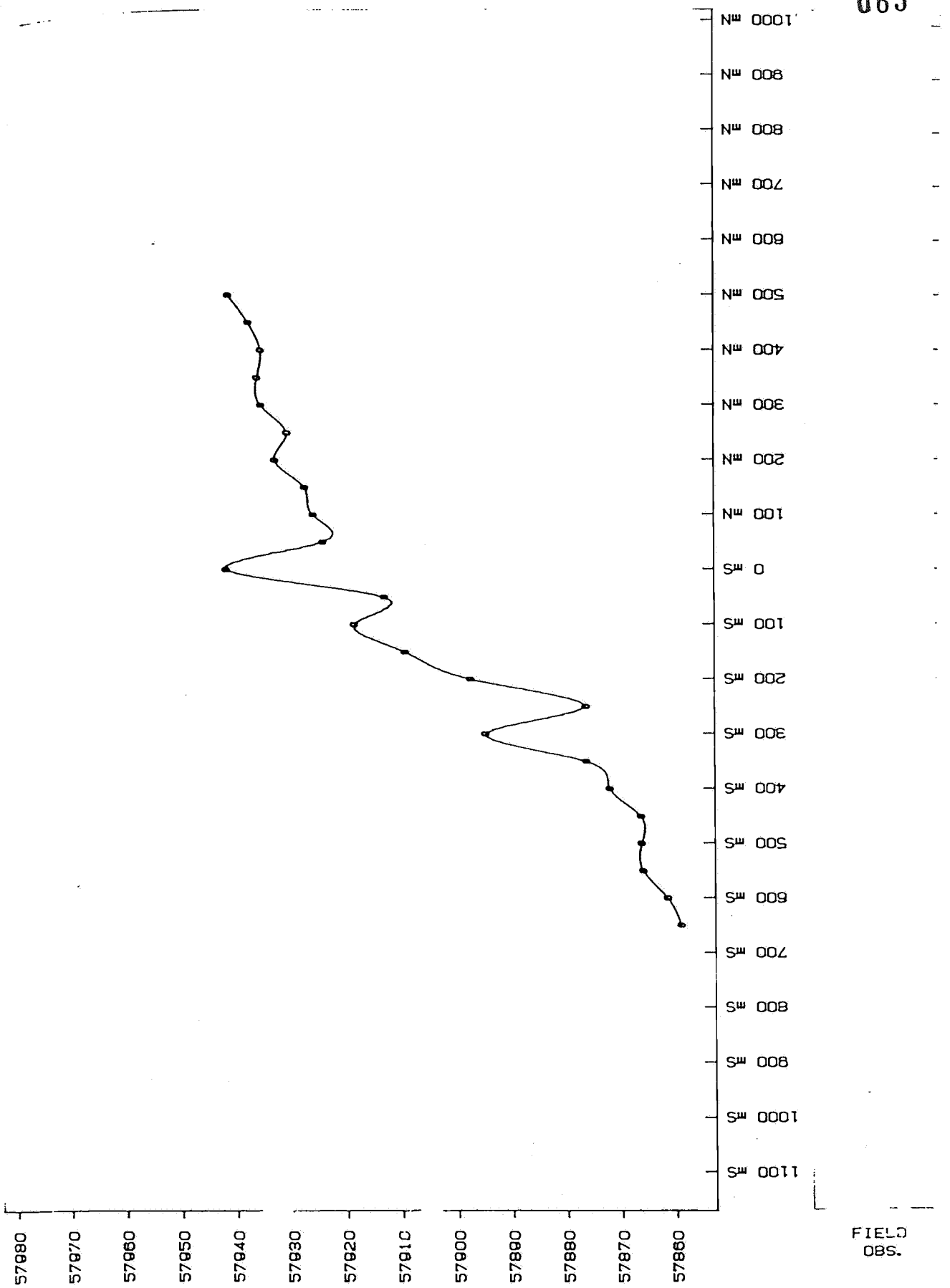
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MAP SHEET	:	HS3-9
AMG OF ON/OE	:	3035mE66164mN
LINE & FID. NO.	:	1408.6/560
SURVEY DATE	:	17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE 400E

Compiled	
Drawn	
Date	
Scale	
Revised	

SEL 171

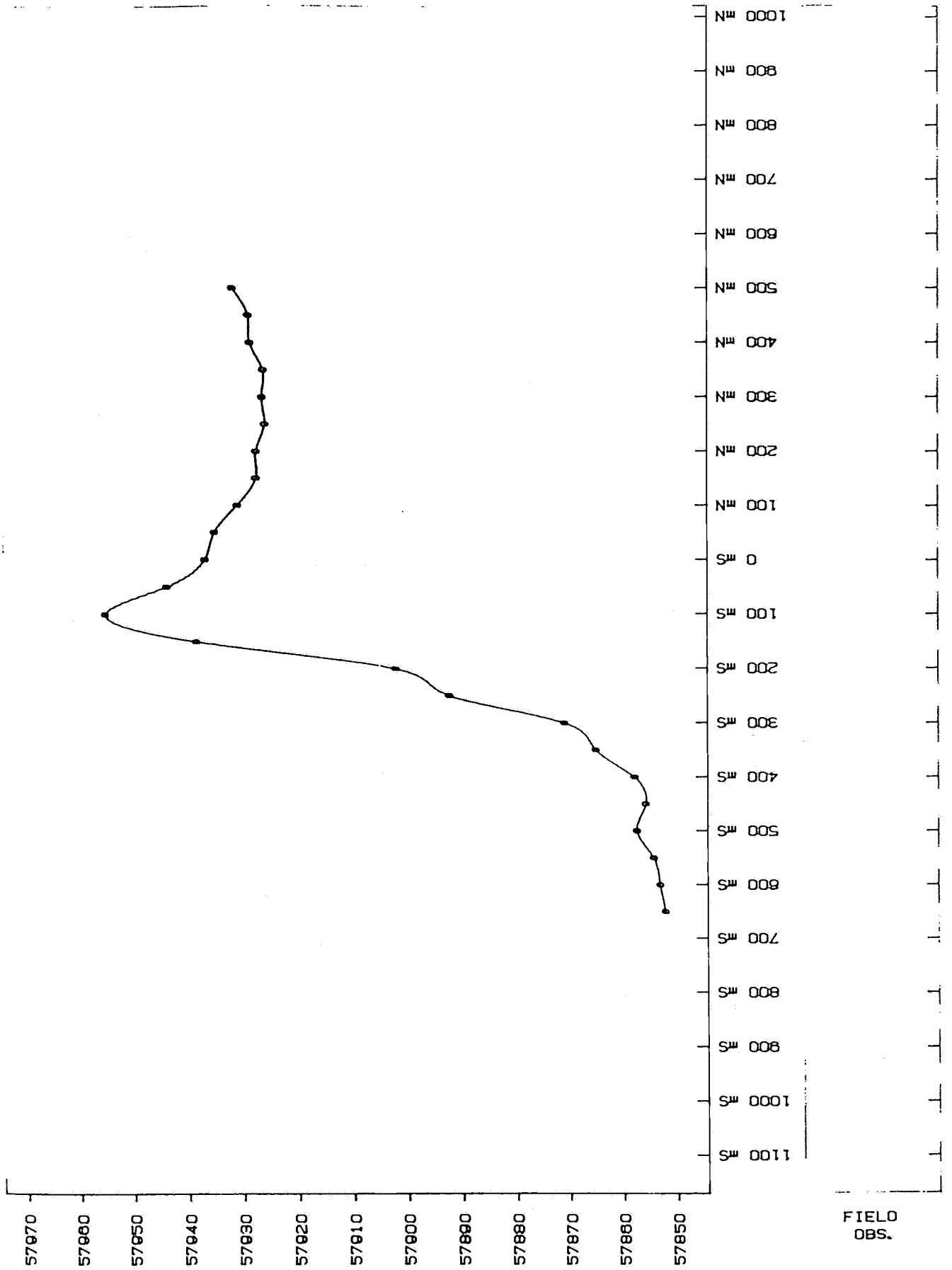


HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : N
PEAK MAG. READ. : 57941.7 nT
MAP SHEET : H53-9
AMG OF ON/OE : 3035mE66164mN
LINE & FID. NO. : 1408.6/560
SURVEY DATE : 17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE 300E

Compiled
Drawn
Date
Scale
Revised

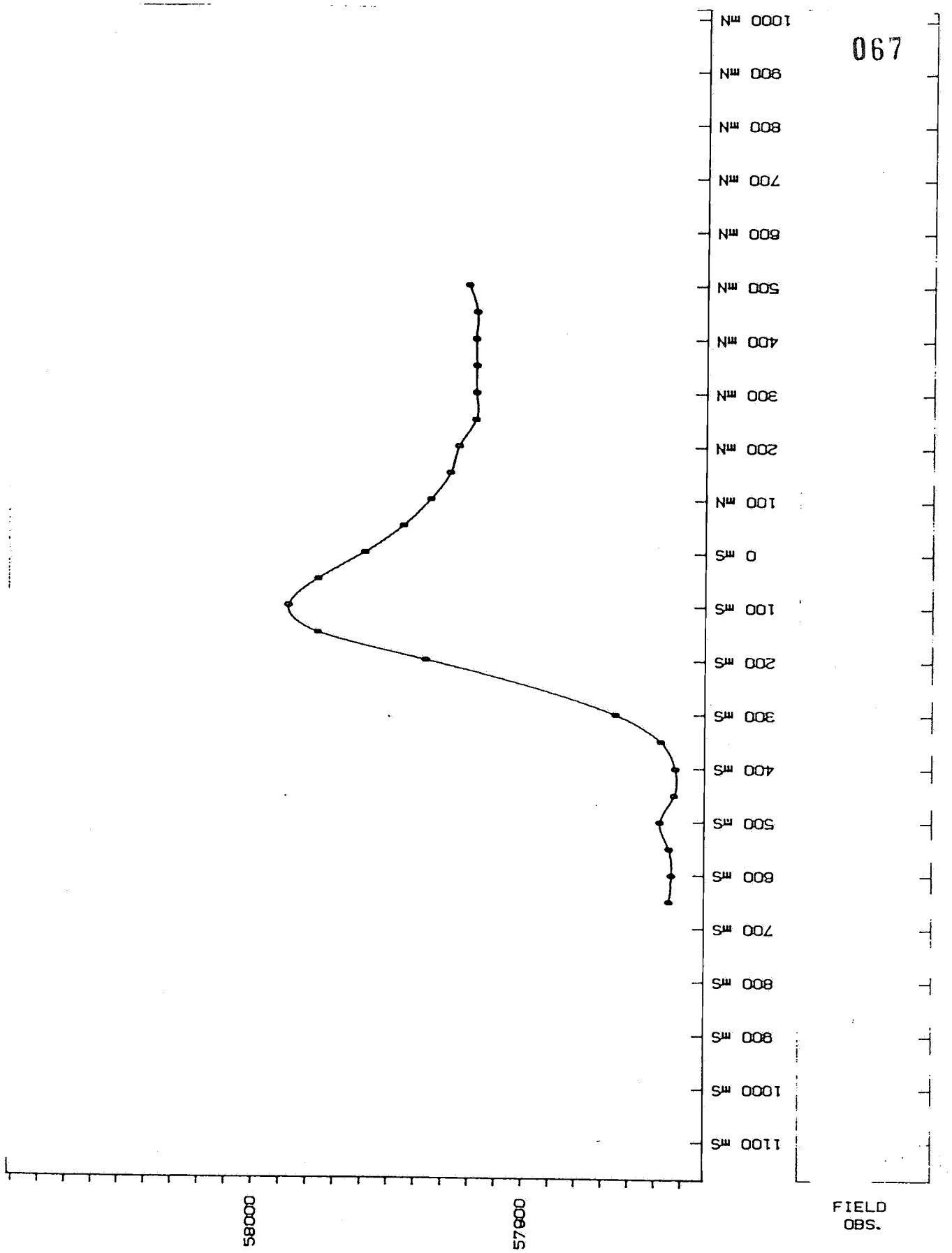


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VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : N
PEAK MAG. READ. : 57055.4 nT
MAP SHEET : H53-9
AMG OF ON/OE : 8035mE66164mN
LINE & FID. NO. : 1408.8/560
SURVEY DATE : 17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE 200E

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1713	

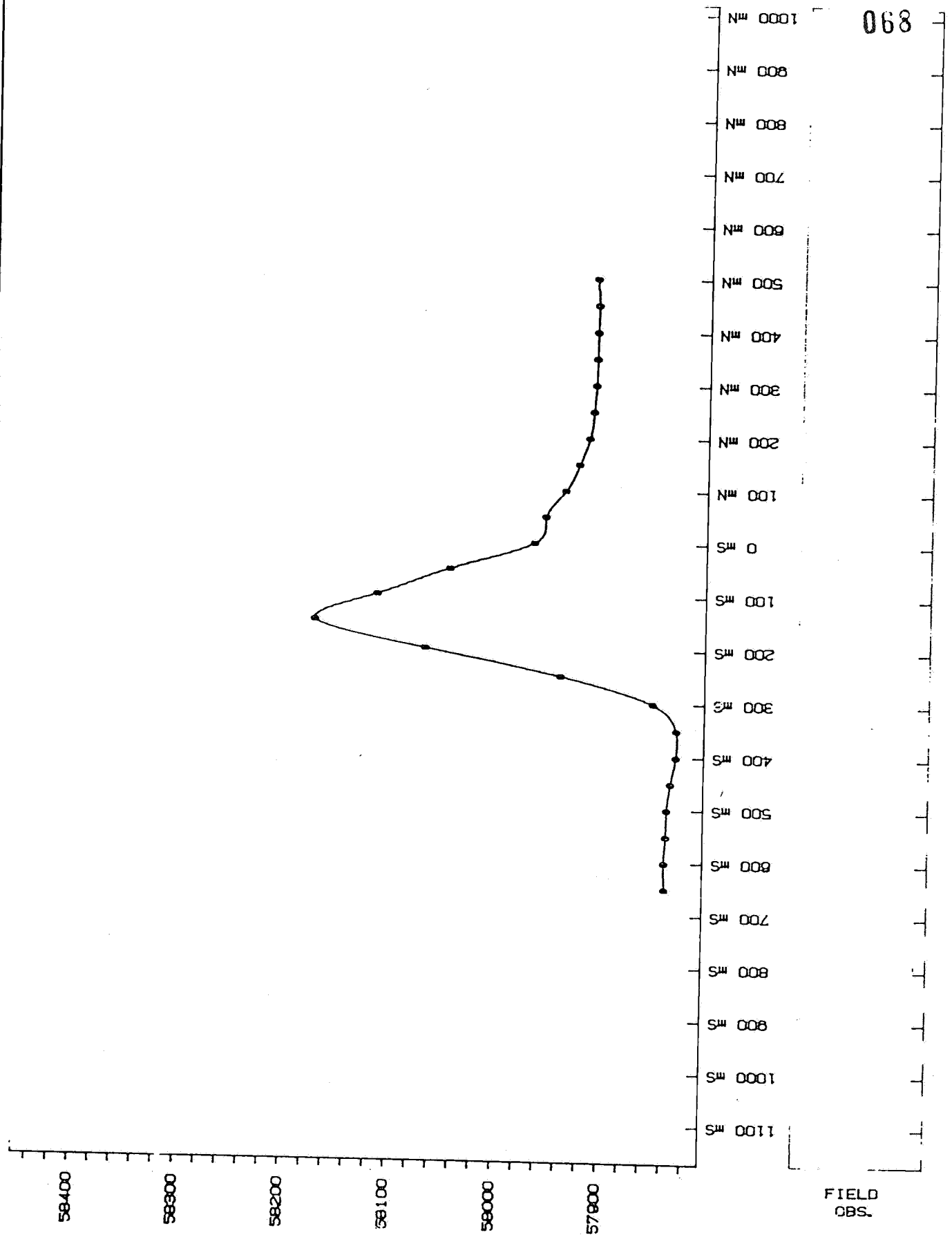


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MAP SHEET : H53-9
AMG CF ON/OE : 3035mE68164mN
LINE & FID. NO. : 1308.6/560
SURVEY DATE : 17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE 100E

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1714	

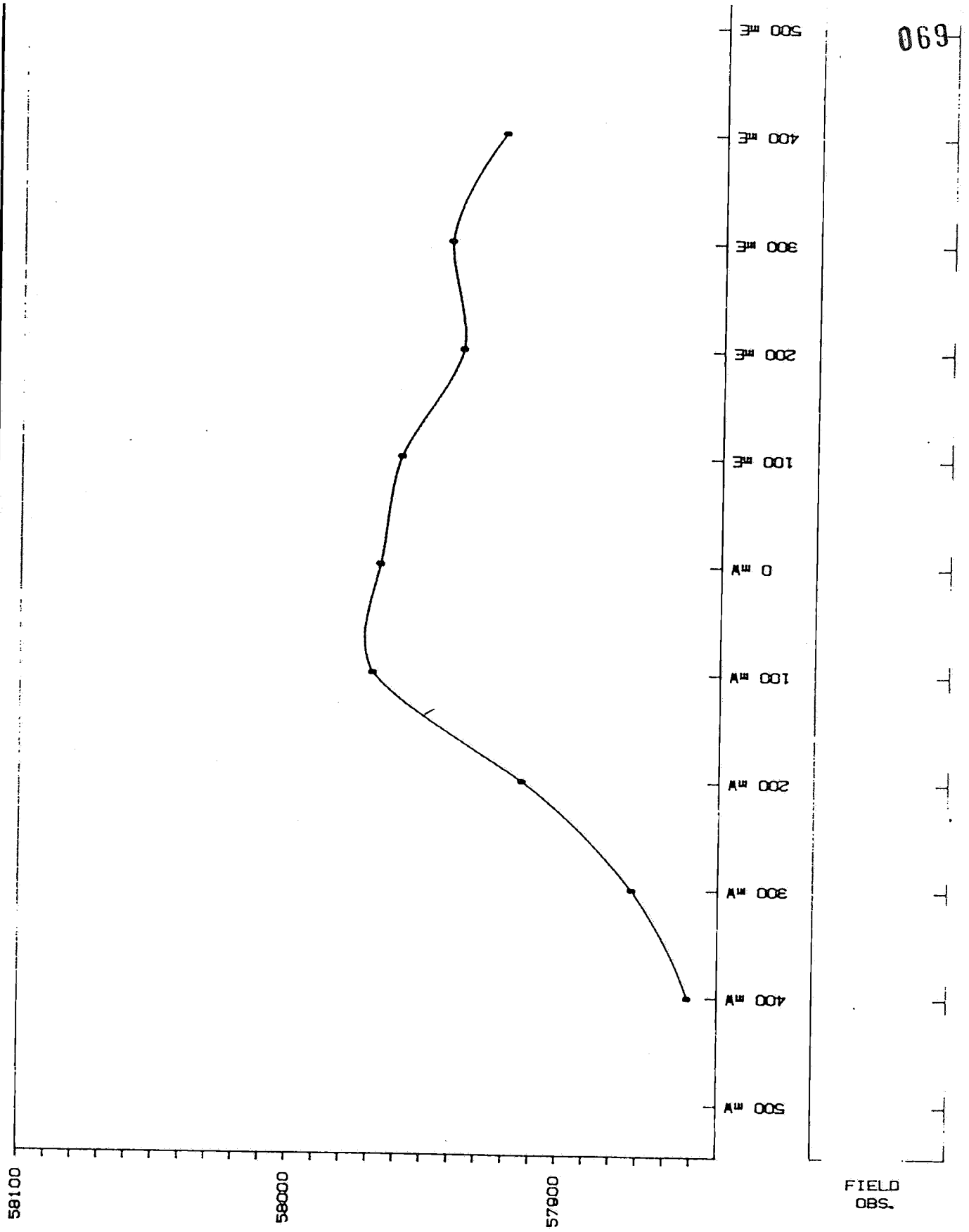


HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 50 nT/CM
LINE AZIMUTH : N
PEAK MAG. READ. : 58172.8 nT
MAP SHEET : H53-9
AMG OF ON/OE : 3035mE66164mN
LINE & FID. NO. : 1408.6/560
SURVEY DATE : 17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1715	

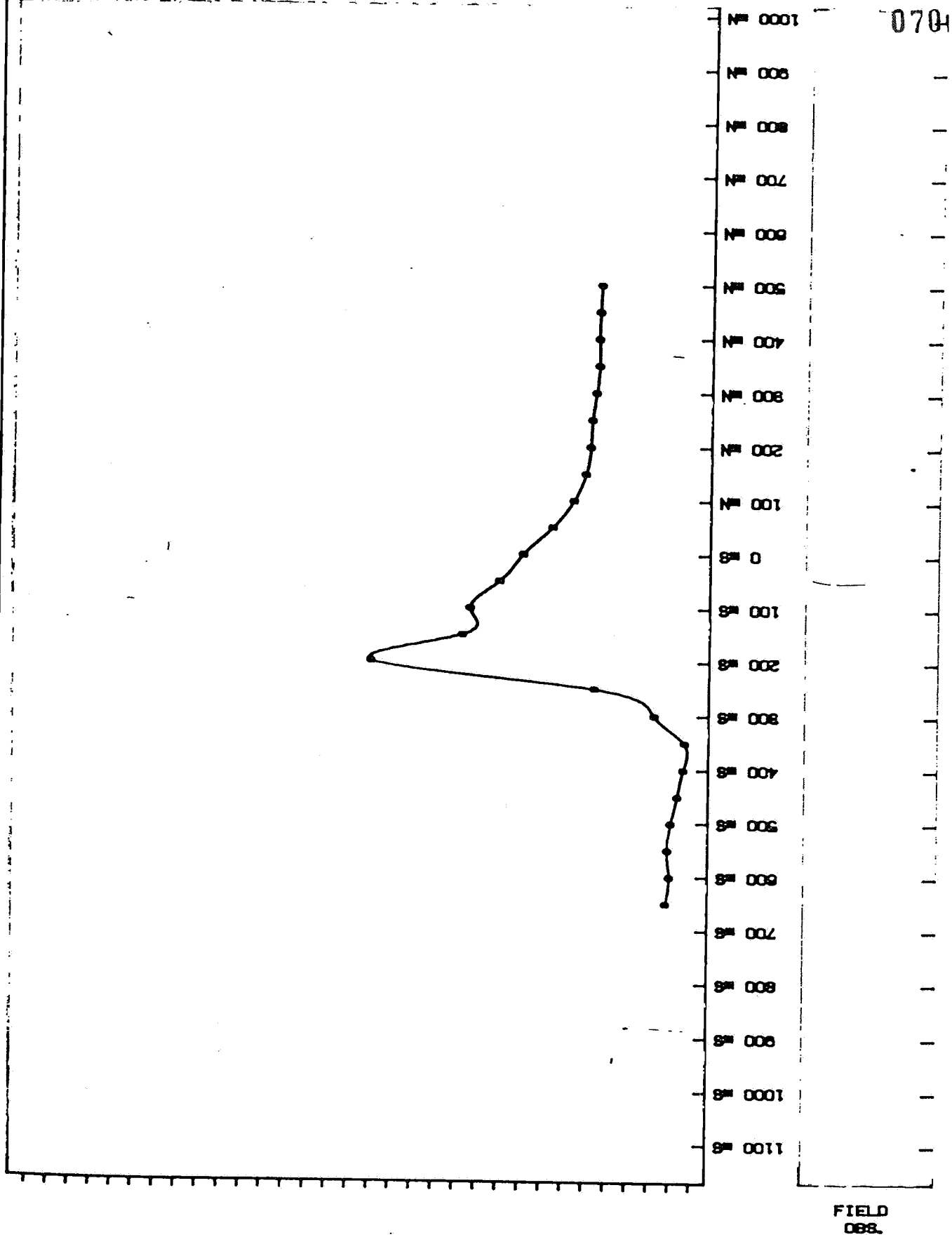


HORIZ. SCALE	:	1: 5000
VERTICAL SCALE	:	20 nT/CM
LINE AZIMUTH	:	N 90 E
PEAK MAG. READ.	:	57993.1 nT
MAP SHEET	:	H53-9
AMG OF ON/OE	:	3035mE66164mN
LINE & FID. NO.	:	1408.6/580
SURVEY DATE	:	17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1716	



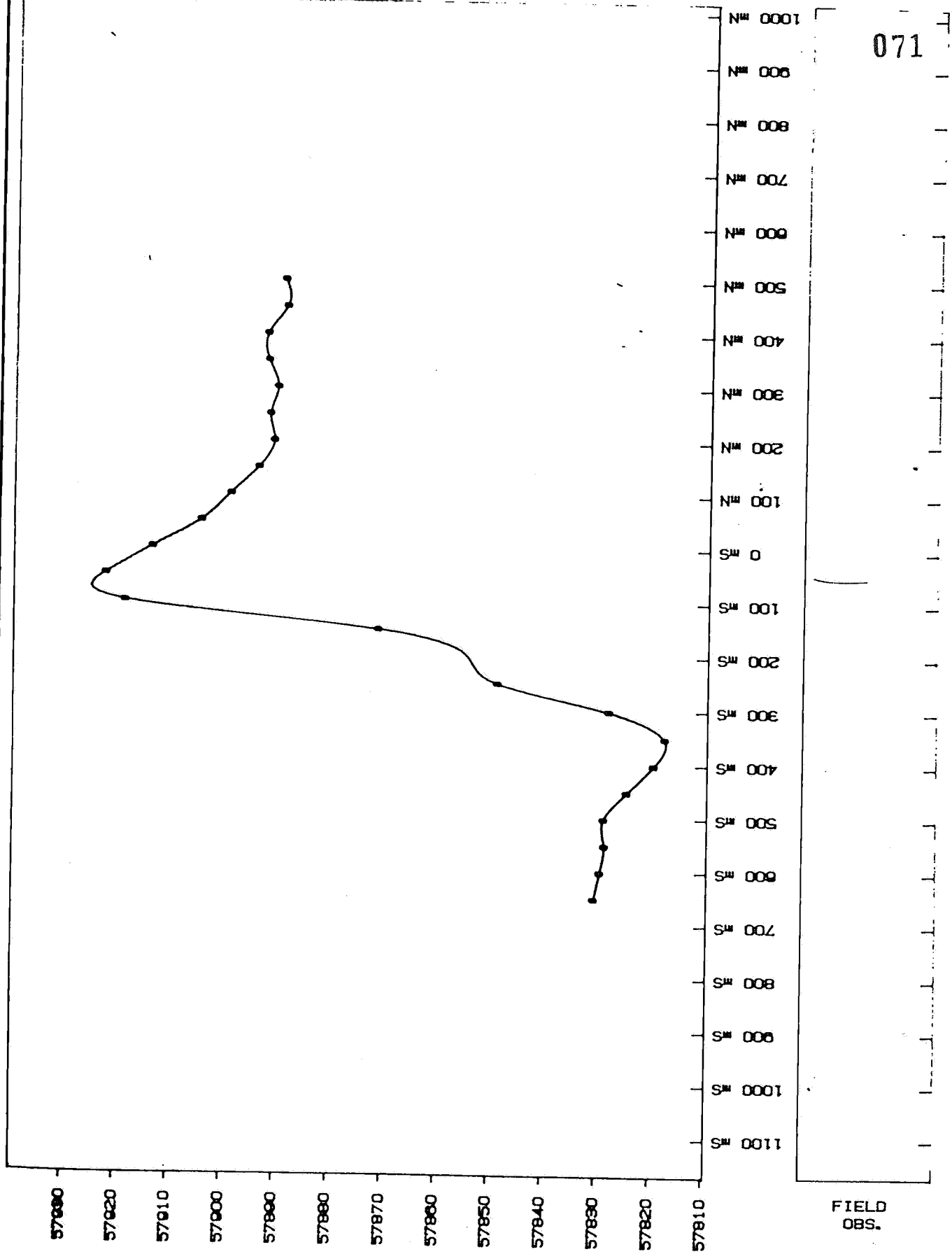
HORIZ. SCALE	:	1: 10000
VERTICAL SCALE	:	50 nT/CM
LINE AZIMUTH	:	N
PEAK MAG. READ.	:	59109.8 nT
MAP SHEET	:	H59-9
AMG OF ON/OE	:	9085mE86164mN
LINE & FID. NO.	:	1408.6/560
SURVEY DATE	:	17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE 100W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1717	

071

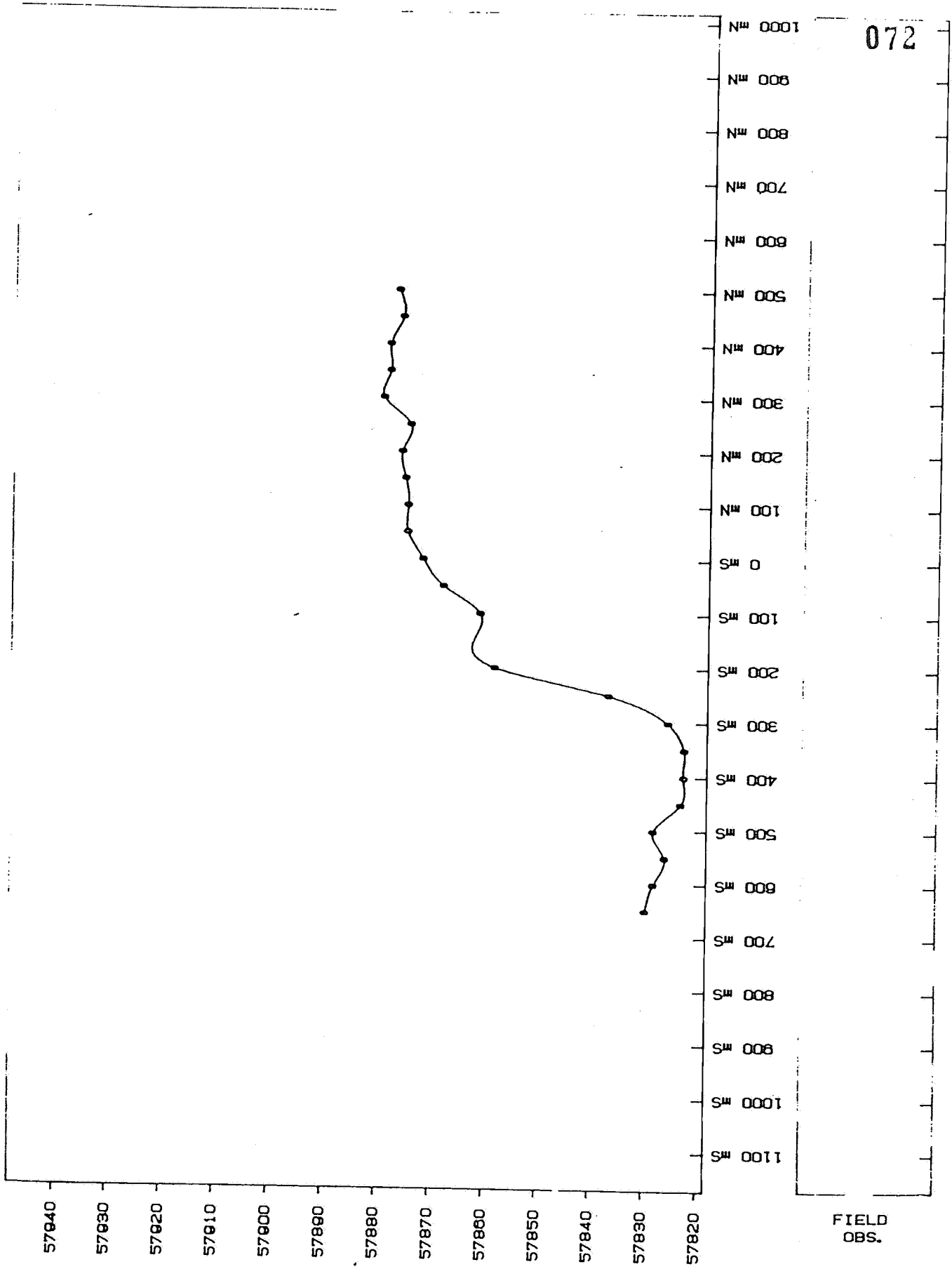


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LINE AZIMUTH : N
PEAK MAG. READ. : 57922.4 nT
MAP SHEET : H53-8
AMG OF ON/OE : 3035mE88184mN
LINE & FID. NO. : 1408.8/580
SURVEY DATE : 17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE 200W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1718	

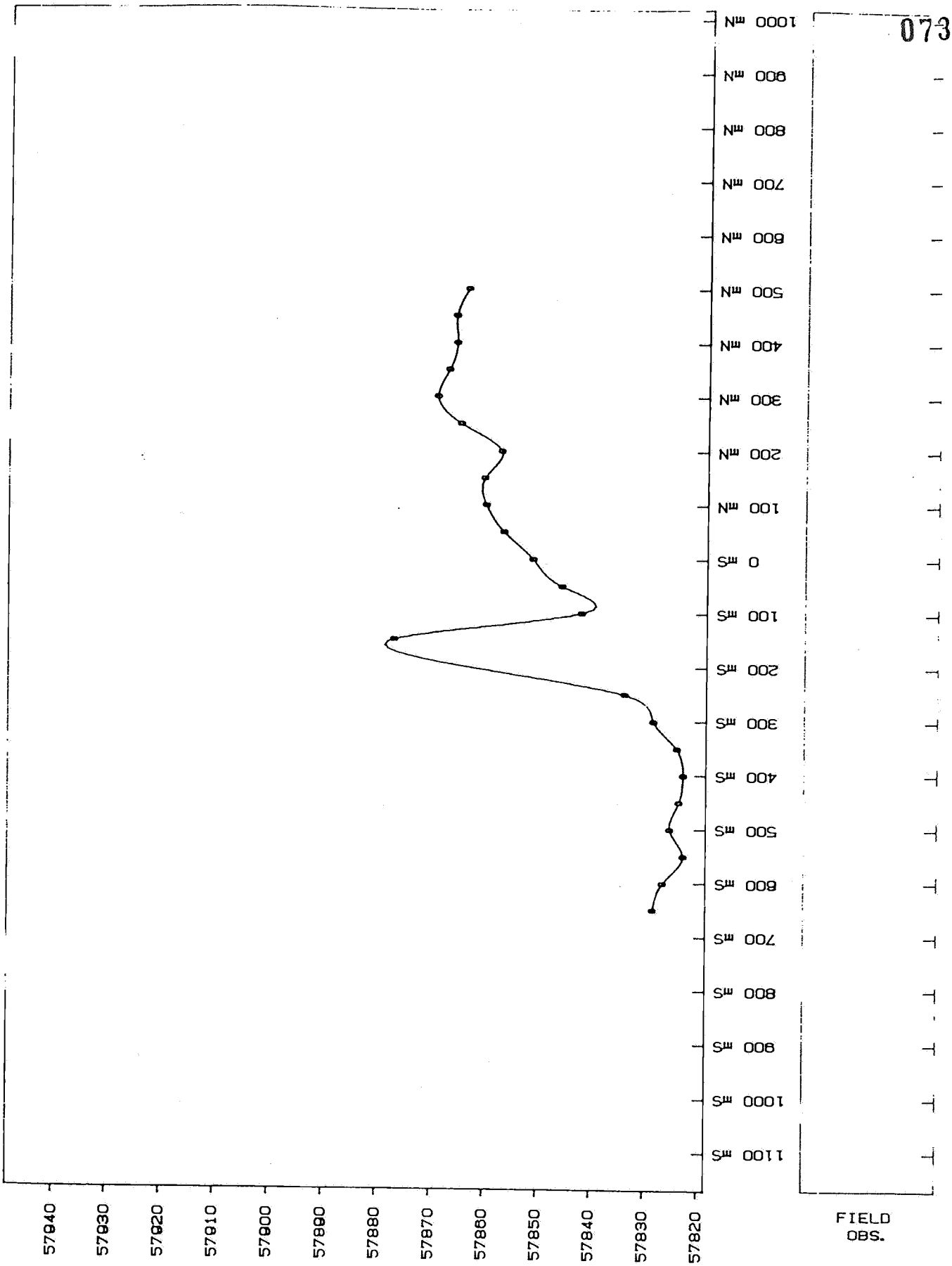


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VERTICAL SCALE	:	10 nT/CM
LINE AZIMUTH	:	N
PEAK MAG. READ.	:	57879.8 nT
MAP SHEET	:	H53-9
AMG OF ON/OE	:	3035mE66164mN
LINE & FID. NO.	:	1408.6/560
SURVEY DATE	:	17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE 300W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1719	

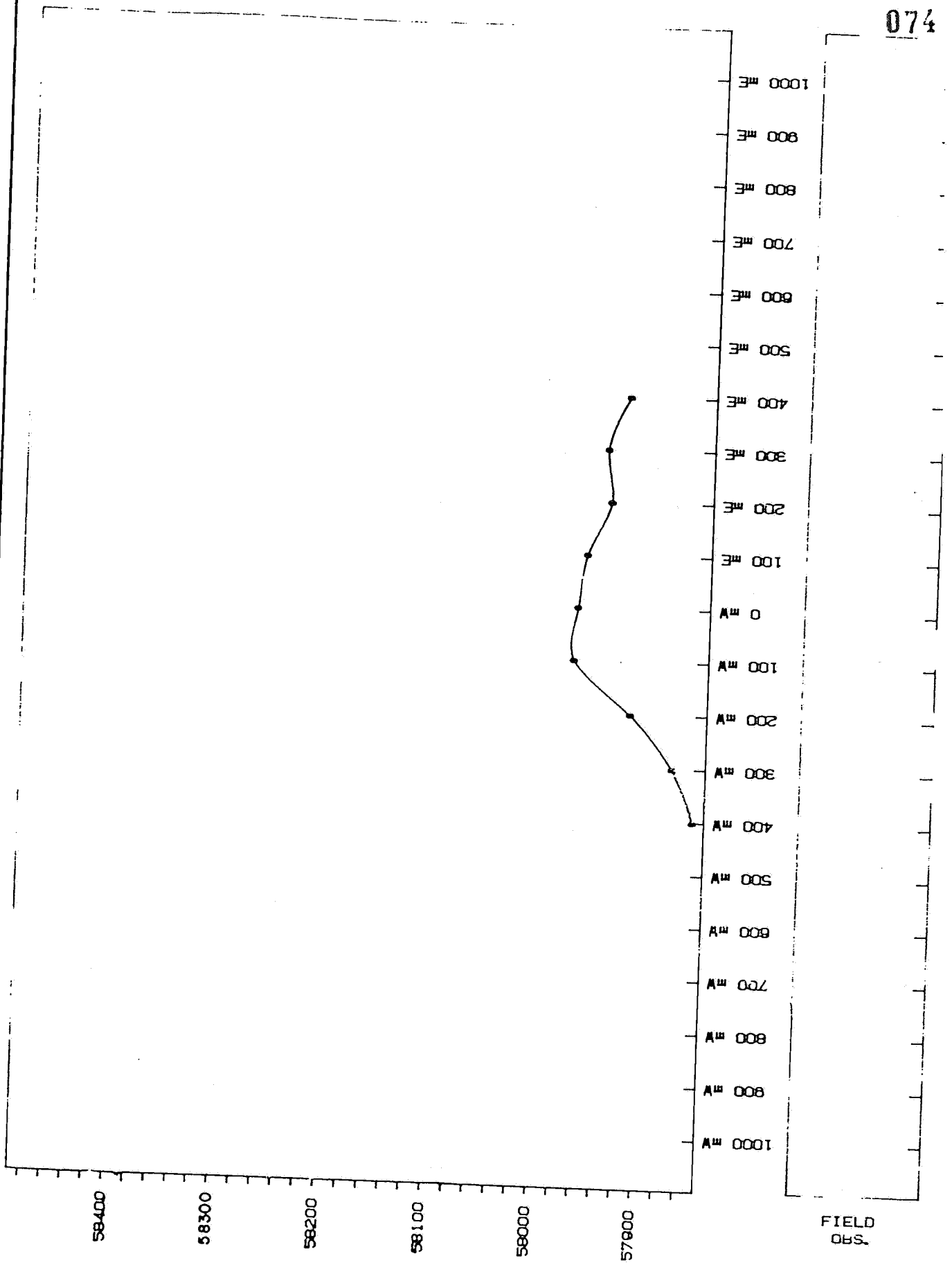


HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : N
PEAK MAG. READ. : 57877.1 nT
MAP SHEET : H53-9
AMG OF ON/OE : 3035mE66164mN
LINE & FID. NO. : 1408.6/560
SURVEY DATE : 17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE 400W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1720	

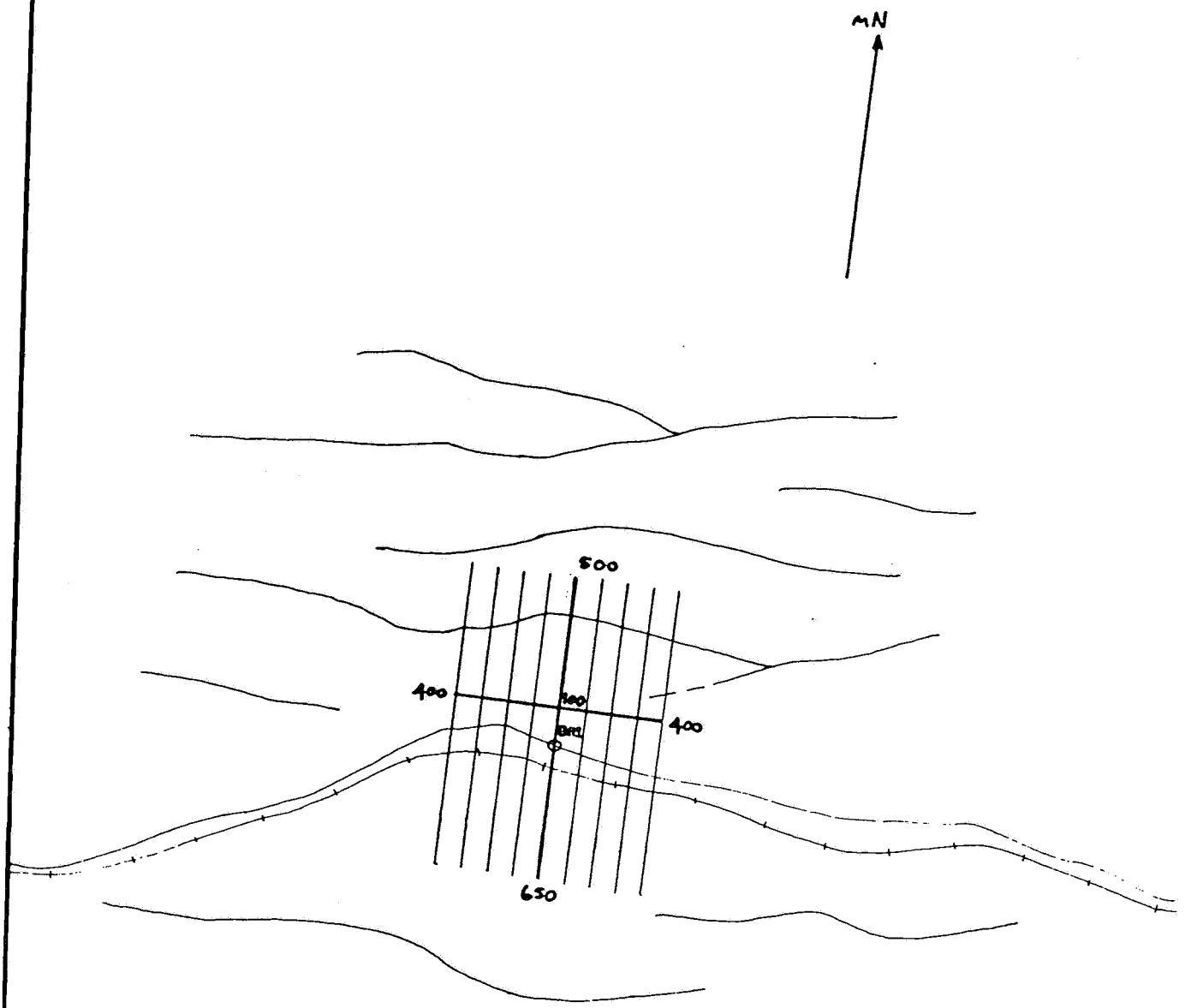


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VERTICAL SCALE : 50 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 57993.1 nT
MAP SHEET : H53-9
AMG OF ON/OE : 3035mE66164mN
LINE & FID. NO. : 1408.6/560
SURVEY DATE : 17/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E05
LINE ON

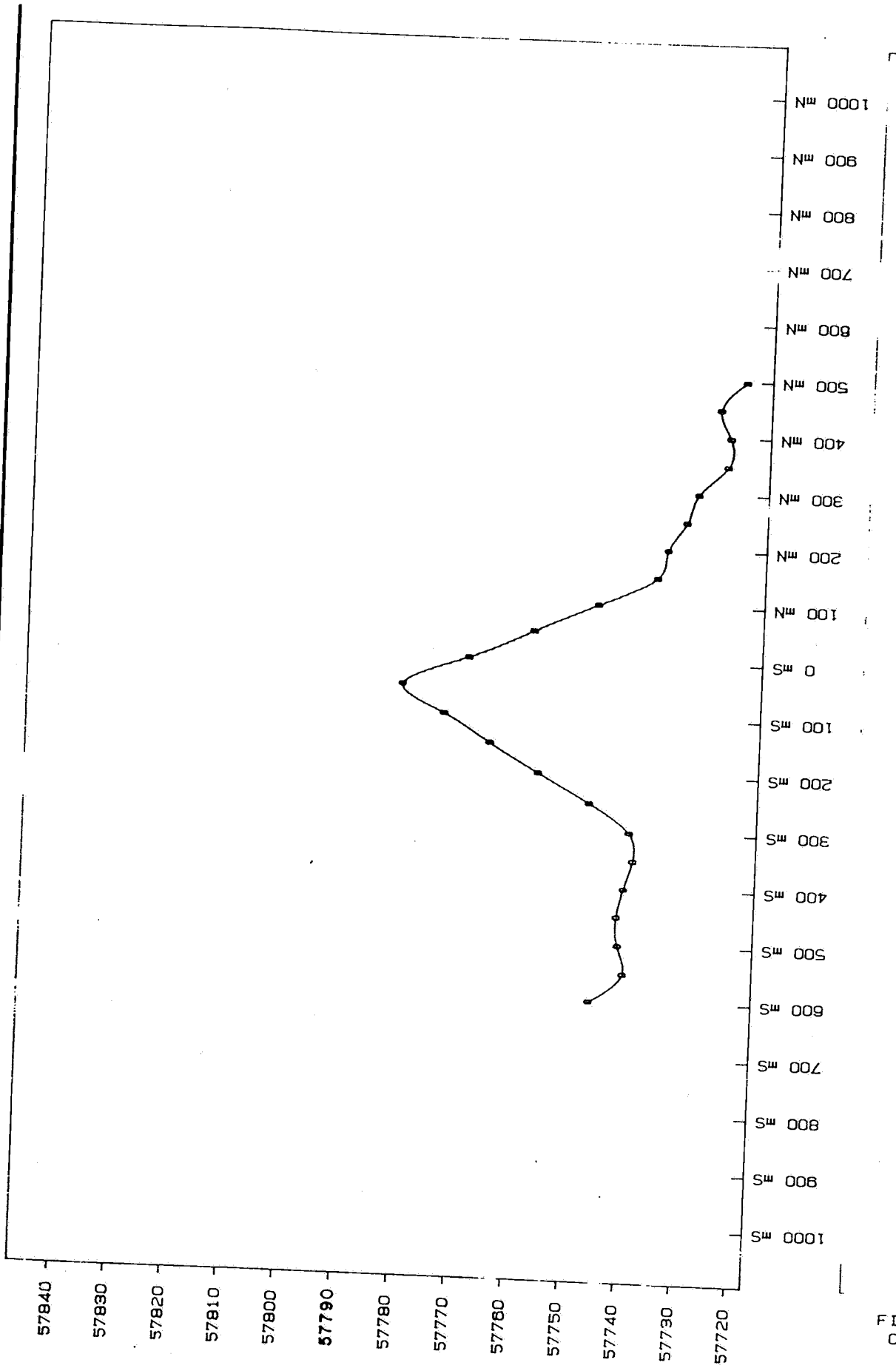
Compiled	
Drawn	
Date	
Scale	
Revised	



STOCKDALE PROSPECTING LIMITED

LOCATION ANOMALY 5436-1, E05.
(AIR PHOTO RUN 5/33).
A.M.G. HS3-9, 604214.

Compiled	Drawn	Date	Scale	
TSB		28-9-82	1:25,000	SEL 1738



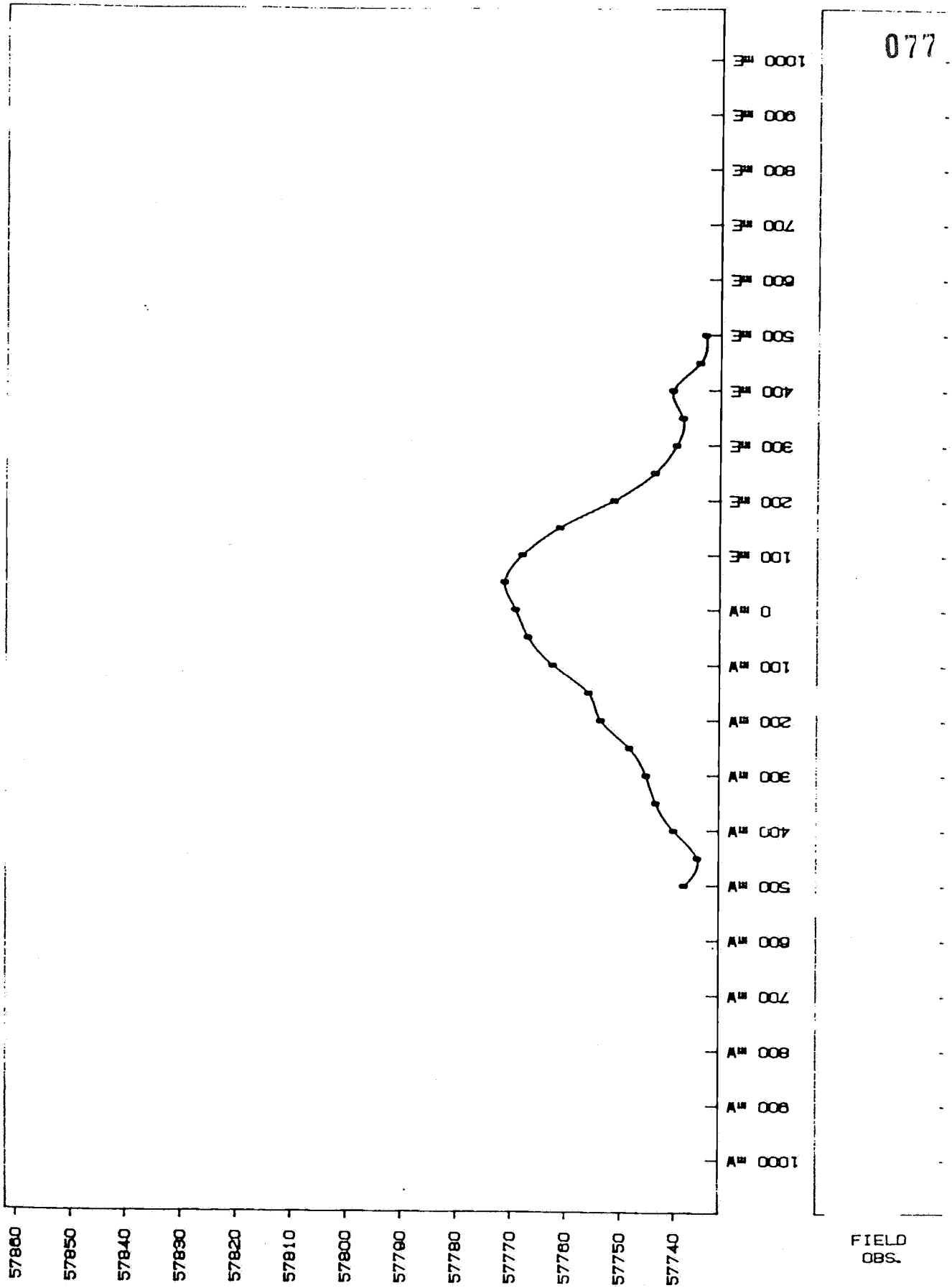
FIELD
08S.

HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : N
PEAK MAG. READ. : 57780.8 nT
MAP SHEET : HS3-9
AMG OF ON/OE : 2963mE66197mN
LINE & FID. NO. : 1435.1N/4350
SURVEY DATE : 05/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E19
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 172	

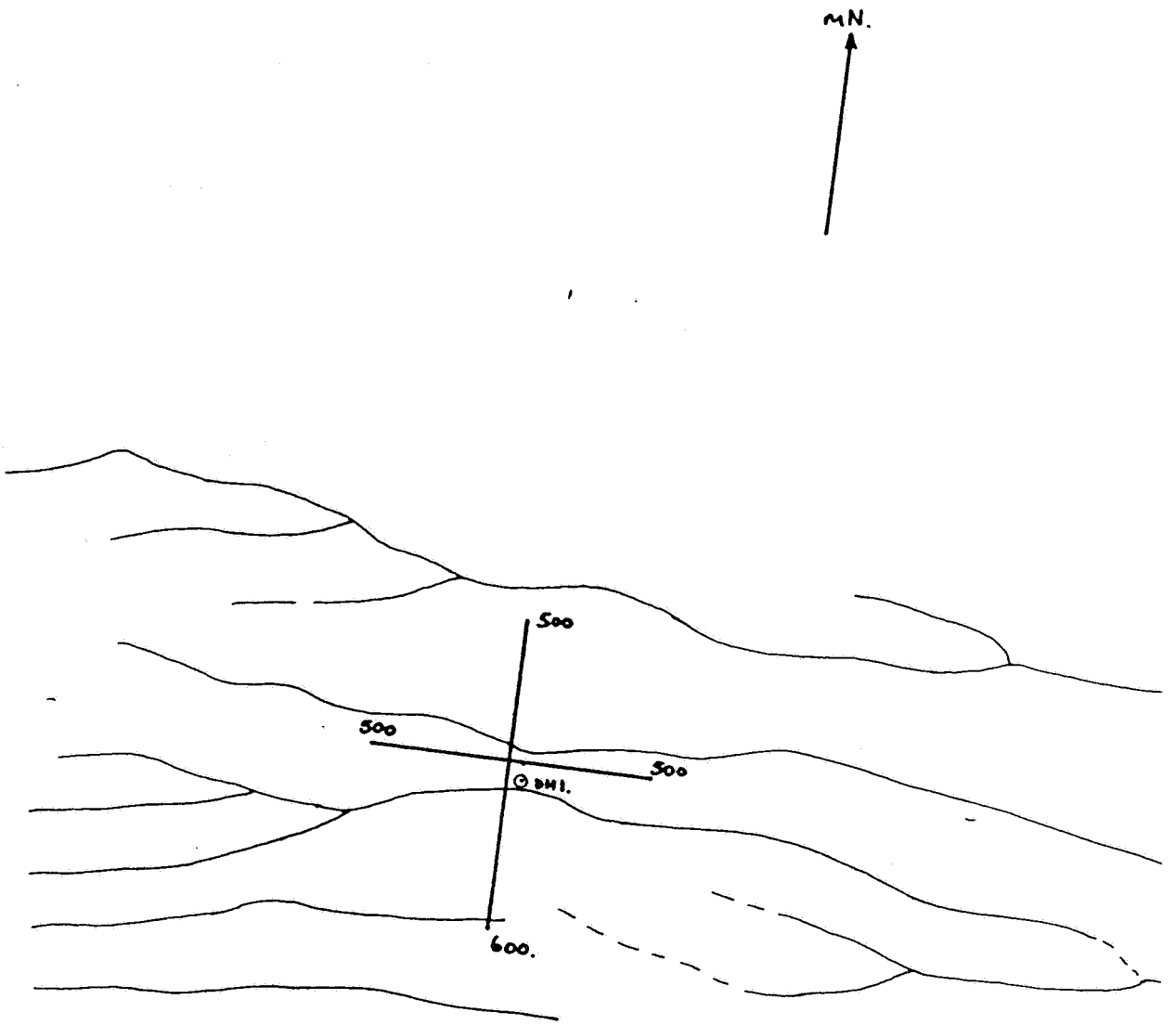


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VERTICAL SCALE	10 nT/CM
LINE AZIMUTH	N90E
PEAK MAG. READ.	57771.3 nT
MAP SHEET	H53-9
AMG OF ON/OE	2963mE86197mN
LINE & FID. NO.	1495.1N/4350
SURVEY DATE	05/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E19
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 17 2	



STOCKDALE PROSPECTING LIMITED

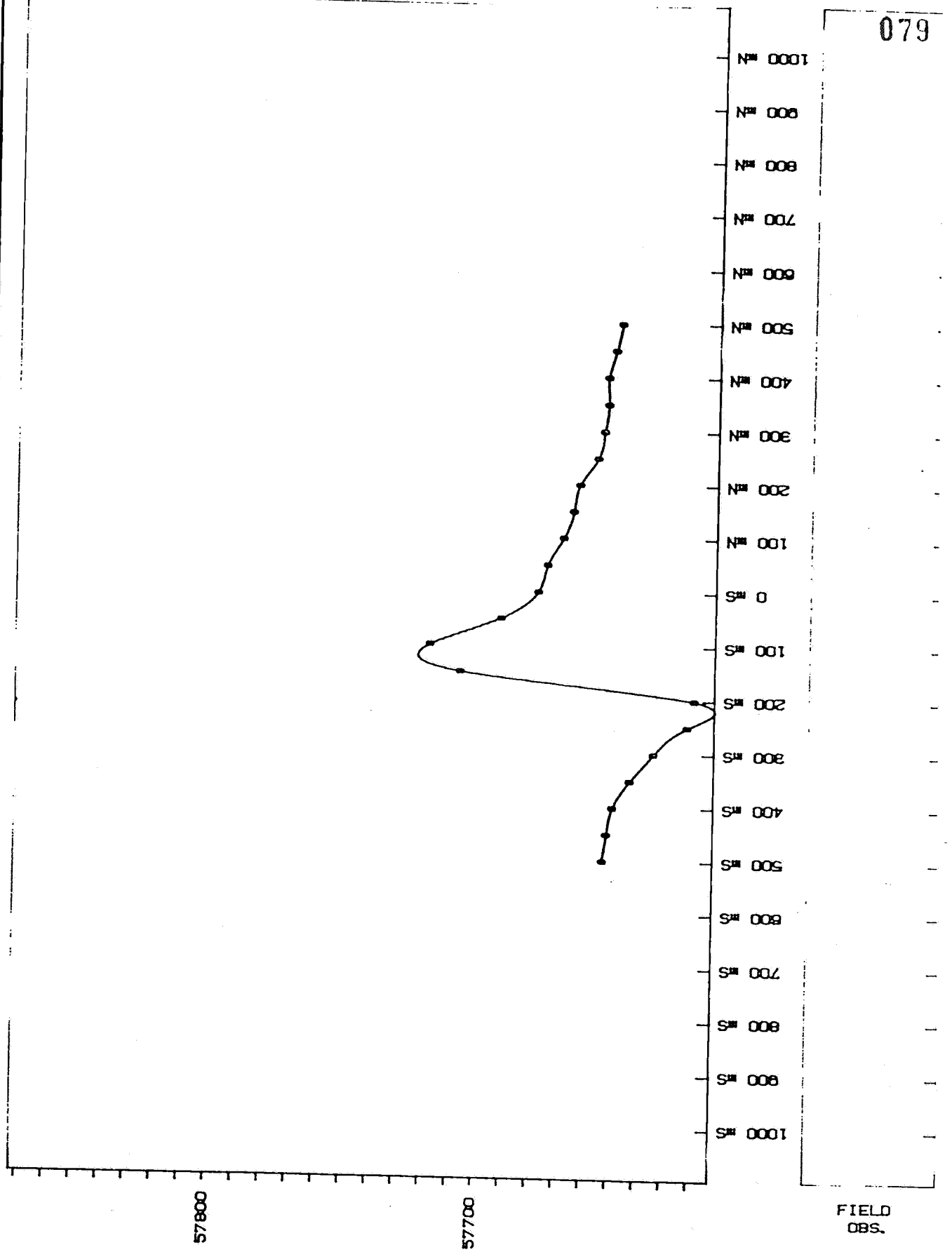
LOCATION ANOMALY 5436-1, E19.

A.M.G. 453-9, 597218.

(AIR PHOTO RUN 5/37).

Compiled	Drawn	Date	Scale	SEL 173
TSB		7-10-82	1:25000.	

079

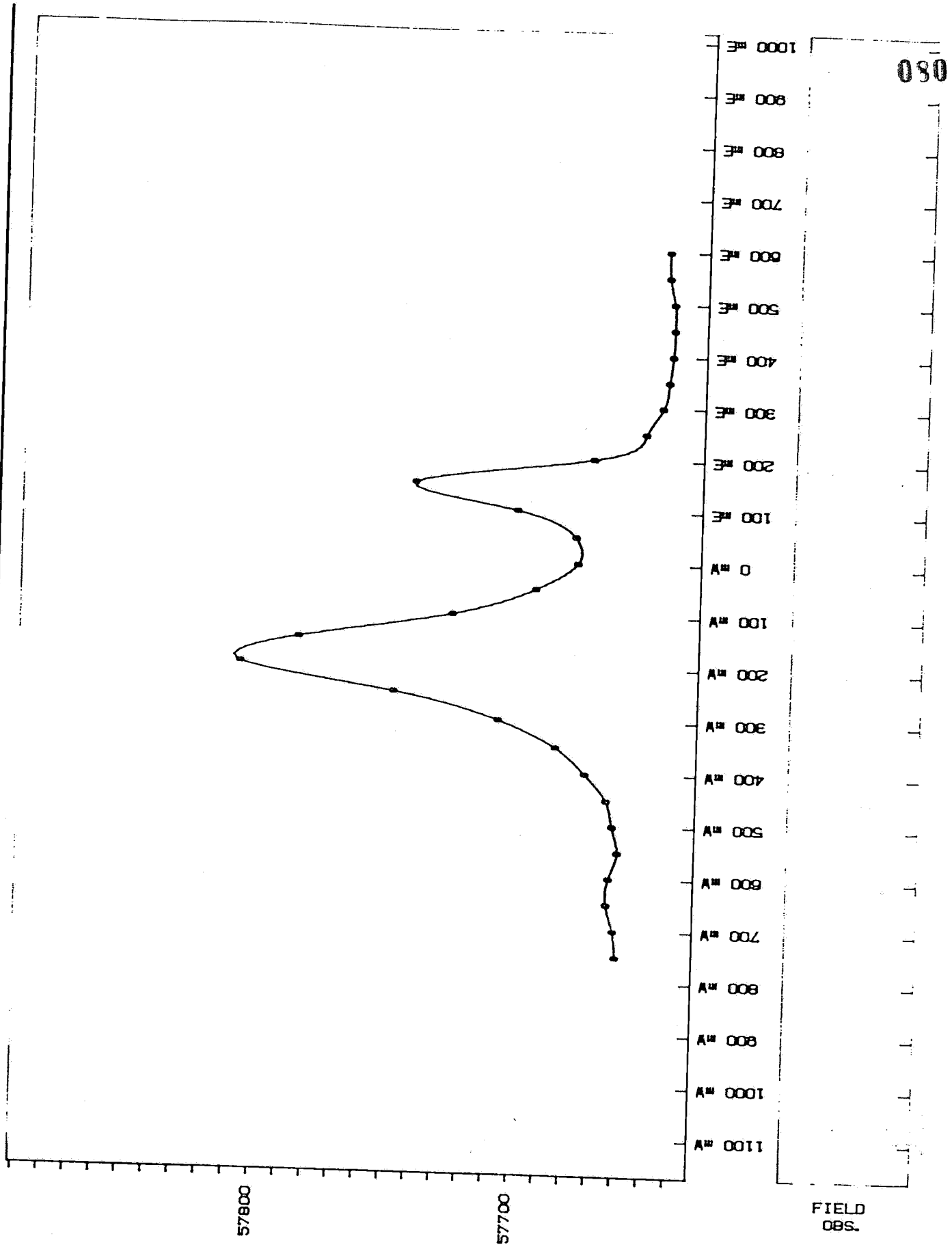


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LINE AZIMUTH : N
PEAK MAG. READ. : 57718.2 nT
MAP SHEET : H53-9
AMG OF ON/OE : 2945mE66228mN
LINE & FID. NO. : 1444.1N/845
SURVEY DATE : 04/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/W01
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1726	

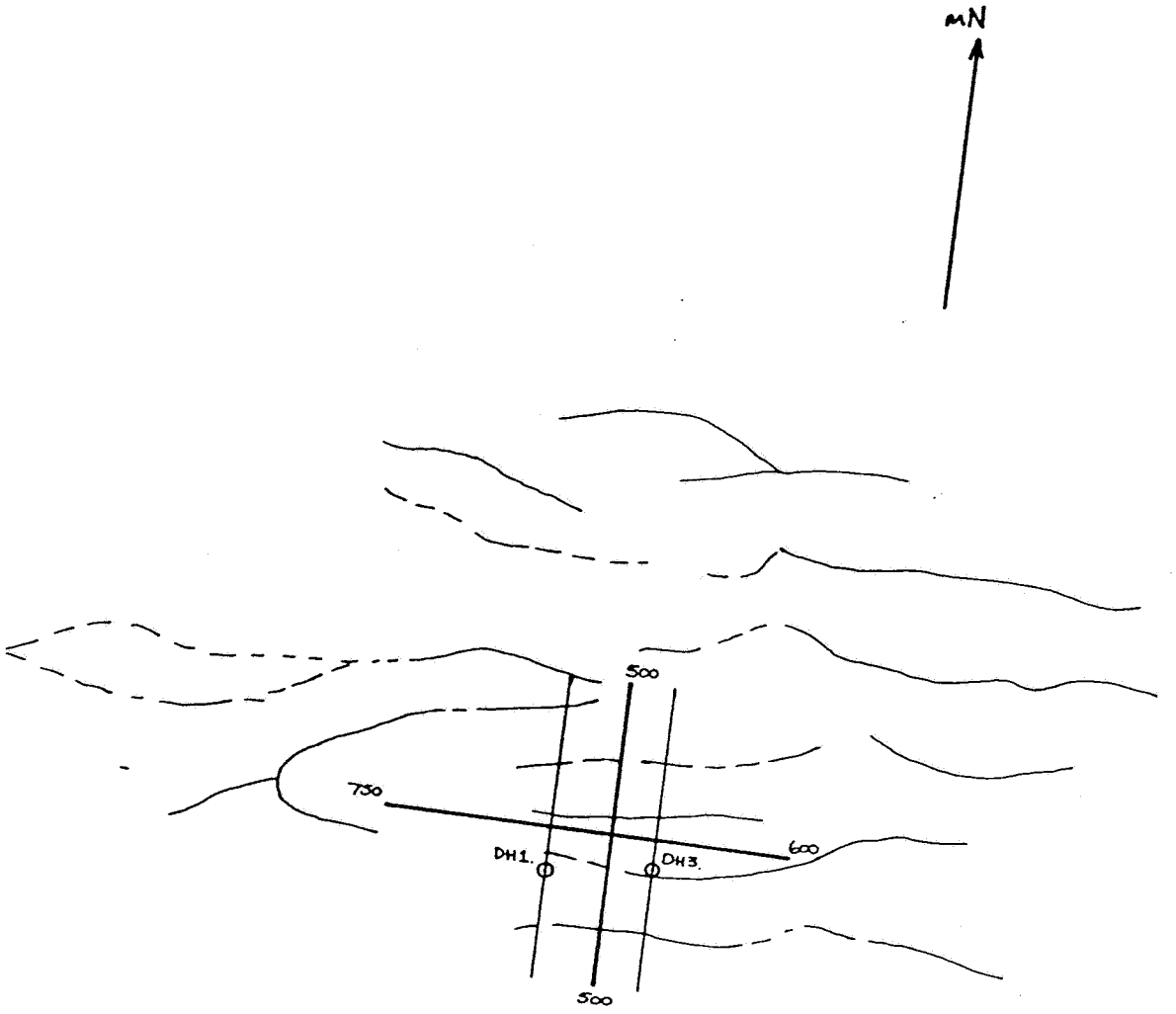


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VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : N 90 E
PEAK MAG. READ. : 57807.4 nT
MAP SHEET : H53-9
AMG OF ON/OE : 2945mE66226mN
LINE & FID. NO. : 1444.1N/845
SURVEY DATE : 04/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/W01
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1727	



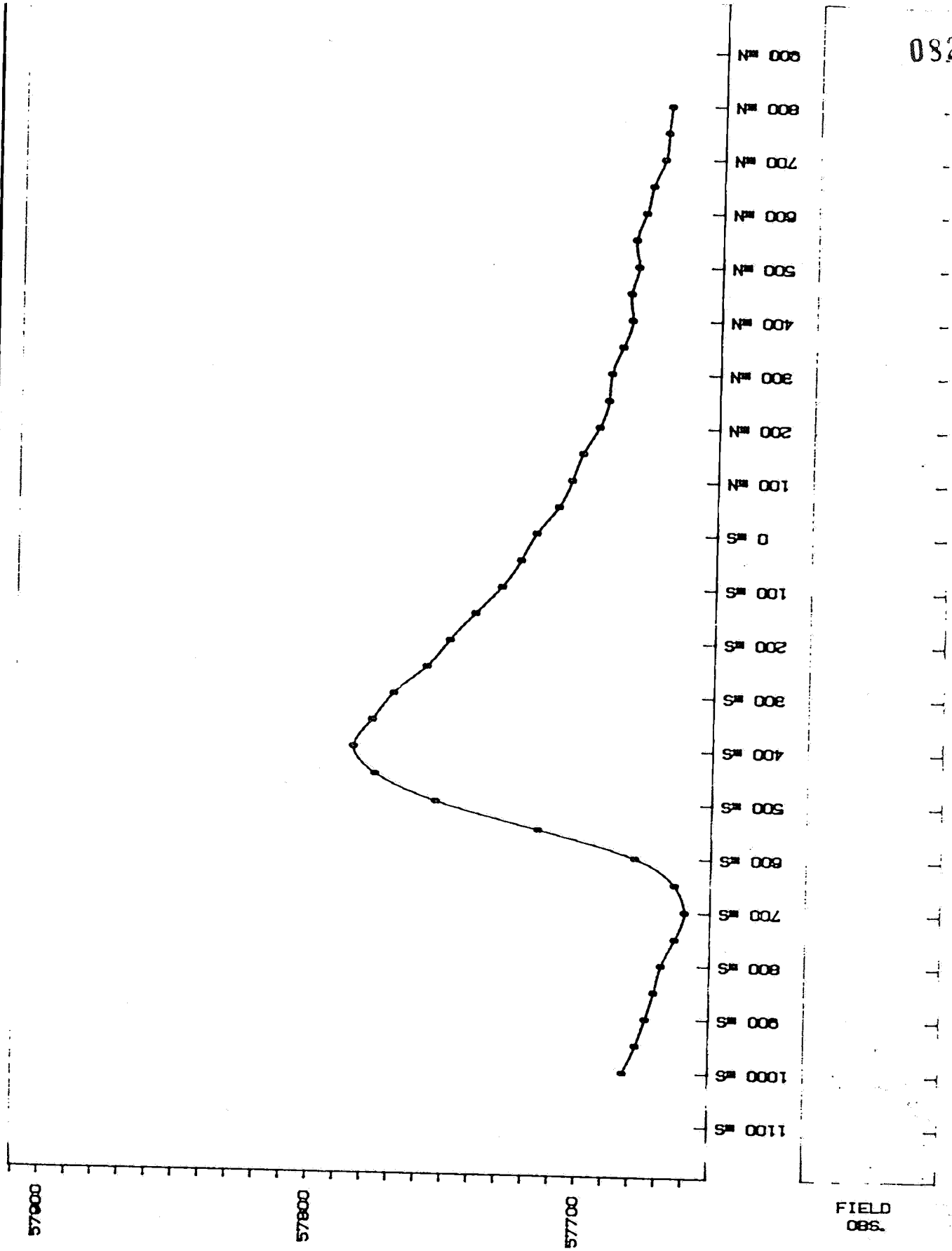
STOCKDALE PROSPECTING LIMITED

LOCATION ANOMALY 5436-1, W01.

A.M.G. H53-9, 594224.

(AIR PHOTO RUN 5|37.)

Compiled	Drawn	Date	Scale	SEL
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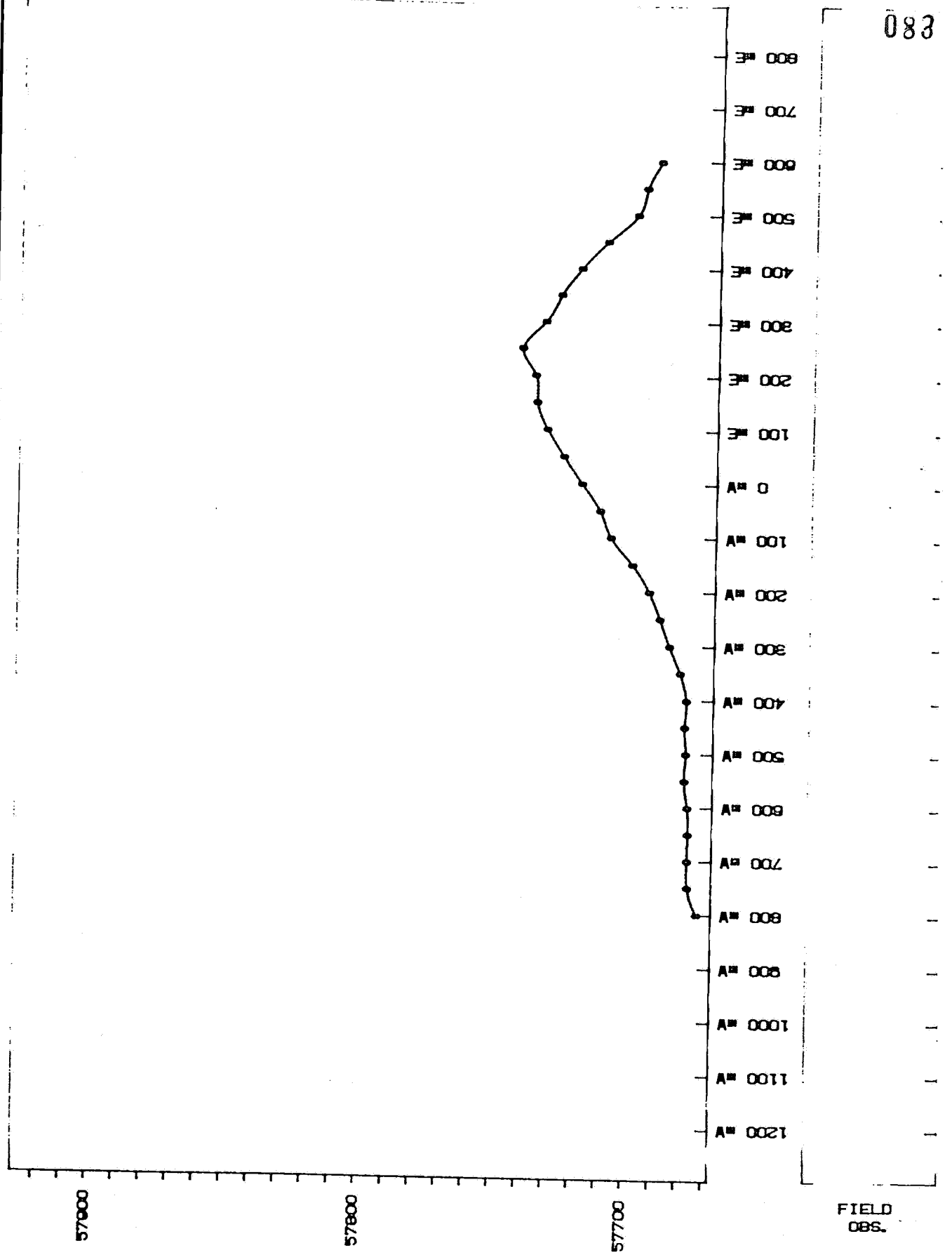


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VERTICAL SCALE	:	20 nT/CM
LINE AZIMUTH	:	N
PEAK MAG. READ.	:	57784.8 nT
MAP SHEET	:	H59-9
AMG OF ON/OE	:	2934mE86215mN
LINE & FID. NO.	:	1446.36/3258
SURVEY DATE	:	09/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/W02
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1728	

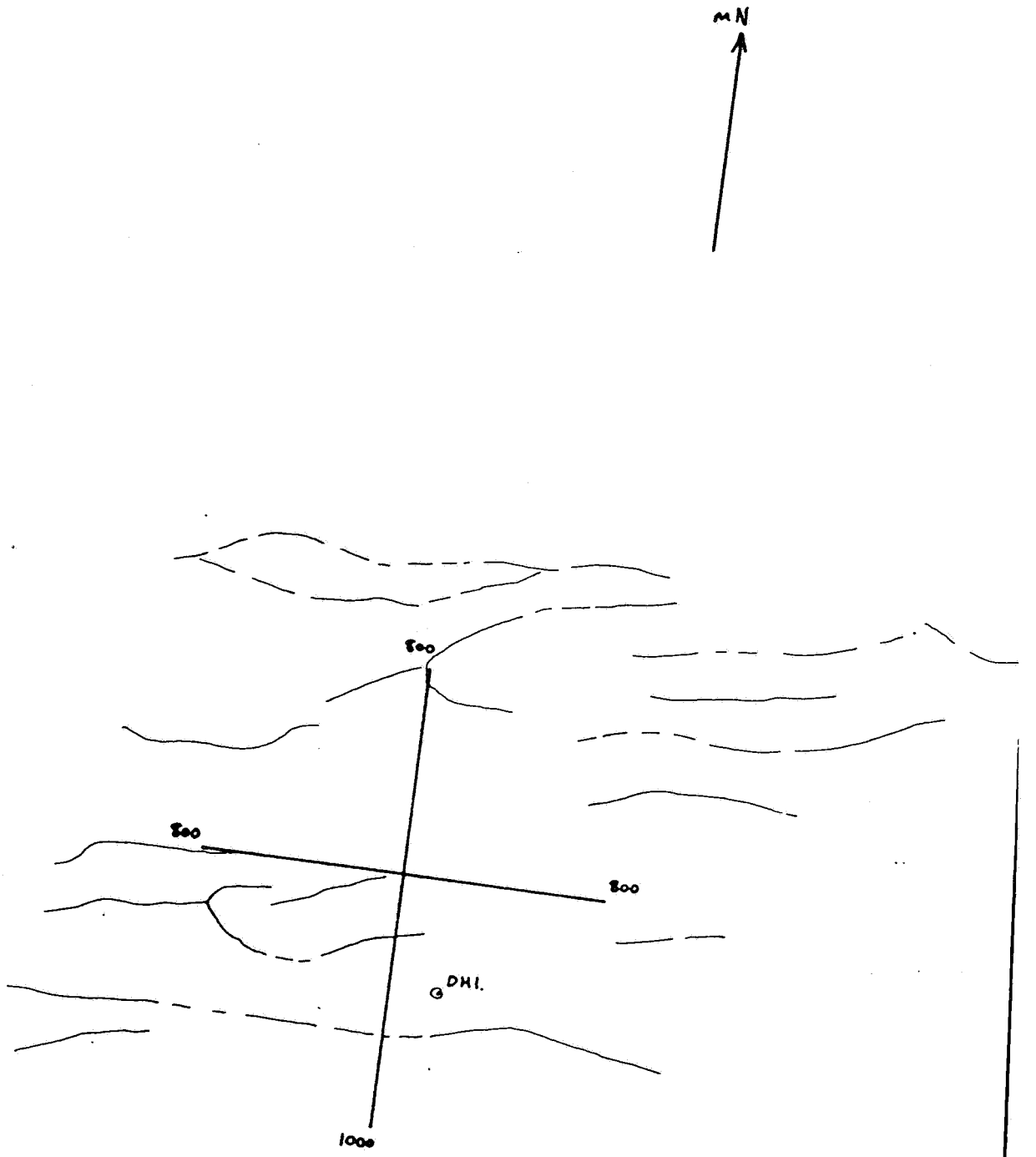


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VERTICAL SCALE	20 nT/CM
LINE AZIMUTH	N90E
PEAK MAG. READ.	57741 nT
MAP SHEET	H59-9
AMG OF ON/OE	2934mE66215mN
LINE & FID. NO.	1446.3S/3258
SURVEY DATE	09/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/W02
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1729	



STOCKDALE PROSPECTING LIMITED

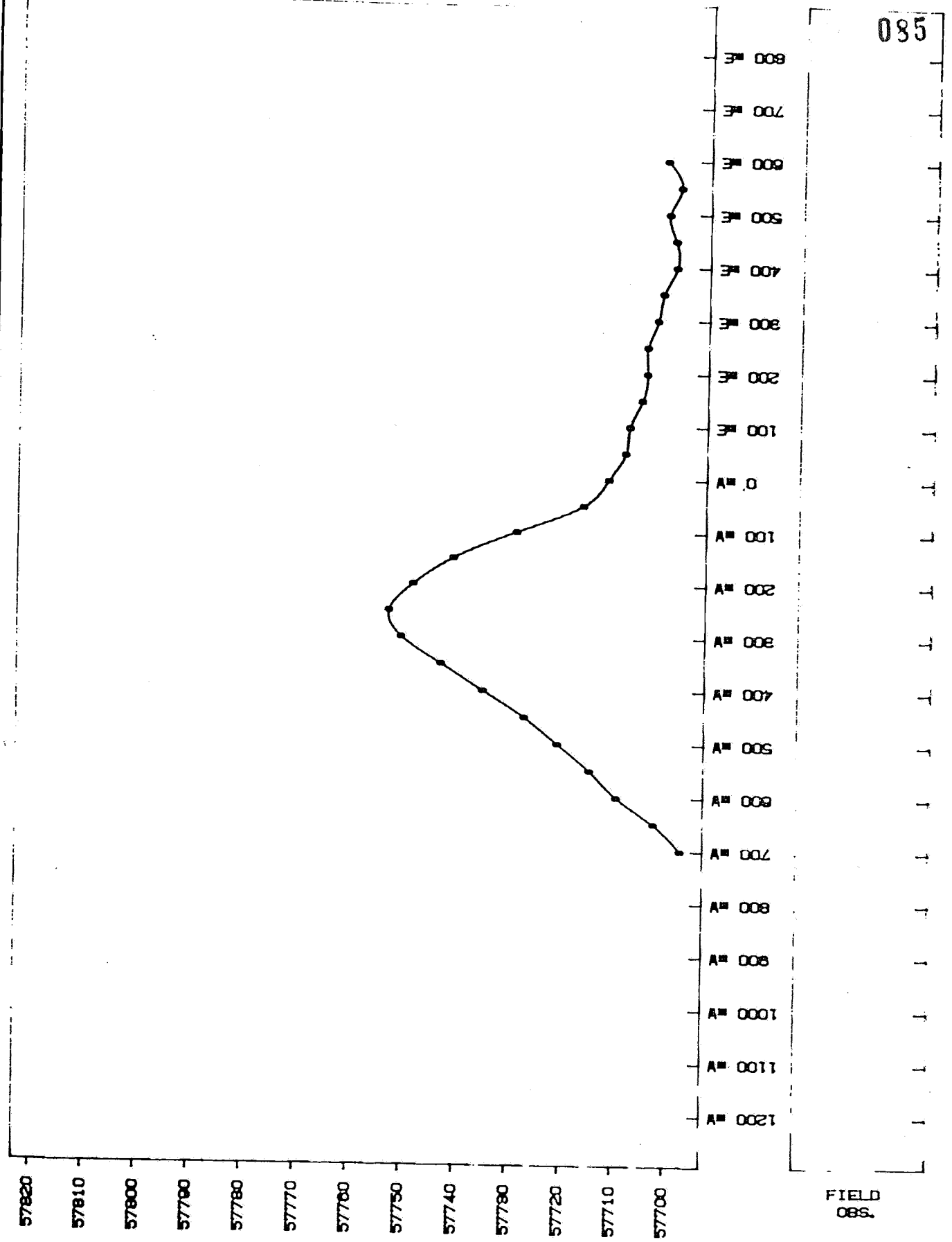
LOCATION ANOMALY 5436-1, W02.

A.M.G. HS3-9, 593221.

(AIR PHOTO RUN 5/37).

Compiled	Drawn	Date	Scale	
TSB		28-9-82	1:25000	SEL 1741

085

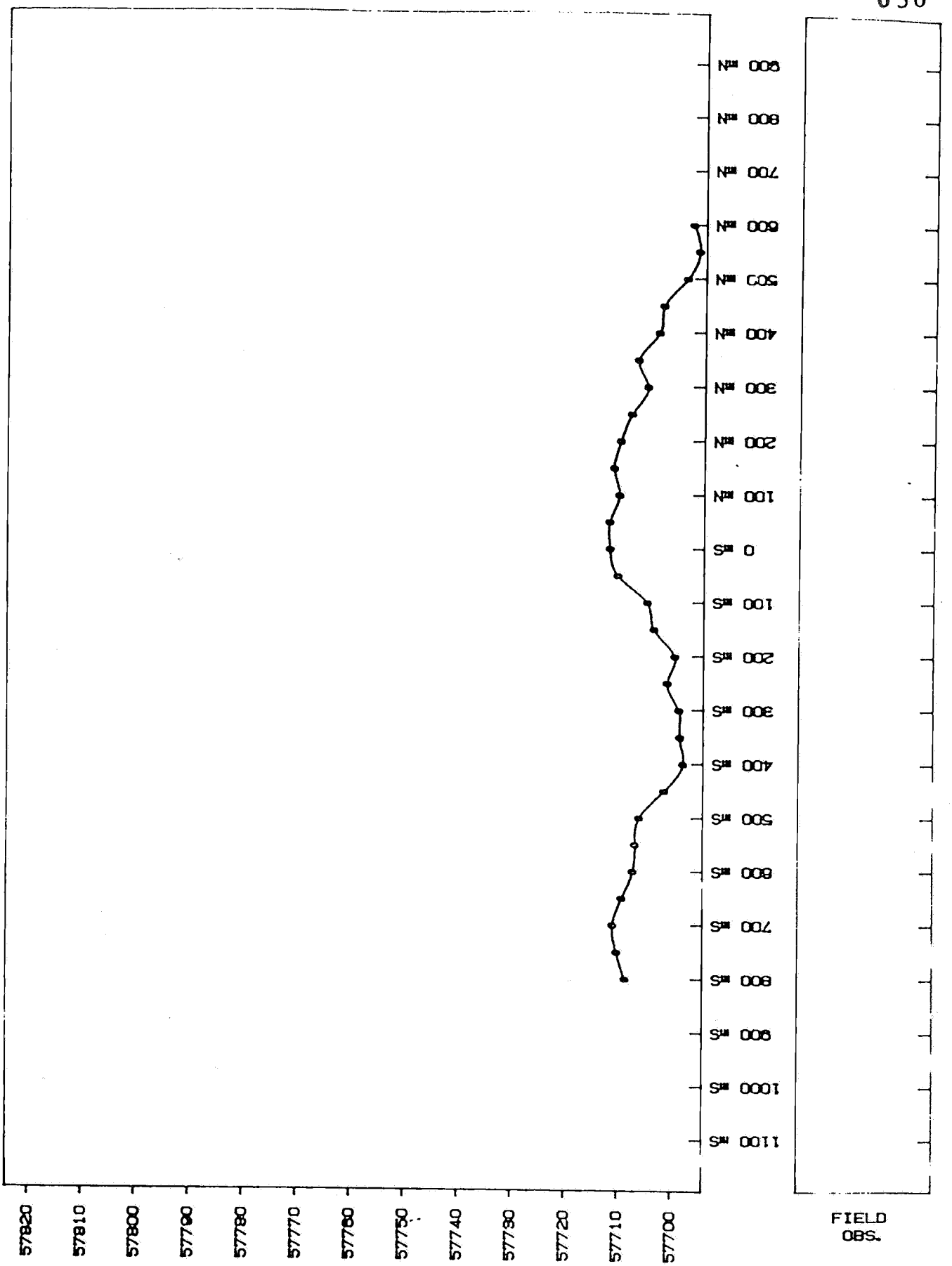


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VERTICAL SCALE	: 10 nT/CM
LINE AZIMUTH	: N 90 E
PEAK MAG. READ.	: 57759.1 nT
MAP SHEET	: H59-9
ANG OF ON/OE	: 2900mE66207mN
LINE & FID. NO.	: 1458/4N/424
SURVEY DATE	: 05/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/W03
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1730	

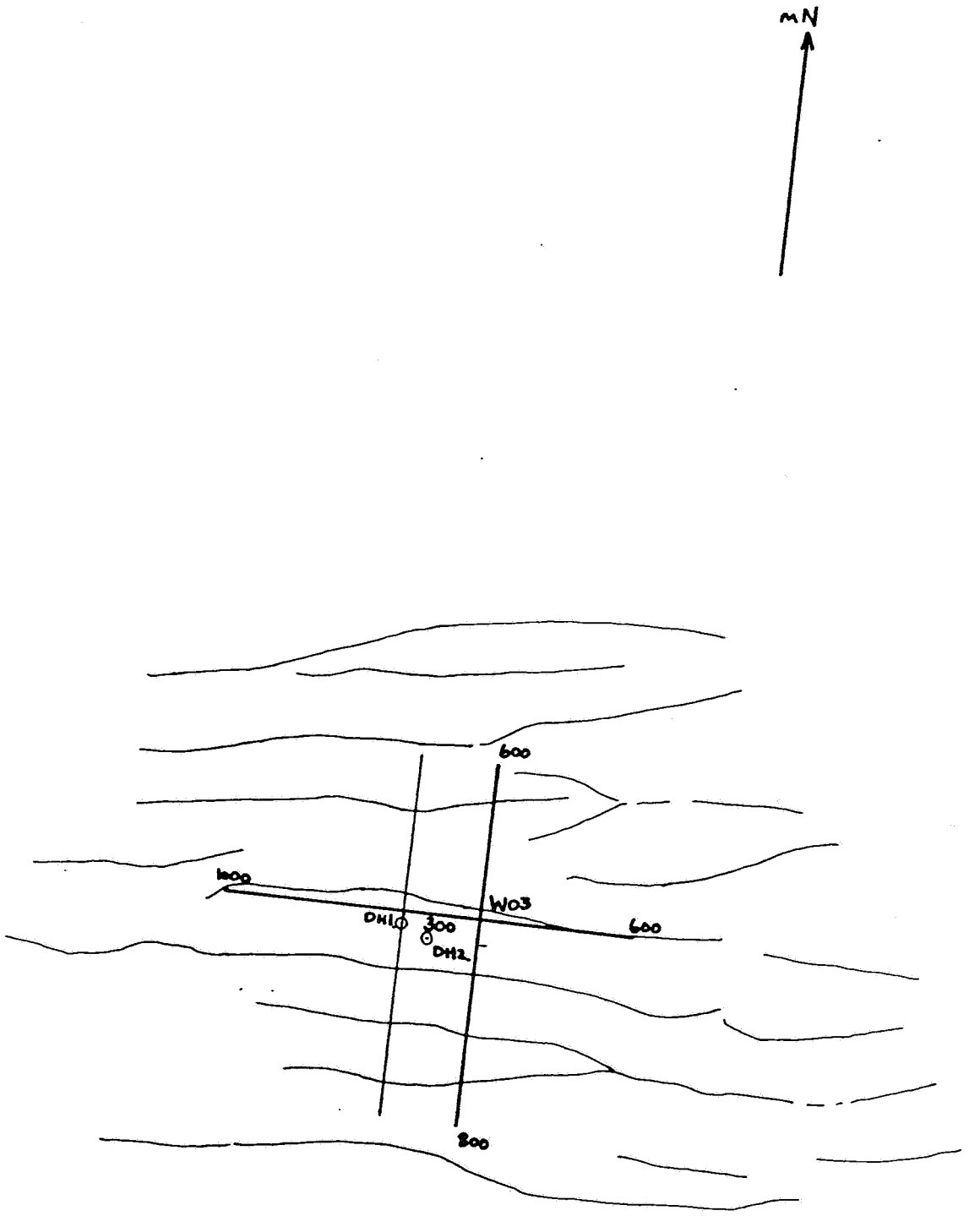


HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : N
PEAK MAG. READ. : 57712.1 nT
MAP SHEET : H53-9
AMG OF ON/OE : 2906mE66207mN
LINE & FID. NO. : 1459/4N/424
SURVEY DATE : 05/08/82

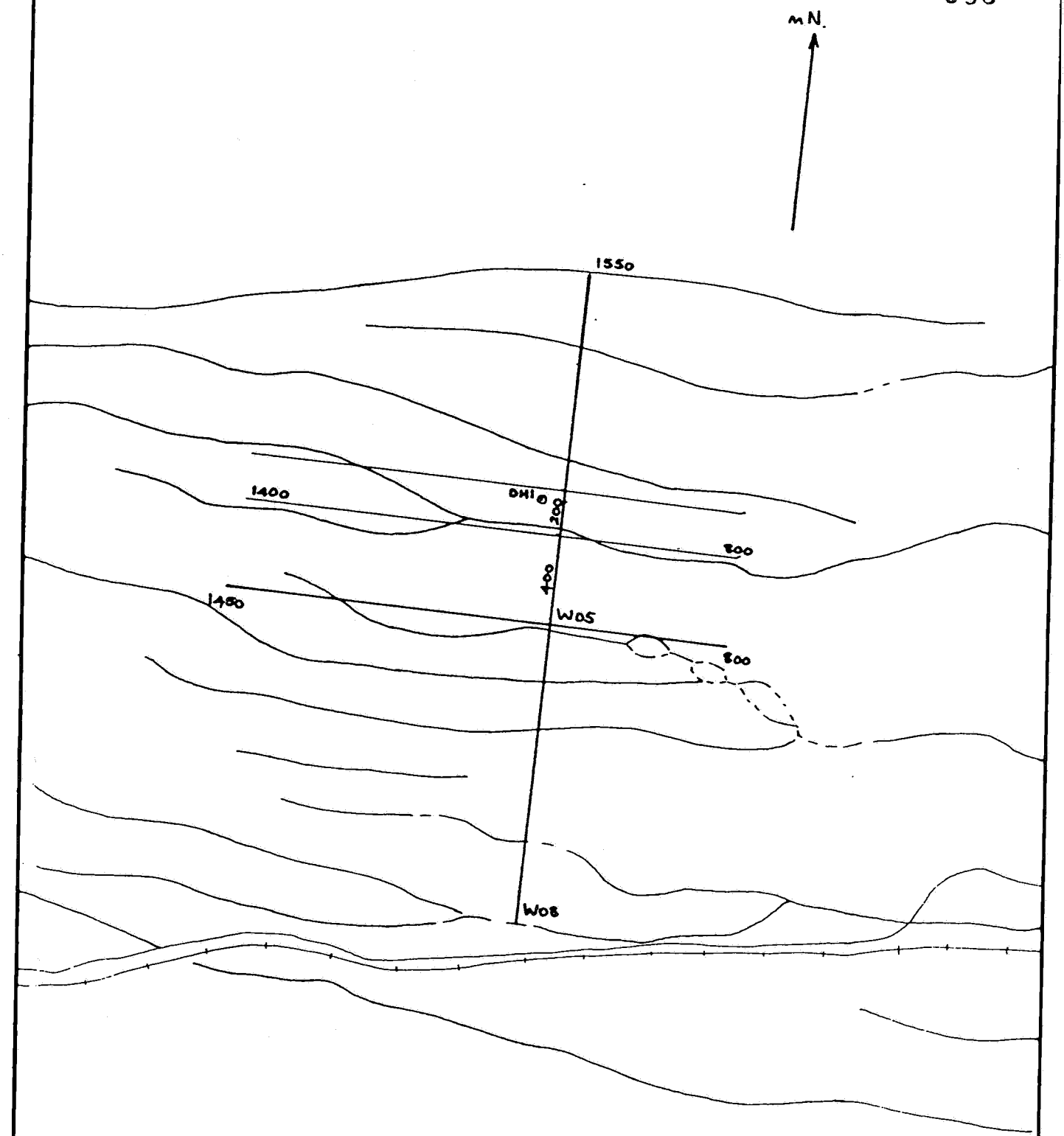
STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/W03
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1731	



STOCKDALE PROSPECTING LIMITED				
LOCATION ANOMALY 5436-1, W03. A.M.G. H53-9, 590220. (AIR PHOTO RUN 5|37).				
Compiled TSB	Drawn	Date 28-9-82	Scale 1:25000	SEL 1742



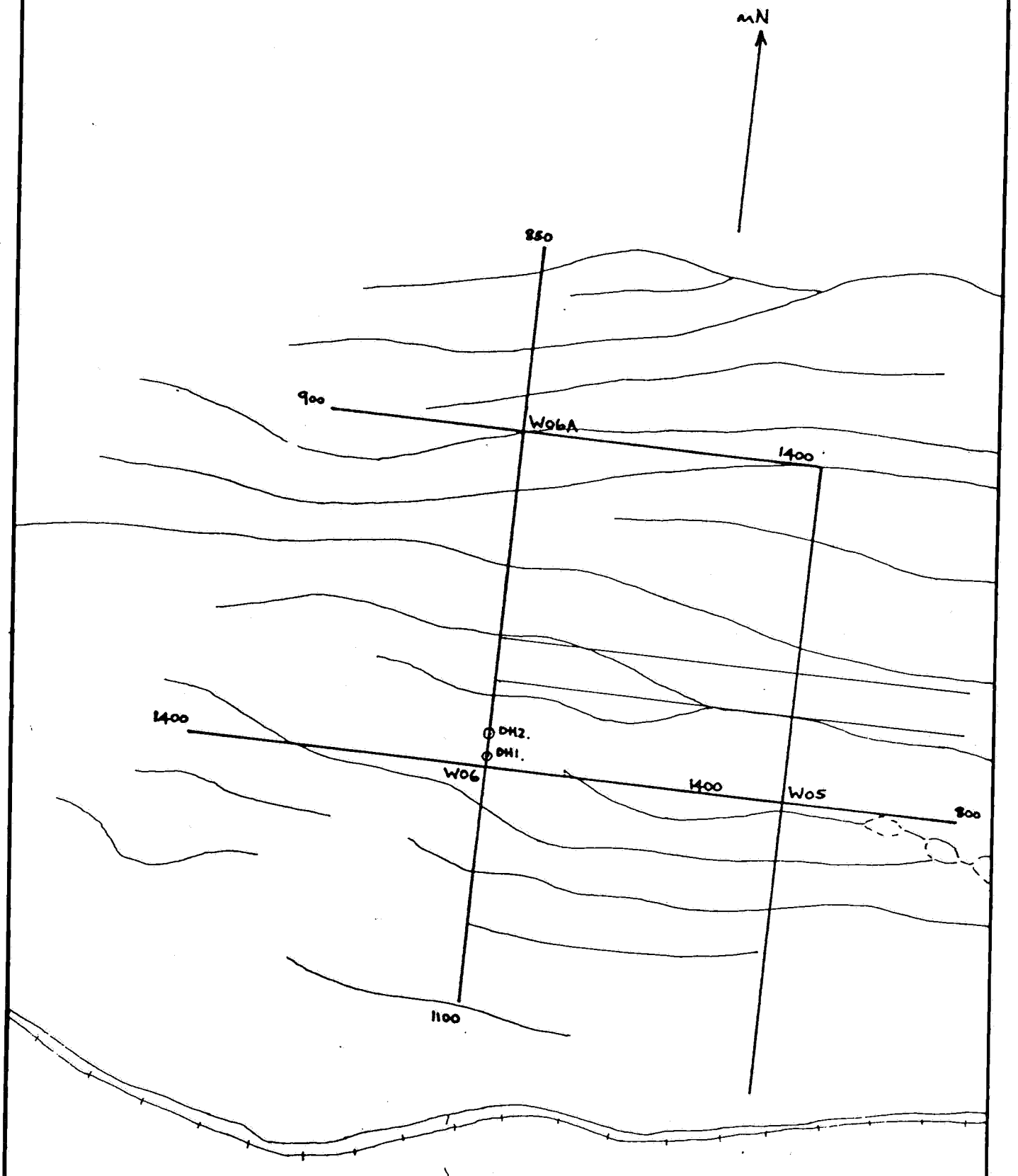
STOCKDALE PROSPECTING LIMITED

LOCATION ANOMALY 5436-1, W05.

A.M.G. HS3-9, 597215.

(AIR PHOTO RUN 5/37).

Compiled	Drawn	Date	Scale	
TSB		8-10-82	1:25000.	SEL 1743



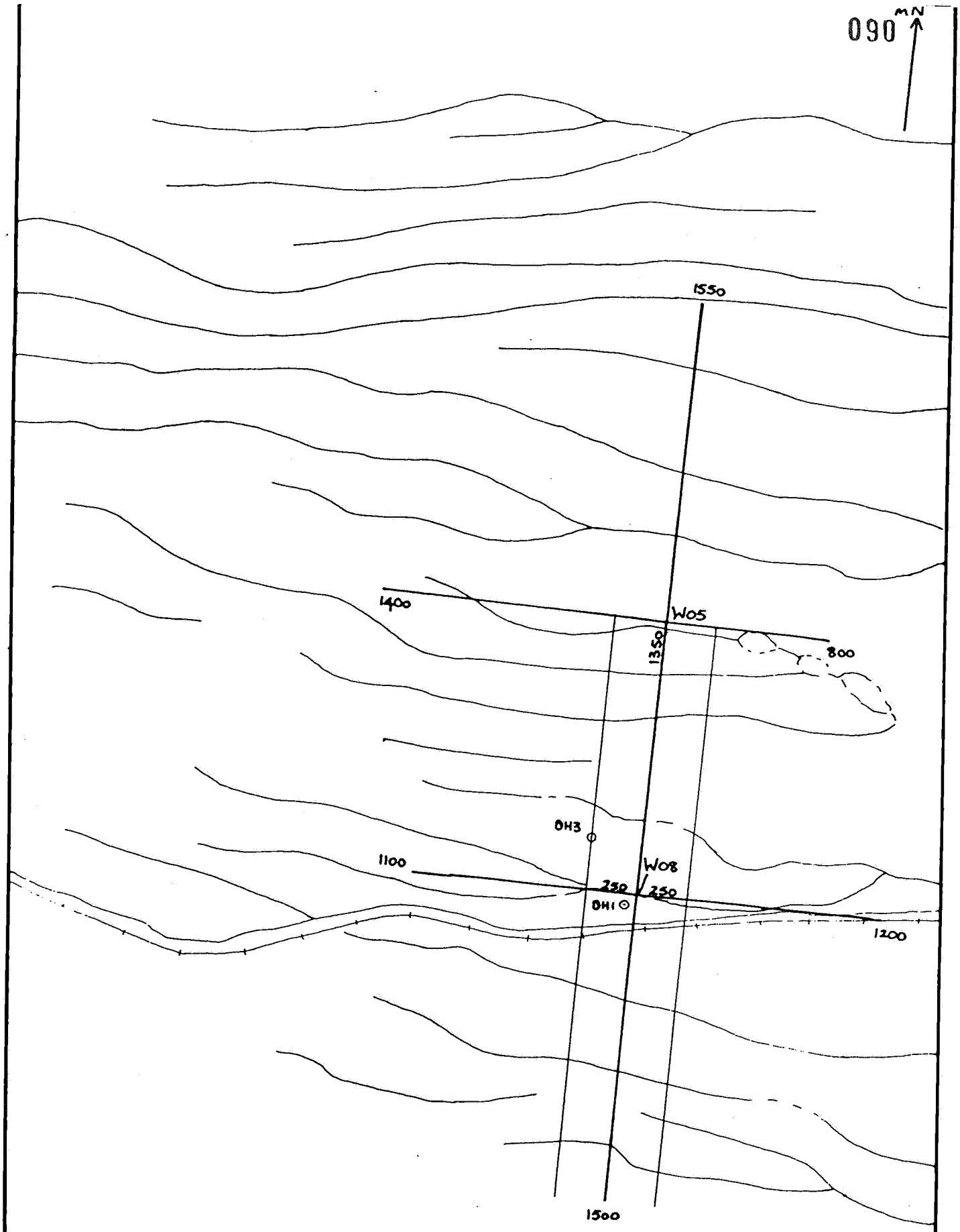
STOCKDALE PROSPECTING LIMITED

LOCATION ANOMALY 5436-1, W06.

A.M.G. H53-9, 595215.

(AIR PHOTO RUN 5|37).

Compiled	Drawn	Date	Scale	
SB		28-9-82	1:25000	SEL 1744



STOCKDALE PROSPECTING LIMITED

LOCATION ANOMALY 5436-1, W08

A.M.G. HS3-9, 596214.

(AIR PHOTO RUN 5/37).

Compiled	Drawn	Date	Scale	
TSB		28-9-82	1:25,000	SEL 1745

APPENDIX II

DRILL HOLE LOGS : MAP SHEET 5436-1

ANOMALY	DRILL HOLE	PAGE
E02	1	1
E02	2	2
E04	1	4
E04	2	5
E05	1	6
E19	1	8
W01	1	10
W01	3	11
W02	1A	12
W02	1B	13
W03	1	14
W03	2	16
W05	1	18
W06	1	20
W06	2A	22
W06	2B	24
W08	1	26
W08	3A	28
W08	3B	29

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DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 1 of 1

PROJECT TARCOOLA/BARTON AREA BARTON H53-9, 5436-1 | Drillhole type Rotary/Percuss.c

CO-ORDS 600218 DEC LN VERTICAL AZIMUTH — LOC 300S/0E | DH No EDZ DH-1

DATE COMMENCED 4/10/1982 DATE COMPLETED 5/10/1982 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to — HQ Core to — NQ Core to — BQ Core to — EOH 80m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	64	AEOLIAN SAND	Red-orange, ferruginous, medium grained to granular quartz sand, + calcrete.	0-4	Bsc.: SHS x 8π −1.3 30
				4-8	9
				8-12	11
		X0938 0-24m		12-16	10
				16-20	7
				20-24	11
			Clean, white, medium to very-coarse grained quartz sand, with local silcrete + calcrete bands.	24-28	5
		X0939 24-44m		28-32	6
				32-36	8
				36-40	4
				40-44	6
			Yellow-buff, clayey, coarse-grained quartz sand.	44-48	7
		X0940 44-64m		48-52	6
				52-56	8
				56-60	6
				60-64	7
64	66	GRITTY CLAY	Red, ferruy clay + discrete carbonate + kau-qz-	64-66	8
66	72	GRANODIORITE	Weathered, pink-yellow-white medium-grained, bi-o--pl-qz granodiorite.	66-68	34 31
				68-70	34 23
				70-72	21 38
72	80	"BIOTITE SCHIST"	Blue-grey, orthoclase-plagioclase-quartz biotite-rich schistose granodiorite.	72-74	20 38
				74-76	24 42
				76-78	21 46
				78-80	38 35
Sampled at 2m intervals 64-80m — X0941 - X0948			Borehole completed at 80m in BIOTITE-SCHIST.		X10⁻³ SI X10⁻³ SI Magnetic susceptibility

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Appendix 10
Page 1 of 2

DRILLHOLE LOG SUMMARY SHEET

PROJECT THRLOOLA | BARTON AREA BARTON HS3-9, 5436-1 Drillhole type Rotary Percussion

CO-ORDS 600218 DEC LN VERTICAL AZIMUTH – LOC OE | 100S DH No EO2 DH2

DATE COMMENCED 5-10-82 DATE COMPLETED 6-10-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to NQ Core to: BQ Core to EOH 104m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	72	AEOLIAN SAND	Orange-red, silty to very coarse grained, ferruginous, quartz sand + calcrete	C-4	15
		X0949:- 0-24m		4-8	11
				8-12	21
				12-16	12
				16-20	9
	24			20-24	6
			Buff-white, fine to very coarse grained quartz sand and minor calcrete	24-28	6
		X0950:- 24-48m.		28-32	5
				32-36	<5
				36 40	<5
				40-44	<5
	48			44-48	<5
			Yellow, fine to very coarse grained quartz sand.	48-52	5
		X0951:- 48-72m		52 56	6
				56 60	5
				60 64	<5
		X0952 - 72-74m.		64-68	5
72	74	GRITTY CLAY	Red, ferruginous gritty clay - old soil horizon?	68 72	5
74	92	CLAY	Gritty, pale grey sericitic soft clay	72 74	42 42
				74-78	15 15
		X0953:- 74-92m		78-82	14 11
				82 84	13 7

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 2 of 2

PROJECT	TARCOOLA / BARTON	AREA	BARTON MS3-9, 5436-1
CO-ORDS	600218	DEC^{LN} VERTICAL	AZIMUTH -
LOC	6E/100S	Drillhole type	Rotary Percussion
DH No	E02 DH2		
DATE COMMENCED	5-10-82	DATE COMPLETED	6-10-82.
DRILLED BY	P NITSCHKE	DRILL RIG	BOURNE 2000
Non Coring to:		HQ Core to	
NQ Core to:		BQ Core to	
EOH	104m.		

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS	
74	92	CLAY		84-88	14	10
92	96	CHLORITIC CLAY. X0954:- 92-96m	Dark-green-grey chloritic clay with deformed mafic chips (dyke?)	88-92	11	9
96	104	GRANODIORITE. X0955:- 96-100m X0956: 100-102m	Blue-white medium to coarse grained granodiorite Biotite, orthoclase, plagioclase, quartz and minor mafics.	92-96	18	12
				96-100	50	50
				100-102	55	45
		X0957 - 102-104m	Borehole completed at 104m in GRANODIORITE.	102-104	48	42

Bison JHP $\times 10^{-5}$ SI (Field (Field readings $\div 1.3$ $\times 8\pi$)

SCALE 1:

GEOLOGIST

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DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 1 of 1

PROJECT TARCOOLA | BARTON AREA BARTON HS3-9, 5436-1. Drillhole type Rotary Percussio

CO-ORDS 603215 DEC^LN VERTICAL AZIMUTH – LOC. OE/1005 DH No EC4 DH1

DATE COMMENCED 19-9-82 DATE COMPLETED 19-9-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000.

Non Coring to: HQ Core to: NQ Core to: BQ Core to: EOH 56m.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	40	AELOIAN SAND	Red. ferruginous, medium to coarse grained quartz sand, with calcrete nodules and silcrete Becoming less oxidised at 8m Containing carbonate-cemented grit at 12m, to 22m. Minor soft white clay 24-26m	0-2	14 23
				2-4	7 16
				4-6	
				6-8	
				8-10	
				10-12	4 2
				12-14	2 2
				16-18	7 5
				18-20	9 150
				20 22	6 2
				22-24	3 2
				24-26	17 45?
				26 28	10 10
				28-30	3
				30-32	6
				32-34	4 3
				34-36	7 10
				36 38	3
				38-40	10 4
40	46	CLAYEY SAND	60% carbonate cemented med-coarse qtz sand 20% fibrous white clay, 20% yellow clay Pink carbonate (siderite?) 44-46m	40-42	5 3
				44-46	2
46	56	SCHIST	Biotite, plagioclase, quartz, muscovite, dark weathered schist	46-48	3
				48-50	4 2
				50-52	3 2
				52-54	3 4
				54-56	4 3
			Borehole completed at 56m in SCHIST. Sampled at 2m intervals 0-56m X0783 – X0780		cgs $\times 10^{-6}$ SI units $\times 10^{-5}$ Magnetic Susceptibility

SCALE 1:400 GEOLOGIST TCR Lamb DATE

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 1 of 1

PROJECT TARCOOLA | BARTON AREA BARTON HS3-9, 5436-1 Drillhole type Rotary Percussion

CO-ORDS 603215 DEC^{LM} VERTICAL AZIMUTH – LOC OE | 505 DH No EO4 Drill

DATE COMMENCED 20-9-82 DATE COMPLETED 20-9-82 DRILLED BY P NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to NQ Core to BQ Core to EOH 66m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	36	AEOLIAN SAND	Orange-brown, medium to coarse grained, ferruginous quartz sand, containing calcrete at top, and oxidised silcrete.	0-4	23
				8-12	12
				12-16	5
				16 20	4
				20-24	2
				24-28	3
				28-32	4
				32-36	5
36	64	GRITTY CLAY	Yellow, buff, pink, purple clay, containing gritty quartz grains – weathered bedrock Including ferruginised biotite chips	36 40	5
				40-44	9
				44-48	5
				48-52	6
				52-56	6
				56-60	8
				60 64	7
64	66	SCHIST	Quartz-biotite schist (coarse qtz + grey clay)	64-66	6
			Borehole completed at 66m in SCHIST. Sampled at 4m intervals 0 66m X0781 – X0797		kgs SI units $\times 10^{-6}$ $\times 10^{-5}$ magnetic susceptibility

SCALE 1:400 GEOLOGIST TCR DATE

STOCKDALE PROSPECTING LTD

Appendix 10.
Page 1 of 2

DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA / BARTON AREA BARTON MS3-9, 5436-1. Drillhole type Rotary Percussio

CO-ORDS 604214 DEC^{LN} VERTICAL AZIMUTH – LOC OE/1505 DH No EOS DH1

DATE COMMENCED 20-9-82 DATE COMPLETED 20-9-82 DRILLED BY P. NITSCHKE DRILL RIG BOMENE 2000

Non Coring to: HQ Core to NQ Core to BQ Core to EOH 96m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS	
0	60	AEOLIAN SAND	Red-orange-brown, medium to coarse grained, ferruginous quartz sand + calcrete and silcrete	0-4m	14	15
				4-8		
			Becoming fresh, pale grey quartz sand at 20m.	8-12	7	5
				12-16	4	9
				16-20	69	200
				20-24	51	400
				24-28	2	4
				28-32	2	3
				32-36	2	6
			Some fine sandstone and clayey siltstone at 40-48m	36-40	3	5
				40-44	3	4
			30% ferricreted quartz sand 48-52m	44-48	4	5
				48-52	5	6
				52-56	2	4
				56-60	9	5
60	84	GRITTY CLAY	Purple-brown-grey clay, containing gritty quartz, sericite, biotite, limonite, chloritic clay	60-64	9	150
				64-68	10	30
				68-72	2	5
				72-76	8	6
				76-80	4	4
				80-84	4	7
84	96					

SCALE 1:400 GEOLOGIST TTR/A.HD DATE 22-9-82

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 2 of 2

PROJECT TARCOOLA/BARTON AREA BARTON HS3-9 S436-1 Drillhole type Rotary Percussio

CO-ORDS 604214 DEC LN VERTICAL AZIMUTH - LOC OE/1505 DH No EOS D111

DATE COMMENCED 20-9-82 DATE COMPLETED 20-9-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to HQ Core to NQ Core to BQ Core to EOH 96m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
84	96	WEATHERED BEDROCK	Grey to dark green clay, containing quartz, sericite and chlorite. Weathering product of intermediate - basic hypabyssal rock?	84-88	3 7
				88-92	73 650
				92-96	4 11
			Borehole completed at 96m in WEATHERED INTERMEDIATE TO BASIC Rock.		cgs SI units. $\times 10^{-6}$ $\times 10^{-5}$ magnetic susceptibility
			Sampled at 4m intervals 0-96m X0798 - X0821.		

SCALE 1:400 GEOLOGIST TCB

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10
Page 1 of 2

PROJECT TARCOOLA / BARTON AREA BARTON H53-9, 5436-1 | Drillhole type Rotary/Percussion

CO-ORDS 59721 DEC LN VERTICAL AZIMUTH – LOC. 705/50E | DH No E-19 DH-1

DATE COMMENCED 2/10/1982 DATE COMPLETED 3/10/1982 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: NQ Core to NQ Core to: BQ Core to EOH 98m.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	64	AEOLIAN SAND	Orange, ferruginous, medium to very-coarse grained quartz sand.	0-4	13 12
				4-8	19 17
				8-12	13 10
				12-16	13 15
				16-20	9 8
			Clean, white, medium to coarse grained quartz sand, with minor calcrete bands.	20-24	7 5
				24-28	7 4
				28-32	7 4
				32-36	7 9
				36-40	5 5
				40-44	3 4
			Yellow, clayey, fine to medium grained quartz sand.	44-48	3 6
				48-52	6 5
				52-56	6 7
				56-60	4 4
				60-64	6 8
64	76	CLAYEY RED SAND	Red-orange, clayey, ferruginous medium to coarse grained quartz sand.	64-68	4 8
				68-72	4 7
				72-76	<5 5
76	80	GREY SAND	Pale-grey, fine-medium grained quartz sand.	76-80	8 5
80	84	LIGNITIC SAND	Lignitic material & medium grained quartz sand.	80-84	7 7

SCALE 1:100 GEOLOGIST TCR / MJD DATE 5/4/1983

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 2 of 2

PROJECT TARCOOLA/BARTON AREA BARTON H53-9, 5436-1 Drillhole type Rotary/Percussion

CO-ORDS 59721 DEC^LN VERTICAL AZIMUTH – LOC. 70S/50E DH No E-19 DH-1

DATE COMMENCED 2/10/1982 DATE COMPLETED 3/10/1982 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to NQ Core to: BQ Core to. EOH 98m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS	
84	92	LIGNITIC CLAY	Lignite + carbonaceous silt; white sericitic clay from 88m	84–88	6	4
				88–92	6	5
92	98	GRANITE	Grey-pink, coarse-grained granite; biotite-plagioclase-orthoclase-quartz.	92–94	21	13
				94–96	16	9
				96–98	11	19
			Drillhole completed at 98m in granite.		Bison x8π	JH8 ÷1.3
					Magnetic Susceptibility x10⁻⁵ SI	

Sampled as follows.-

X0928	0–20m
X0929	20–44
X0930	44–64
X0931	64–76
X0932	76–80
X0933	80–84
X0934	84–92
X0935	92–94
X0936	94–96
X0937	96–98

SCALE 1:100 GEOLOGIST TGR/MJD DATE

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 1 of 1

PROJECT TARCOOLA / BARTON AREA BARTON HSS-9, 5436-1 Drillhole type Rotary Percussion

CO-ORDS 594224 DEC^LN – AZIMUTH VERTICAL LOC 2000N/1505 DH No WCT DH1

DATE COMMENCED 26-9-82 DATE COMPLETED 26-9-82 DRILLED BY P NITSCHKE DRILL RIG BOYLENE 2000

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

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS	
0	36	AEOLIAN SAND	Orange, ferruginous coarse grained quartz sand + calcrete	0-4	6	5
			At 4m, white, medium to very coarse grained quartz sand, minor calcrete and silcrete	4-8	3	4
				8-12	2	2
				12-16	38	160
				16-20	14	170
			At 28m pale yellow becoming darker yellow, fine to medium sand, minor silcrete	20-24	15	140
				24-28	4	2
				28-32	7	4
				32-36	3	2
36	40	CLAY + SILTST.	Buff-grey clay and 50% white, brittle calcareous (?) siltstone, becoming gritty	36-38	12	25
				38-40	17	50
40	48	UNDIFFERENTIATED BASALTIC	Blue-black, fine grained matrix with medium to coarse grained plagioclase (?) phenocrysts.	40-42	23	40
				42-44	15	40
				44-46	17	30
				46-48	32	45

Borehole completed at 48m in UNDIFFERENTIATED BASALTIC

RESULTS: cgs $\times 10^{-6}$ SI units $\times 10^{-5}$ magnetic susceptibility

Samples for Treatment -

X0903	0-4m
X0904	4-28m
X0905	28-36m
X0906	36-38m
X0907	38-40m
X0908	40-42m
X0909	42-44m
X0910	44-46m
X0911	46-48m

SCALE 1:100

STOCKDALE PROSPECTING LTD

Appendix 10.
Page 1 of 1

DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA / BARTON AREA BARTON MS3-9, 5436-1 Drillhole type Rotary Percuss.

CO-ORDS 594224 DEC^LN _ AZIMUTH VERTICAL LOG ISCE / 100S DH No WC1 DH3

DATE COMMENCED 25-9-82 DATE COMPLETED 25-9-82 DRILLED BY P NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to: NQ Core to: BQ Core to. EOH 46m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	39.5	AEOLIAN SAND	Dark orange, ferruginised medium to coarse grained quartz sand. Becoming pale cream-grey sand at 6m with carbonate cemented concretions including hard silcrete horizon 16-20m. Fining below with lignite contamination 16-20m 28-36m, becoming yellow-buff fine sand with minor white clay 36-39.5, darker yellow-buff silty fine sand.	0-4m 4-8 8-12 12-16 16-20 20-24 24-28 28-32 32-36	10 7 2 3 4 6 10 6 8
39.5	46.0	SILTSTONE.	Pale cream, brittle, soft siltstone At base, quartz-rich banded gneiss?	36-40 40-44 44-46	10 4 4
			Borehole completed at 46m in GNEISS Samples for Treatment - X0898 0-8m X0899 8-28m X0900 28-36m X0901 36-44m X0902 44-46m		cgs x10^-6 magnetic susceptibility

SCALE 1:100 GEOLOGIST TCG DATE

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 1 of 2

PROJECT TARCOOLA / BARTON AREA BARTON H53-9, 5436-1 Drillhole type Rotary Percussio

CO-ORDS 593221 DEC^LN VERTICAL AZIMUTH - LOC. 200E/450S DH No Anom. W02 DH-1A.

DATE COMMENCED 27/9/1982 DATE COMPLETED 27/9/1982 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to NQ Core to BQ Core to EOH 68.m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	28	AEOLIAN SAND	Oxidized, medium to coarse grained quartz sand, with calcrete, to 4m	0-4	x10⁻⁵ SI 12
				4-8	6
			clean, yellow-white, medium to coarse grained quartz; calcrete at top, silcrete towards bottom	8-12	4
				12-16	2
				16-20	3
				20-24	5
				24-28	4
28	40	FERRUGINOUS SAND	Orange-red-maroon, coarse-very coarse grained quartz sand	28-32	3
				32-36	2
				36-40	2
40	56	SANDY CARBONACEOUS SILTS & LIGNITE	White, coarse-very coarse grained quartz sand, & interbedded carbonaceous silts with lesser lignite.	40-44	1
				44-48	1
				48-52	3
				52-56	1
56	68	CARBONACEOUS SILTS & LIGNITE	Interbedded carbonaceous silts with lesser lignite.	56-60	1
				60-64	4
				64-68	1
			Drillhole abandoned at 68m: caved whilst drilling with 8" drag bit; shifted site 10m to N (DH-1B).		
			Sampled as follows:- X0912, 0-4m X0913, 4-28 X0914, 28-40 X0915, 40-56 X0916, 56-72m		

SCALE 1:

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 2 of 2

PROJECT	TARCOOLA / BARTON	AREA	BARTON H53-9, 5436-1
CO-ORDS	593221	DEC^{LN} VERTICAL AZIMUTH	—
LOC	200E/450S	DH No	Anom WO2 DH-1B.
DATE COMMENCED	29/9/1982	DATE COMPLETED	29/9/1982
DRILLED BY	P. NITSCHKE	DRILL RIG	BOURNE 2000
Non Coring to		HQ Core to	
NQ Core to		BQ Core to	
EOH	82m		

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
			INTERVAL NOT SAMPLED; LITHOLOGIES AS FOR DH-1A.	MAGNETIC SUSCEPTIBILITY RESULTS AS FOR WO2, DH1A.	
			Sampled as follows.- X0916, 68-72m; X0917, 72-76m; X0918, 76-80; X0919, 80-82.		
68	72	CARBONACEOUS SILTS + LIGNITE	Interbedded carbonaceous silts with lesser lignite.	68-72	x10^{-5} SI 9
72	76	LIGNITIC CLAY	Lignite + gritty, light-grey sericitic clay	72-76	8
76	82	GRITTY CLAY (weathered bedrock)	Gritty, green-grey sericitic clay with medium grained orthoclase-plagioclase-biotite-quartz granodiorite chips	76-80	12
				80-82	25
			Drillhole abandoned at 82m; caved whilst casing.		

SCALE 1:400 GEOLOGIST T&B / MJD DATE

STOCKDALE PROSPECTING LTD

Appendix 10.
Page 1 of 2

DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA | BARTON AREA BARTON HS3-9 5436-1. Drillhole type Rotary Percussio

CO-ORDS 590219. DEC LN VERTICAL AZIMUTH – WC 300W/50S DH No WC3 DH1

DATE COMMENCED 29-9-82 DATE COMPLETED 1-10-82 DRILLED BY P NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to. NQ Core to: BQ Core to. EOH 136m.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	100	AEOLIAN SAND	Dark orange-brown, ferruginous, medium to coarse grained quartz sand, becoming more yellow-brown to buff towards 24m Minor consolidated sandstone bands.	0-4	17 15
				4-8	14 8
				8-12	11 4
				12-16	17 3
				16-20	15 2
				20-24	2
			Pale yellow at first to pale grey, fresh, soft, medium to coarse grained quartz sand. Cemented siltstone laminae 28-32m with carbonate.	24-28	2 2
				28-32	11 2
				32-36	6 2
			Pale grey to mauve, fine to medium fresh sand, becoming pale yellow 56-70m, then changing to oxidised red brown quartz sand at 70m Minor silt horizons.	36-40	17 1
				40-44	5 1
				44-48	4 1
				48-52	3 1
				52-56	3 1
				56-60	3 1
				60-64	2 1
				64-68	2 1
				68-72	4 1
			Dark, maroon-brown, heavily ferruginised quartz sand, medium to coarse grained. 80-84m some fresh, pale grey sand. Rare white clay streaks and carbonate cemented sand.	72-76	4 1
				76-80	5 1
				80-84	3 1

SCALE 1:400 GEOLOGIST TCG

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.2
Page 2 of 2

PROJECT TARCOOLA / BARTON AREA BARTON HS3-9, 5436-1 Drillhole type Rotary Percussion

CO-ORDS 590219 DEC^{LN} VERTICAL AZIMUTH – LOC. 3Com/SOS DH No WO3 DH1

DATE COMMENCED 29-9-82 DATE COMPLETED 1-10-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to: NQ Core to: BQ Core to EOH 136m.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS	
84	100	AEOLIAN SAND	From 84m. Pale grey. fresh. fine to medium quartz sand, with soft carbonaceous clay pellets, from 88-100m.	84-88	3	1
				88-92	3	1
				92-96	*	1
				96-100		18
100	124	LIGNITE.		100-104		3
				104-108		3
				108-112		2
	112		Dark-grey, gritty clayey lignite, with fine grained pyrite aggregations locally.	112-116		2
				116-120		3
				120-124		9
124	136	SAND	Grey, angular, coarse to very coarse grained quartz sand. occasional muscovite? mica flecks	124-128		2
				128-132		2
				132-136		4
			Borehole abandoned at 136m in SAND Sampled as follows - X0920 0-24m X0921 24-36 X0922 36-72 X0923 72-84 X0924 84-100 X0925 100-112 X0926 112-124 X0927 124-136. * Bison U/S.		magnetic susceptibility $\times 10^{-5}$ SI ↑ Bison JH8 (Field Readings x 8π) ↑ Field Readings ÷2)	

SCALE 1:400 GEOLOGIST TCG

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.2
Page 1 of 2

PROJECT TARCOOLA/BARTON AREA BARTON H53-9, 5436-1 Drillhole type Rotary/Percussion

CO-ORDS 590219 DEC^LN VERTICAL AZIMUTH — LOC. 100S/200W DH No W03 DH-2

DATE COMMENCED 6/10/1982 DATE COMPLETED 7/10/1982 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to. NQ Core to. BQ Core to. EOH 148.m.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS Bison	JHP
0	88	AEOLIAN SAND	Orange-red, fine to very-coarse grained quartz sand, with minor calcrete bands.	0-4	4.4	4
				4-8	4.1	5
				8-12	2.6	2
				12-16	3.1	2
				16-20	4.9	2
			Clean, white-buff-yellow, fine to coarse grained quartz sand, with minor calcrete bands.	20-24	5.7	2
				24-28	3.4	1
				28-32	3.6	2
				32-36	4.6	3
				36-40	2.6	2
				40-44	2.2	2
				44-48	2.1	1
				48-52	3.8	2
				52-56	2.5	2
				56-60	2.6	2
				60-64	2.1	1
			Orange-red, medium to coarse grained, ferruginous quartz sand.	64-68	2.4	2
				68-72	2.3	2
				72-76	2.0	1
				76-80	2.2	1
			White-buff, medium to coarse grained quartz sand.	80-84	2.0	1
				84-88	2.1	1

SCALE 1:400 GEOLOGIST TGD/MJD DATE 6/10/1982

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.2
Page 2 of 2

PROJECT TARCOOLA / BARTON AREA BARTON H53-9, 5436-1 Drillhole type Rotary/Percussion

CO-ORDS 590219 DEC^LN VERTICAL AZIMUTH – LOC. 10S/200W DH No W03 DH-2

DATE COMMENCED 6/10/1982 DATE COMPLETED 7/10/1982 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to HQ Core to NQ Core to BQ Core to EOH 148 m.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS Bilton JH-8
0	88	AEOLIAN SAND		E4-88	
88	96	LIGNITIC SAND	Dark-grey, medium to coarse grained, lignite-stained quartz sand.	88-92	2.0 1
				92-96	1.7 1
96	112	LIGNITE	Interbedded carbonaceous silts + lignite. Hole made water ~ 112m.	96-100	4.4 1
				100-104	2.2 1
				104-108	3.7 1
				108-112	3.2 1
112	124	CARBONACEOUS CLAY	Grey-black, gritty carbonaceous clay.	112-116	3.2 1
				116-120	4.7 2
				120-124	2.2 1
124	132	MICACEOUS QUARTZ SAND	Grey; coarse to very-coarse grained, angular, micaceous quartz sand.	(124-128) 124-132	2.5 1
				(128-132)	3.0 3
132	148	GRANITIC SAND	Dark-grey, coarse to granular, angular, quartz-rich sand: biotite + muscovite + feldspar to ~7%. Hard, weathered granitic bedrock from ~ 136 m.	132-136	1.6 1
				136-140	2.2 2
				140-144	2.4 1
				144-148	2.0 1
		Samples:	Drill Hole abandoned at 148m: could not be cased + hammered.		
			X0958; 0-20m	X0963; 96-112m	
			X0959; 20-64m	X0964; 112-124m	
			X0960; 64-80m	X0965; 124-132m	
			X0961; 80-88m	X0966 to X0969 } 132-148m	
			X0962; 88-96m		

SCALE 1:400 GEOLOGIST T.C.B / M.H.D DATE

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.2
Page 1 of 2

PROJECT TARCOOLA/BARTON AREA BARTON H53-9, 5436-1 | Drillhole type Rotary/Percussion

CO-ORDS 596215 DEC^LN VERTICAL AZIMUTH – LOC 550N/100W | DH No WD5 DH-1

DATE COMMENCED 7/10/1982 DATE COMPLETED DRILLED BY P NITSCHKE DRILL RIG BOURNE 2000

Non Coring to HQ Core to NQ Core to BQ Core to EOH

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS Bum	RESULTS DH-8
0	76	AEOLIAN SAND	Orange-red, silty, fine to coarse grained ferruginous sand, with calcrete band.	0-4	5.1	7
				4-8	3.2	2
				8-12	2.6	1
				12-16	3.4	2
			Clean, white-buff, fine to very coarse grained quartz sand, with minor calcrete bands.	16-20	1.9	1
				20-24	1.7	1
				24-28	2.3	2
			Sampling: X0970 0-16m	28-32	1.6	1
			X0971 16-60	32-36	1.9	1
			X0972 60-64	36-40	3.2	3
			X0973 64-76	40-44	2.2	1
			X0974 76-92	44-48	1.4	1
			X0975 92-104	48-52	1.9	1
			X0976 104-112	52-56	1.7	1
			X0977 112-128	56-60	1.8	1
			X0978 128-144	60-64	0.4	0
			X0979 144-148	64-68	2.2	2
				68-72	2.0	1
				72-76	2.5	2
76	92	CLAYEY, LIGNITIC SAND	Orange to dark red-brown, fine to medium grained quartz sand, with minor ferricrete + silcrete bands. Clayey, lignitic sand from 84m.	76-80	2.7	2
				80-84	2.3	2
				84-88	2.7	2

SCALE 1:400 GEOLOGIST TSB/MHP DATE 21/10/1982

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.2
Page 2 of 2

PROJECT TARCOOLA/BARTON AREA BARTON H53-9, 5436-1 Drillhole type Rotary/Percussion

CO-ORDS 596215 DEC[LN] VERTICAL AZIMUTH - LOC 550N/100W DH No WDS DH-1

DATE COMMENCED 7/10/1982 DATE COMPLETED DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

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

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS Bism	JH-3
76	92	CLAYEY LIGNITIC SAND		84-88		
				88-92	2.4	2
92	104	SANDY LIGNITE	Grey-black, sandy, carbonaceous silts + lignite. Hole making water at ~96 m.	92-96	2.2	1
				96-100	4.1	2
				100-104	2.5	2
104	112	LIGNITIC CLAY	Dark-grey, gritty, lignitic, carbonaceous clay.	104-108	2.3	3
				108-112	4.9	5
112	128	SERICITE CLAY	White-blue-grey, gritty, sericite clay.	112-116	5.9	9
				116-120	5.1	7
				120-124	6.0	10
				124-128	6.1	8
128	144	CHLORITE CLAY	Olive-green to brown-red, gritty, sericitic chlorite clay.	128-132	7.1	11
				132-136	8.0	17
				136-140	5.8	12
				140-144	5.6	9
144	148		Deep dark-green, gritty; sericitic chlorite clay: sericite ~10%. Weathered bedrock ~146 m? chlorite schist?	144-148	5.8	11
			BH still in progress 12/10/82 HR. Abandoned at 148 m Unable to force casing, nor able to get returns			

Bism JH3 Field Readings: x10[-6] x10[-5] rgs SI

SCALE 1: [illegible] GEOLOGIST: [illegible]

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Appendix 10.2
Page 1 of 2

DRILLHOLE LOG SUMMARY SHEET

PROJECT TARWOOLA / BARTON AREA BARTON HSS 1, 5436-1. Drillhole type Rotary Percussion

CO-ORDS 595215 DEC LN — AZIMUTH VERTICAL LOC OW / ISCOS DH No WO6 DH1

DATE COMMENCED 21-9-82 DATE COMPLETED 23-9-82 DRILLED BY P. NITSCHKE DRILL RIG BOMAZINE 2000

Non Coring to — HQ Core to — NQ Core to — BQ Core to — EOH 152m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS	
0	98	AEOLIAN SAND	Orange-brown, medium to coarse grained ferruginous quartz sand, with some calcrete and silcrete			
				0-4	12	
				4-8	11	
				8-12	12	
				12-16	11	
			At 20m, becoming clean, pale grey coarse to very coarse, quartz sand + minor silcrete	16-20	6	3
				20-24	5	20
				24-28	4	
				28-32	2	
				32-36	3	
				36-40	2	11
			Including minor yellow clay 48-52m	40-44	2	4
				44-48	3	
			At 52m, yellow white, fine to medium grained, clean quartz sand	48-52		
				52-56		750
				56-60	12	5
				60-64	4	8
				64-68	4	7
			From 72-88m, buff-pink ferruginous medium-coarse grained quartz sand Minor white clay 80-84m	68-72	6	12
				72-76	2	2
				76-80	6	4
				80-84	4	6

SCALE 1:400 GEOLOGIST T.F.B. DATE 22-11-82

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 2 of 2

PROJECT TARCOOLA | BARTON AREA BARTON H53 -1, 5936-1 Drillhole type Rotary Percuss.

CO-ORDS 595215 DEC^LN _ AZIMUTH VERTICAL LOC. CW/1500-S DH No WCL DH1.

DATE COMMENCED 21-9-82 DATE COMPLETED 23-9-82 DRILLED BY P NITSCHKE DRILL RIG BOWNE 2000

Non Coring to: HQ Core to: NQ Core to: BQ Core to. EOH 152m.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS	
0	98	AEOLIAN SAND	88-98m Clean, pale grey medium to coarse grained quartz sand, containing some lignite (15%).	84-88	3	4
				88-92	3	7
				92-96	4	4
98	132	LIGNITE	Lignite and carbonaceous silt.	96-100	10	10
				100-104	7	5
				104-108	13	20
				108-112	6	10
				112-116	4	3
			Becoming clayey at 120-132m.	116-120	4	5
				120-124	1	
				124-128	6	
132	148	CLAY	Gritty white sericitic clay containing quartz and mica flakes, and some lignite at top. Some pyrite(?) at base.	128-132	5	5
				132-136	4	7
				136-140	11	5
				140-144	24	47
148	152	WEATHERED GRANITE	Muscovite - sericite - quartz weathered granite.	144-148	36	90
				148-152	18	25
			Borehole completed at 152m in WEATHERED GRANITE			
			Sampled at 4m intervals 0-152m X0822 - X0859.			

RJS x10^-6 SI units x10^-5 magnetic susceptibility

SCALE 1 GEOLOGIST

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DRILLHOLE LOG SUMMARY SHEET

Appendix 10.2
Page 1 of 2

PROJECT	TARCOOLA/BARTON	AREA	BARTON HS3-9, 5436-1
CO-ORDS	595215	DEC^{LN}	VERTICAL
AZIMUTH	–	LOC CM/1400S	
Drillhole type	Rotary Percussion		
DH No	WC6 DH2A		
DATE COMMENCED	23-9-82	DATE COMPLETED	24-9-82
DRILLED BY	P NITSCHKE	DRILL RIG	BOYLE 2000
Non Coring to		HQ Core to	
NQ Core to		BQ Core to	
EOH	104m		

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	96	AEOLIAN SAND	Red, ferruginous, medium to coarse grained quartz sand.		Magnetic Susceptibility Results as for WC6, DH2B.
			Minor calcrete 8-12m		
			At 16m, changes to clean, pale grey coarse to very coarse grained quartz sand.		
			From 52m, frequent colour variations buff-yellow-pink-grey-white and minor clayey horizons		

SCALE 1:400 GEOLOGIST

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 2 of 2

PROJECT TARCOOLA/BARTON AREA BARTON H53·9 5436-1 Drillhole type Rotary Percuss.

CO-ORDS 595215 DEC^{LN} VERTICAL AZIMUTH - LX cm/1400S DH No WO6 DH2A

DATE COMMENCED 23-9-82 DATE COMPLETED 24-9-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to NQ Core to: BQ Core to EOH 104m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
86	96	AEOLIAN SAND		Magnetic Susceptibility Results as for WO6, DH2B	
96	104	LIGNITE.	Lignite and carbonaceous silt.		
			Borehole abandoned at 104m in LIGNITE, due to caving overnight Samples at 4m intervals 0-104m X0860 - X0585		

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DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA/BARTON AREA BARTON H-53-1, 5436-1. Drillhole type Rotary Percussion

CO-ORDS 595215 DEC^LN — AZIMUTH VERTICAL LOC. GW/1400S DH No WC6 DH2B.

DATE COMMENCED 24-9-82 DATE COMPLETED 24-9-82 DRILLED BY P. NITSCHKE DRILL RIG BECKNE 2000

Non Coring to: HQ Core to: NQ Core to: BQ Core to: EOH 152m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS	
0	96	AEOLIAN SAND	Red, ferruginous medium-coarse grained quartz sand.	0-4	12	50
			Minor calcrete 8-12m	4-8	8	9
				8-12	10	10
			At 16m, changes to clean pale grey coarse to very coarse grained quartz sand.	12-16	5	5
				16-20	6	2
				20-24	14	-
				24-28	3	5
				28-32	2	5
				32-36	2	3
				36-40	3	4
				40-44	3	13
				44-48	2	12
			From 52m, colour variations buff. pink-yellow-grey white and minor clayey horizons	48-52	2	15
				52-56	11	50
				56-60	2	3
				60-64	1	1
				64-68	2	2
				68-72	8	4
				72-76	2	-
				76-80	5	3
				80-84	16	3

SCALE 1:400 GEOLOGIST ITGR

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DRILLHOLE LOG SUMMARY SHEET

Appendix 10.2
Page 2 of 2

PROJECT	TARLOOLA/BARTON	AREA	BARTON HS3-9, 5436-1
CO-ORDS	595215	DEC^{LN} —	AZIMUTH VERTICAL
Drillhole type	Rotary Percussion		
LOC. CW/4COS		DH No	W06 DH2B
DATE COMMENCED	24-9-82	DATE COMPLETED	24-9-82
DRILLED BY	P NITSCHKE	DRILL RIG	BEURNE 2000
Non Coring to:		HQ Core to:	
NQ Core to:		BQ Core to:	
EOH	152m.		

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS	
c	96	AEOLIAN SAND		84-88	4	8
				88-92	3	3
				92-96	4	2
96	128	LIGNITE.	Lignite and carbonaceous silt	96-100	4	6
			Locally pyritic - fine grained pyrite	100-104	19	35
				104-108	3	4
				108-112	5	2
				112-116	8	5
				116-120	10	5
			Becoming clayey towards base	120-124	7	12
				124-128	6	2
128	140	LIGNITE and CLAY.	50% lignite and 50% yellow-white clay. Including large quartz grains at base.	128-132	3	5
				132-136	6	4
				136-140	3	4
140	152	WEATHERED GRANITE.	Muscovite - sericite - quartz, gritty clay	140-144	6	4
				144-148	7	5
				148-152	13	14
			Borehole completed at 152m in WEATHERED GRANITE.			51 cgs units $\times 10^{-6}$ $\times 10^{-5}$ magnetic susceptibility
			Samples at 4m intervals 104-152m X0886 - X0897.			

SCALE

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 1 of 2

PROJECT TARCOOLA / BARTON . AREA BARTON H53-9, 5436-1 | Drillhole type Rotary Percussion

CO-ORDS 596214 DEC LN – AZIMUTH VERTICAL · LOG SOW | S.S | DH No Anom. No. DH1.

DATE COMMENCED 8-9-82. DATE COMPLETED 13-9-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000.

Non Coring to: HQ Core to. NQ Core to: BQ Core to. EOH 114m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	68	AEOLIAN SAND	Oxidised, fine to medium grained, unconsolidated quartz sand. Mono-mineralic, well rounded quartz. Becoming fresh, pale grey unweathered sand at 16m. Variable grain size, but fining considerably at 44m, and containing thin lenses(?) pale, grey fine silt from 48m. Minor colour variations also reflect amount of oxidation. 56-60m. Rare flakes of muscovite and larger quartz grains in predominantly yellow/buff sand	0-2	20
				2-4	44
				4-6	20
				6-8	20
				8-10	13
				10-12	20
				12-14	17
				14-16	11
				16-18	11
				18-20	7
				20-22	9
				22-24	12
				24-26	11
				26-28	7
				28-30	
				30-32	11
				32-36	13
				36-40	13
				40-44	21
				44-48	17
				48-52	20
				52-56	14
				56-60	19
				60-64	23
				64-68	18
68	76	FERRICRETE.	Heavily ferruginised, earthy red, medium to coarse grained, well sorted quartz sand. Locally silcreted, limonitic material.	68-72	9
				72-76	20
76	84	CLAYEY SAND.	Grey, sericitic, coarse quartz sand and carbonaceous silt	76-80	17
				80-84	11
84	88	LIGNITE.		84-88	15

SCALE 1:

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DRILLHOLE LOG SUMMARY SHEET

Appendix 10.2
Page 1 of 2

PROJECT TARCOOLA / BARTON AREA BARTON HS3-9, 5436-1. Drillhole type Rotary Percussion

CO-ORDS 596214 DEC^{LN} - AZIMUTH VERTICAL LOC SCH/SOS DH No WO8 DHH

DATE COMMENCED 8-9-82 DATE COMPLETED 13-9-82 DRILLED BY P. NITSCHKE. DRILL RIG BOURNE 2000.

Non Coring to: HQ Core to NQ Core to BQ Core to EOH 114m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
84	88	LIGNITE.	Black carbonaceous silt and lignite	88-92	6
88	114	CLAY.	Grey sericitic clay, micaceous. Locally gritty.	92-96	11
				96-100	14
			Borehole abandoned at 114m. Hole caving unable to produce returns, casing jammed		cgs x10^{-6} magnetic susceptibility
			Sampled at 2m intervals 0-26m X0663 - X0675 X0676, 26-30m X0677, 30-32 Sampled at 4m intervals 32-112m X0678 - X0697 X0698, 112-114m		

SCALE 1:100 GEOLOGIST TCB

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DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA/BARTON AREA BARTON MS3-9 5436-1. Drillhole type Rotary Percussion

CO-ORDS 596214 DEC LN VERTICAL AZIMUTH – Inc. 250W/25 DH No WCB DH3A.

DATE COMMENCED 14-9-82 DATE COMPLETED 14-9-82 DRILLED BY P NITSCHKE DRILL RIG BOLENE 2000

Non Coring to: HQ Core to NQ Core to BQ Core to EOH 72m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	64	AEOLIAN SAND	Typically medium to very coarse grained, rounded, moderately to well sorted quartz sand. Oxidised to 8m. Calcareous cement to 12m. Otherwise, white-grey, locally yellow and clayey from 36m.		
64	72	FERRICRETE.	Heavily ferruginised, earthy-red, medium to coarse grained quartz sand. Locally clayey.		
			Borehole abandoned at 72m in FERRICRETE. Lost all water returns at 72m Samples at 4m intervals 0-72m X0699 - X0716		

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.. Page | of 3

PROJECT TARCOOLA | BARTON AREA BARTON HS3-9, 5436-1 Drillhole type Rotary Percussio

CO-ORDS 596214 DEC^{LN} – AZIMUTH VERTICAL LOC 25cm/25cS DH No W08 DH3B.

DATE COMMENCED 13-9-82 DATE COMPLETED 18-9-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to. NQ Core to: BQ Core to EOH 200m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	64	AEOLIAN SAND	Typically medium to very coarse grained, rounded, moderately to well sorted quartz sand. Oxidised to 8m. Calcareous cement to 12m. Otherwise white-grey, locally yellow and clayey from 36m.	12-16	2
64	72	FERRICRETE	Heavily ferruginised, earthy-red, medium to coarse grained quartz sand, locally clayey		
72	76	CLAYEY SAND	Grey-white clayey, coarse quartz sand		
76	88	LIGNITE	Black, carbonaceous coarse silt and lignite		

SCALE 1:4m GEOLOGIST TCA[illegible] DATE [illegible]

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Appendix 10. Page 2 of 3

DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA/BARTON AREA BARTON HS3-9, S436-1 Drillhole type Rotary Percuss

CO-ORDS 596214 DEC^{LN} — AZIMUTH VERTICAL LOC. 250W/250N DH No WCB DH3B

DATE COMMENCED 13-9-82 DATE COMPLETED 18-9-82 DRILLED BY P. NITSCHKE DRILL RIG BARNE 2000

Non Coring to: HQ Core to: NQ Core to: BQ Core to: EOH 200m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
58	96	GRITTY LIGNITE.	Lignitic material, containing medium to coarse quartz sand and ~30% grey sericitic clay.	96-100	5
96	116	CLAY	Grey-white sericitic clay, containing medium to coarse grained quartz sand, lignite and chlorite at base.		
116	200	GRANITE.	Grey, cream-buff and pink, medium to coarse grained granite. Predominantly quartz, plagioclase, orthoclase, biotite, muscovite, chlorite.	116-118	7
				118-120	4
				120-122	6
				122-124	5
				124-126	3
				126-128	8
				128-130	3
				130-132	4
				132-136	6
				136-140	5
				140-144	7
				144-148	4
				148-152	5
				156-160	2
				160-164	4
				164-168	6
				168-172	3
				172-176	4

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix 10.
Page 3 of 3

PROJECT TARCOOLA/BARTON AREA BARTON HS3-9, 5436-1. Drillhole type Rotary Percussio

CO-ORDS 596214 DEC^{LN} - AZIMUTH VERTICAL LOC 250N/250S DH No WO5 DH3B

DATE COMMENCED 13-9-82 DATE COMPLETED 18-9-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to: HQ Core to NQ Core to: BQ Core to EOH 200m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULTS
116	200	GRANITE.	As above.		MAG Suscc
				176-180	3 12
				180 184	4
				184-188	6
				188-192	5
				192-196	2
				196-200	4
			Borehole completed at 200m in GRANITE Sampled at 4m intervals 72-120m:- X0717 - X0729. Sampled at 2m intervals 120-132m:- X0730 - X0735 Sampled at 4m intervals 132-200m:- X0736 - X0752.		cgs SI x10^{-6} units x10^{-3} magnetic susceptibility

APPENDIX II

7th Quarter to 12 January, 1983.

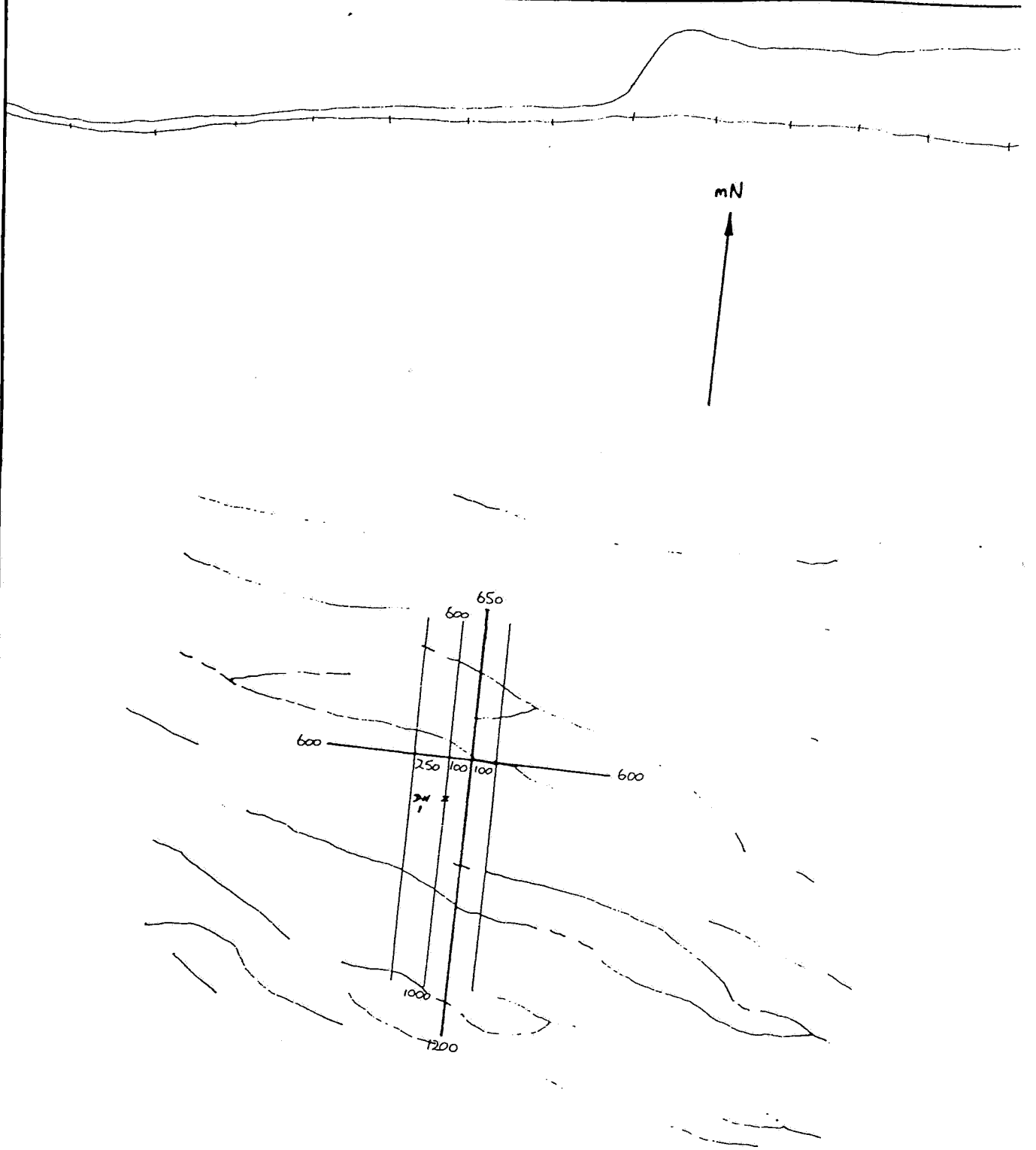
Ground magnetic data.

Drill hole logs.

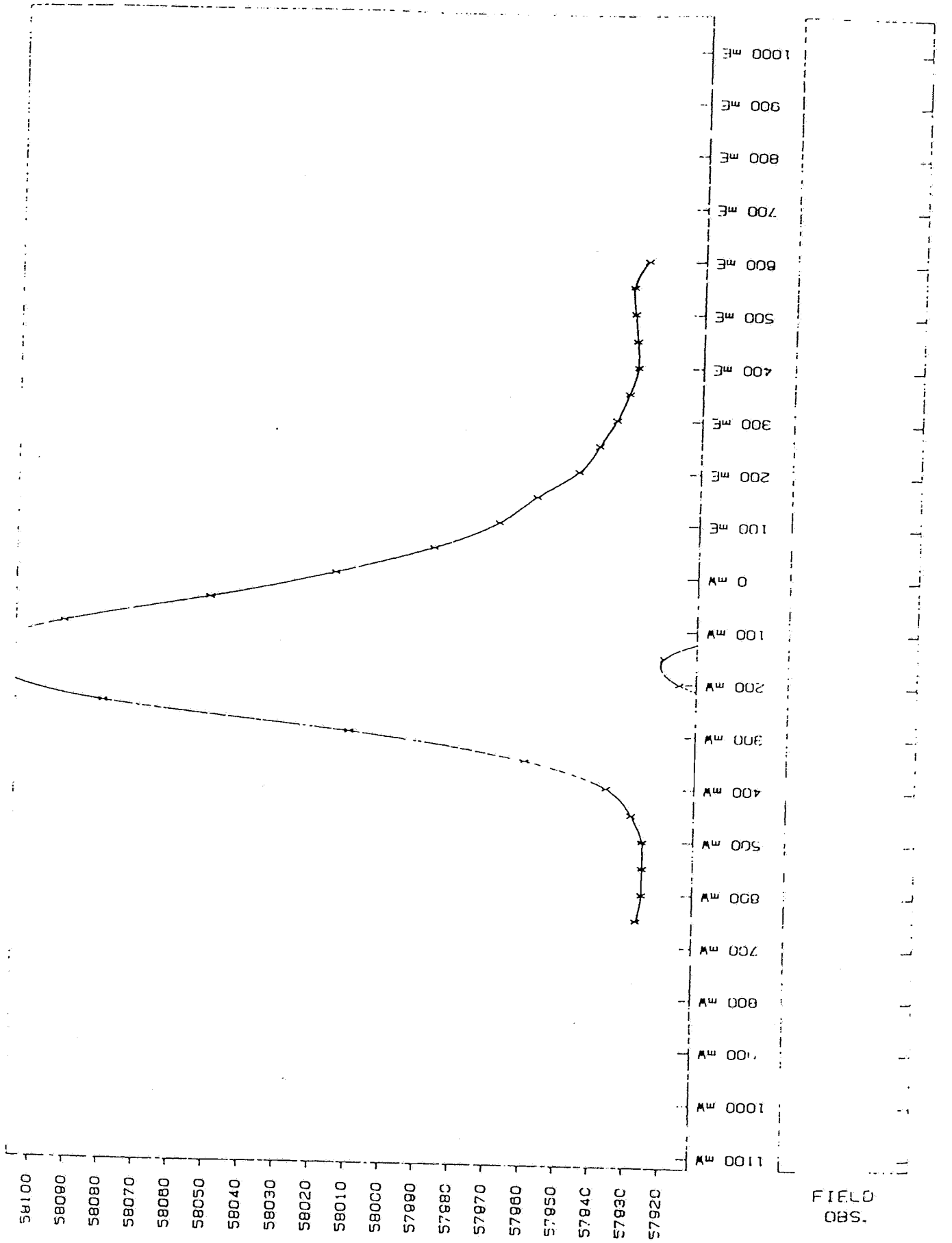
APPENDIX II

GROUND MAGNETIC SURVEY DATA : MAP SHEET 5436-1

MAP	ANOMALY	LINES
SEL G29	E07	Location Map
G29a	E07	0N
G29b	E07	0W
G30	E10	Location Map
G30a	E10	0N
G30b	E10	0E
G30c	E10	100W
G31	W07	Location Map
G31a	W07	0N
G31b	W07	300W
G31c	W07	300E
G32	W09	Location Map
G32a	W09	0N
G32b	W09	0W



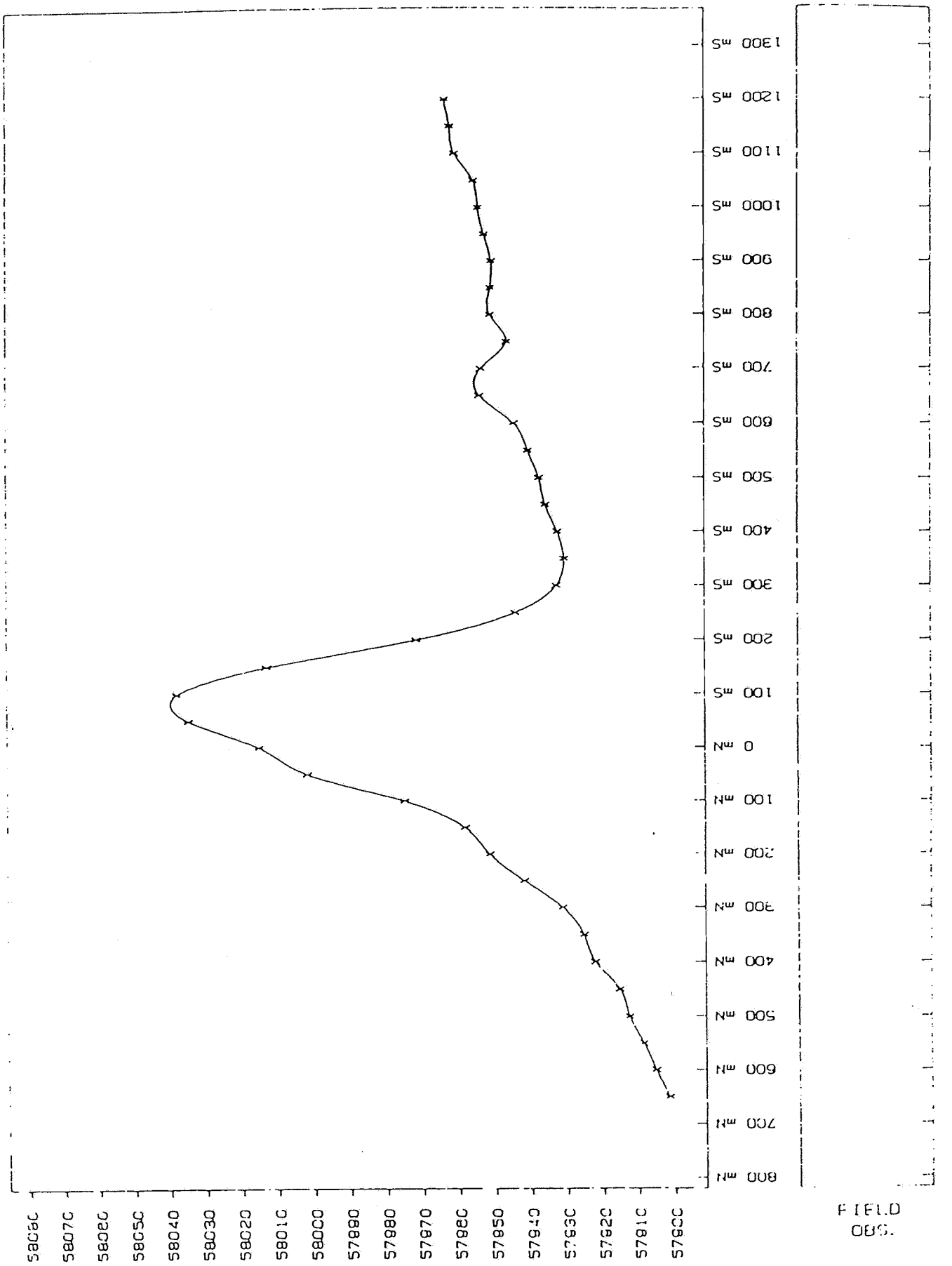
STOCKDALE PROSPECTING LIMITED			
LOCATION ANOMALY 5436-1, E07.			
A.M.G. HS3-9, 597210.			
AIR PHOTO RUN 5/37			
Compiled MJD	Drawn	Date	Scale



SURVEY DATE : 28/07/82
LINE & FID. NO. : 1423.0S 1490
LINE DIRECTION : 0 DEG.
HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 15 nT/CM
PEAK MAG. READ. : 58115.5 nT

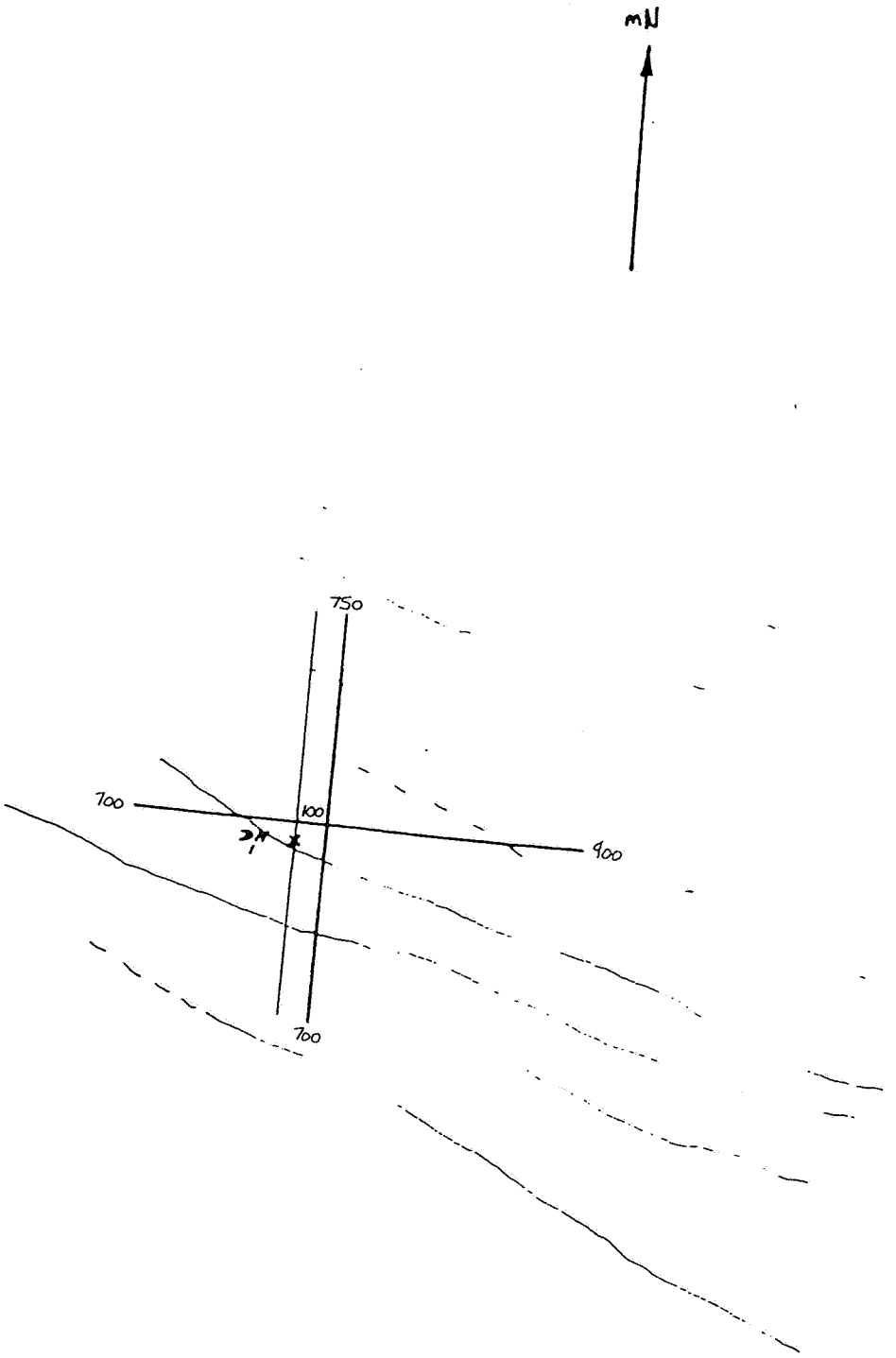
MAGNETIC PROFILES (nT)
BARTON 5436-1
ANOM. E-07
LINE ON

GPL

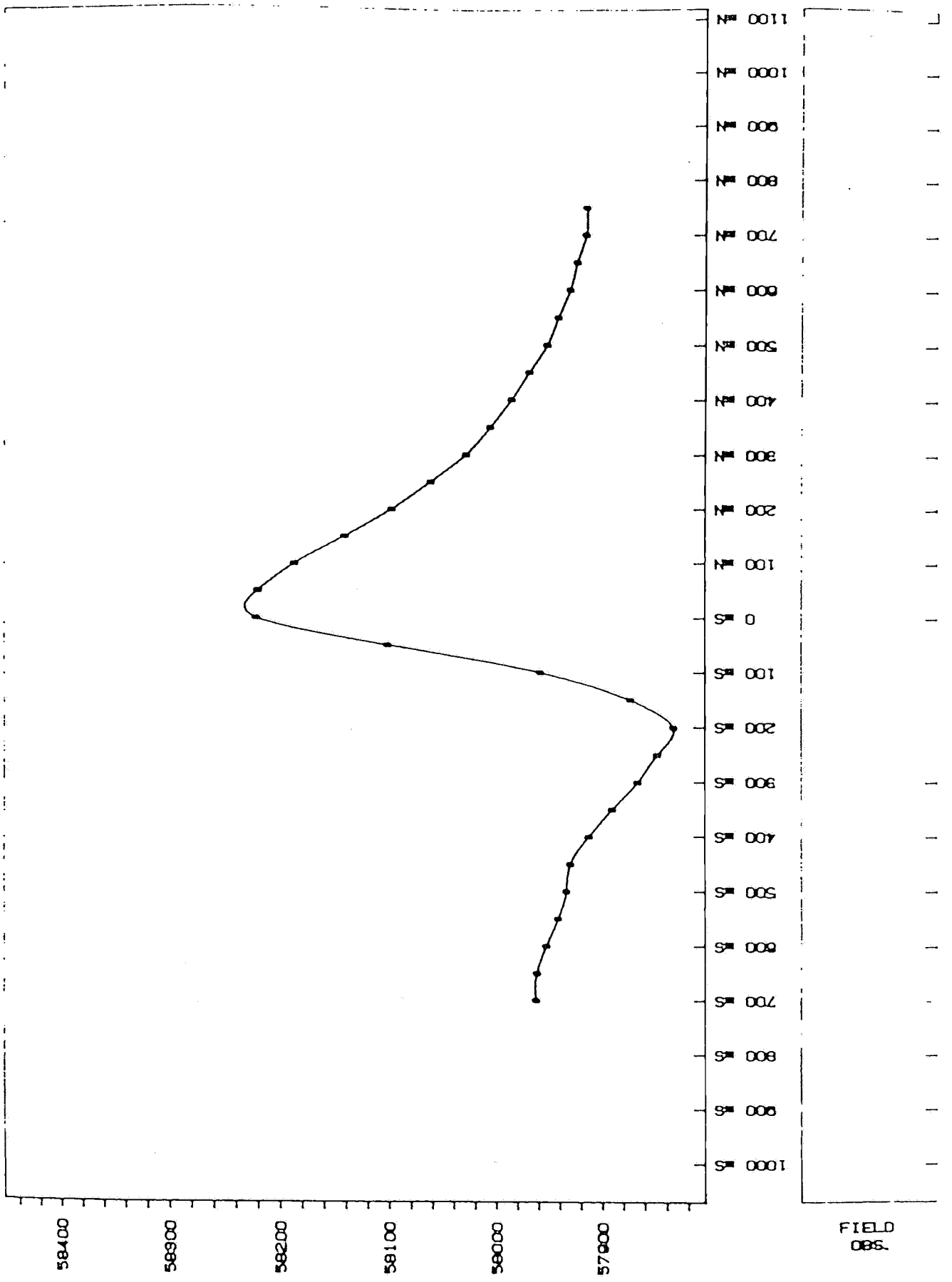


SURVEY DATE : 28/07/82
LINE & FID. NO.: 1423.0S 1490
LINE DIRECTION : 0 DEG.
HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 15 nT/CM
PEAK MAG. READ. : 58037.9 nT

MAGNETIC PROFILES (nT)
BARTON 5436-1
ANOM. E-07
LINE 0W



STOCKDALE PROSPECTING LIMITED				
LOCATION ANOMALY 5436-1, E10. A.M.G. H53-9, 604209. AIR PHOTO RUN 5/33				
Compiled MHP	Drawn	Date 14/10/82	Scale 1:25,000	SEL G-30

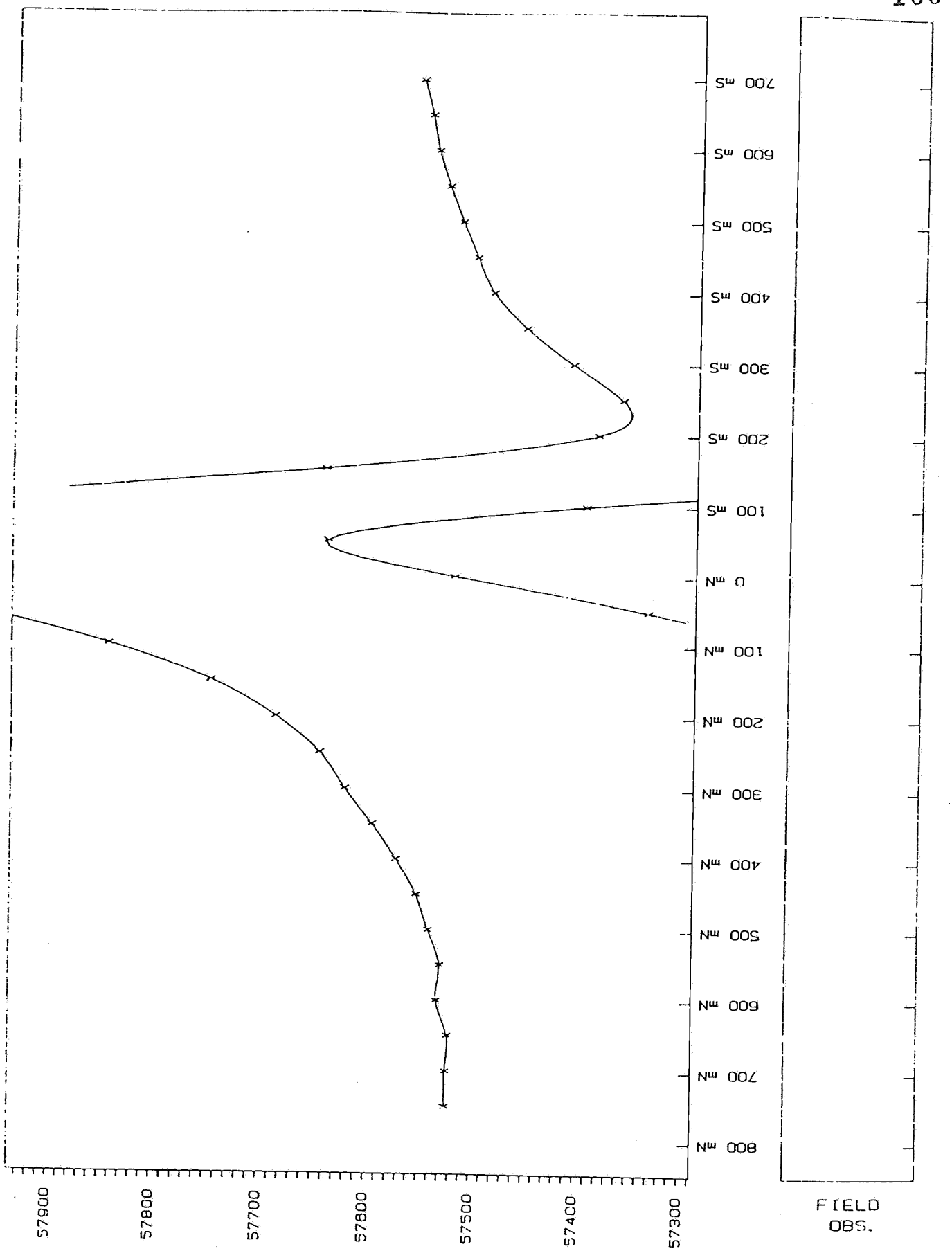


HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 50 nT/CM
LINE AZIMUTH : N
PEAK MAG. READ. : 58229 nT
MAP SHEET : H59-Q
ANG OF ON/OE : 80+2mE86120mN
LINE & FID. NO. : 1401.0S 950
SURVEY DATE : 23/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E10
LINE OE

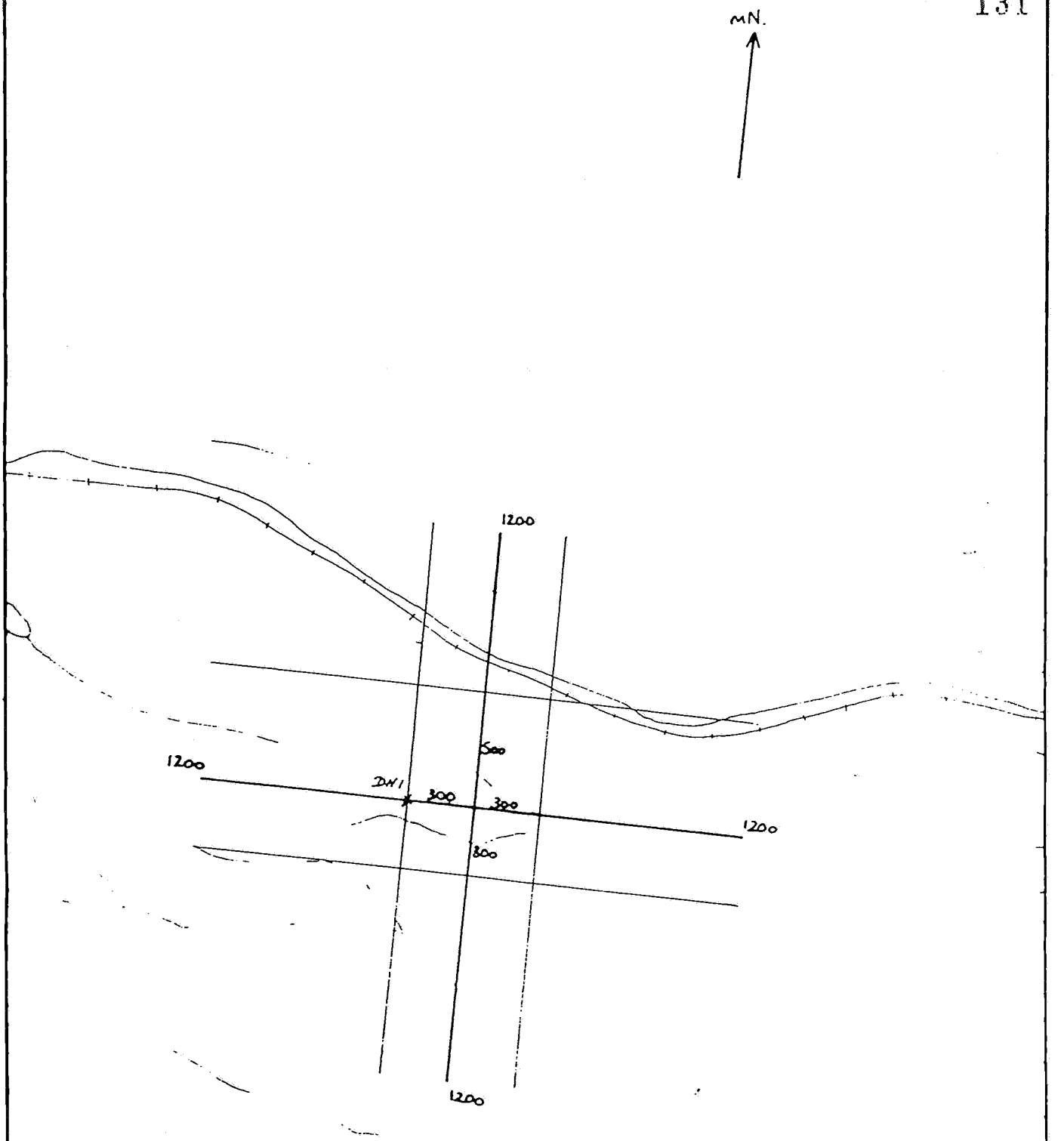
Compiled	
Drawn	
Date	
Scale	
Revised	SELG30b



SURVEY DATE : 14/10/82
LINE & FID. NO. : 1401.0S 950
LINE DIRECTION : 0 DEG.
HORIZ. SCALE : 1: 7500
VERTICAL SCALE : 50 nT/CM
PEAK MAG. READ. : 58290 nT

MAGNETIC PROFILES (nT)
BARTON 5436-1
ANOM. E-10
LINE 100W

S.P.L.



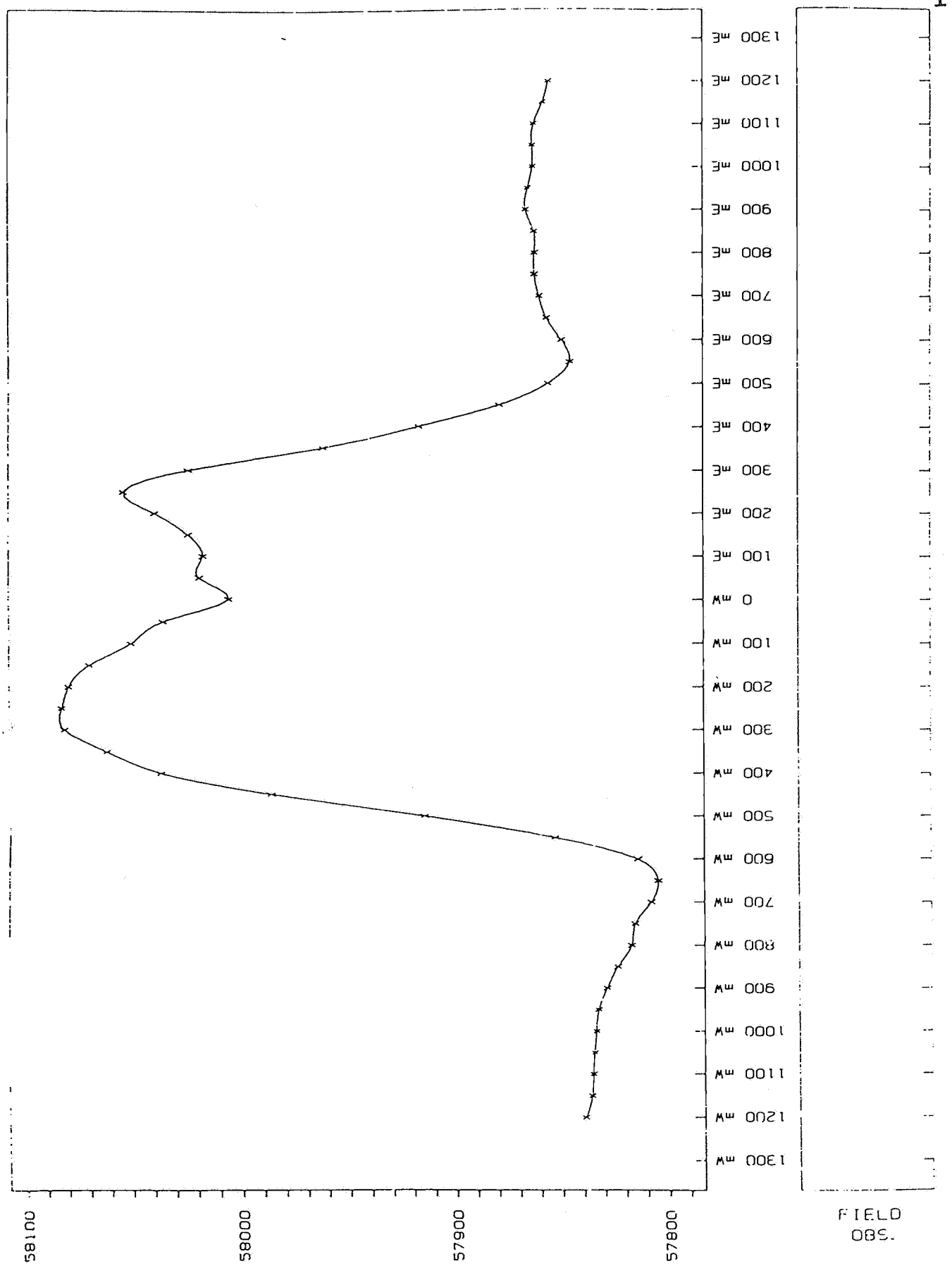
STOCKDALE PROSPECTING LIMITED

LOCATION ANOMALY S436-1, W07

A.M.G. HS3-9, 592213.

(AIR PHOTO RUN 5/37).

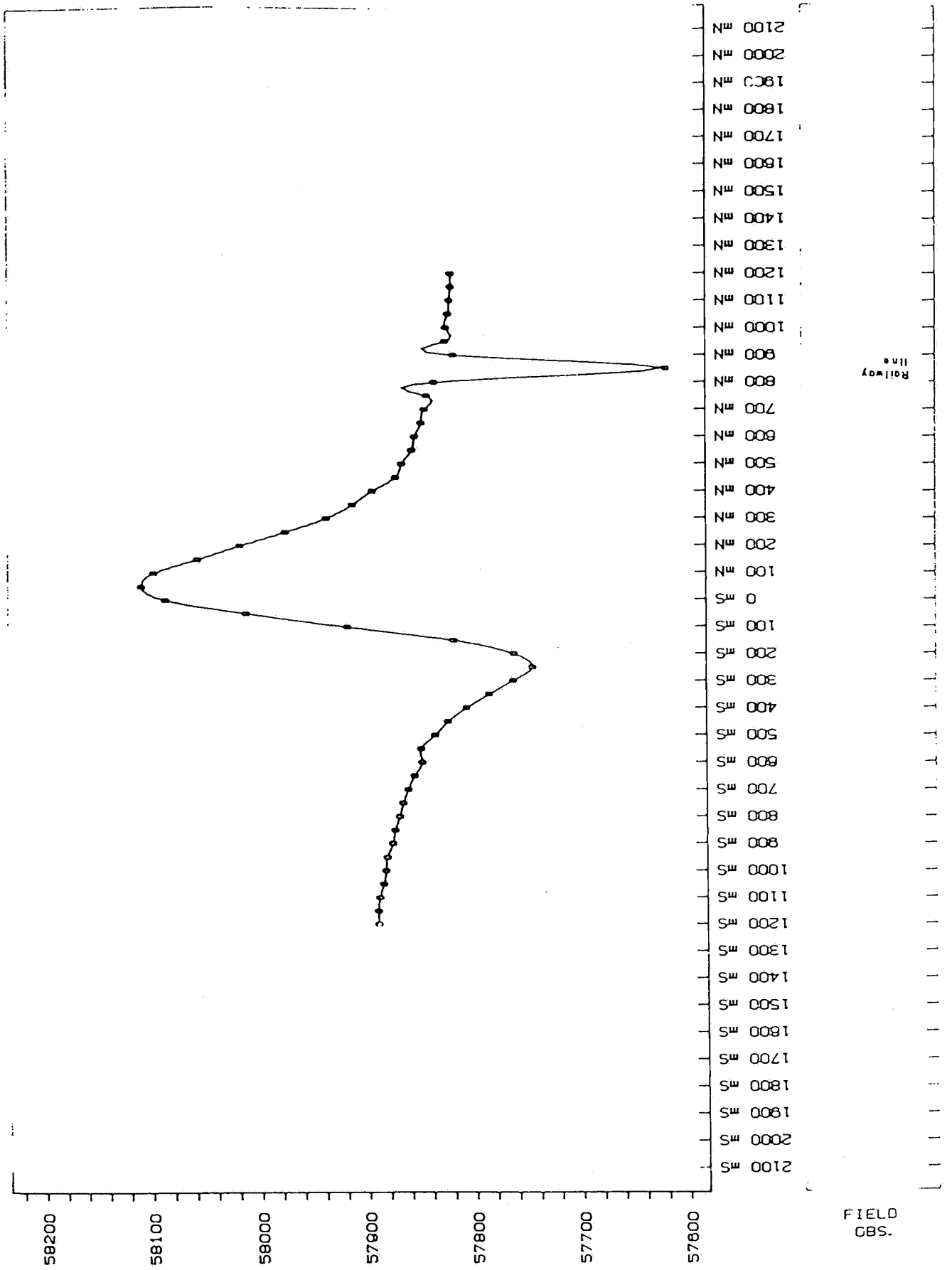
Compiled	Drawn	Date	Scale	
TSB		13-10-81	1:25,000	SEL G 31



SURVEY DATE : 23/07/82
LINE & FID. NO. : 1440.4S 5614
LINE DIRECTION : 0 DEG.
HORIZ. SCALE : 1: 12500
VERTICAL SCALE : 25 nT/CM
PEAK MAG. READ. : 58083.5 nT

MAGNETIC PROFILES (nT)
BARTON 5436-1
ANOM. W-07
LINE ON

S.P.L

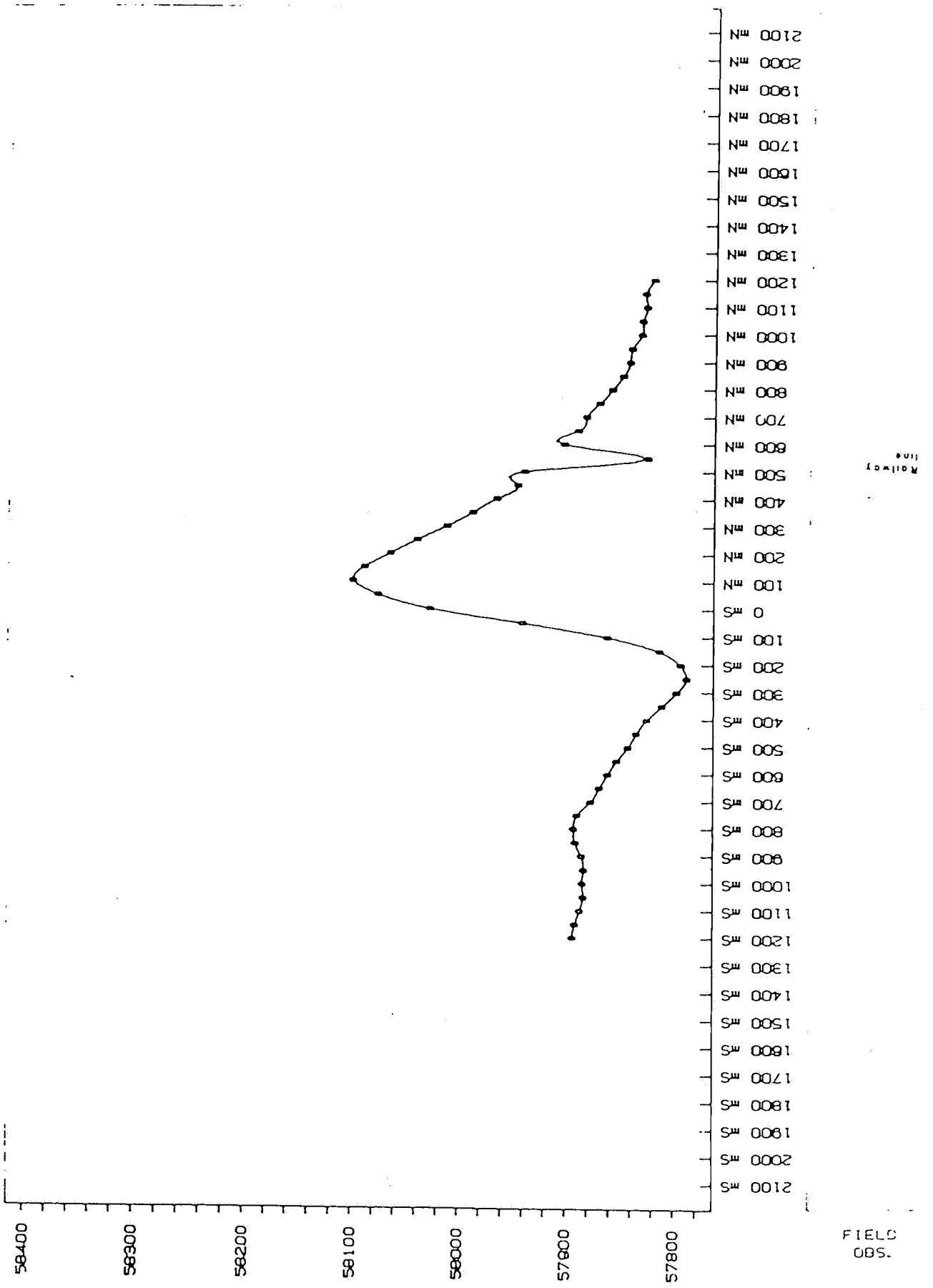


HORIZ. SCALE	:	1: 20000
VERTICAL SCALE	:	50 nT/CM
LINE AZIMUTH	:	N
PEAK MAG. READ.	:	58108.5 nT
MAP SHEET	:	H53-9
AMG OF ON/OE	:	2925mE66150mN
LINE & FID. NO.	:	1440.4S 5814
SURVEY DATE	:	19/08/82

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MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/W07
LINE 300W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL 1732	

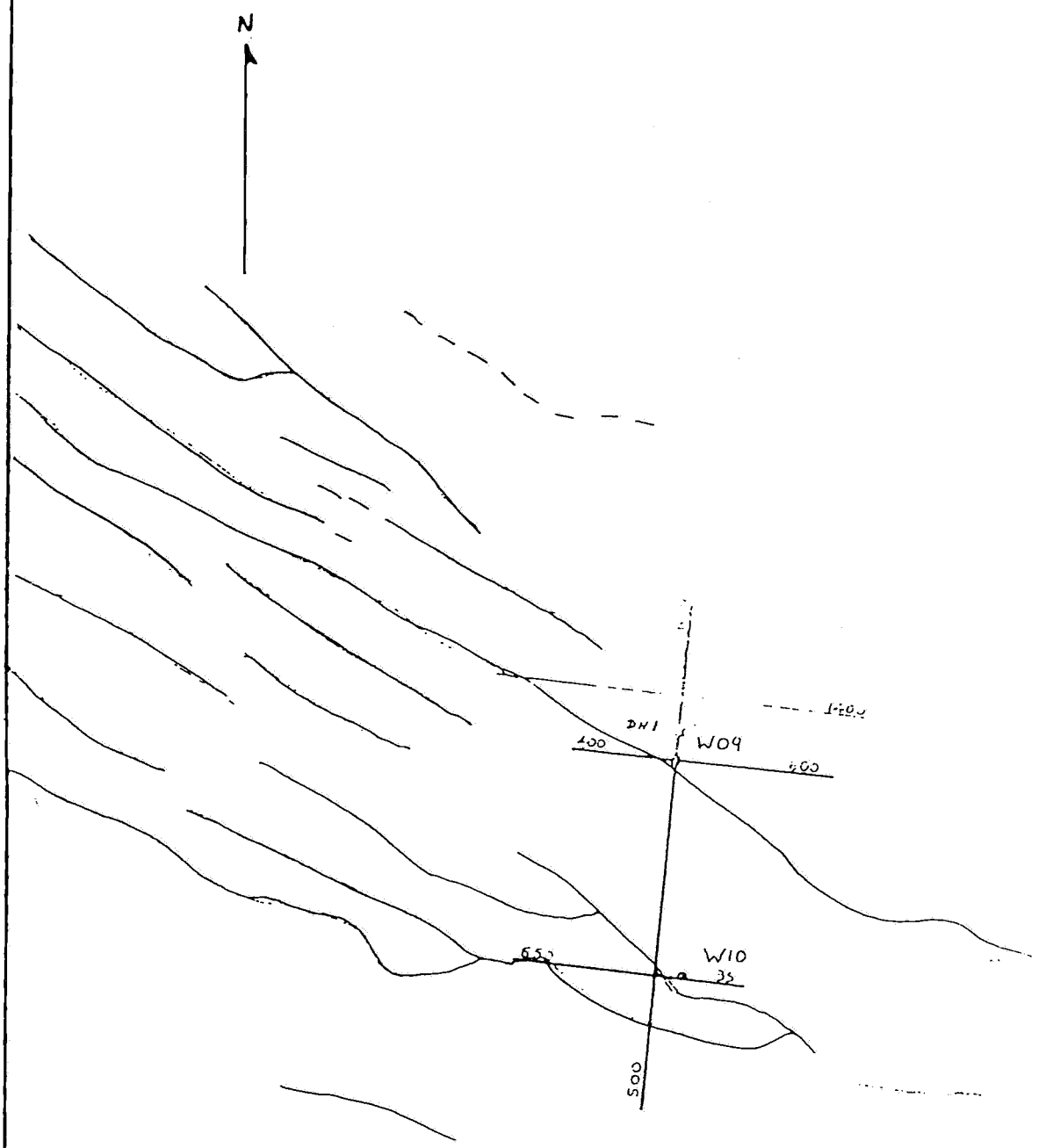


HORIZ. SCALE	:	1: 20000
VERTICAL SCALE	:	50 nT/CM
LINE AZIMUTH	:	N
PEAK MAG. READ.	:	58099.8 nT
MAP SHEET	:	H53-9
AMG OF ON/OE	:	2025mE66150mN
LINE & FID. NO.	:	1440.4S 5814
SURVEY DATE	:	19/08/82

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/W07
LINE 300E

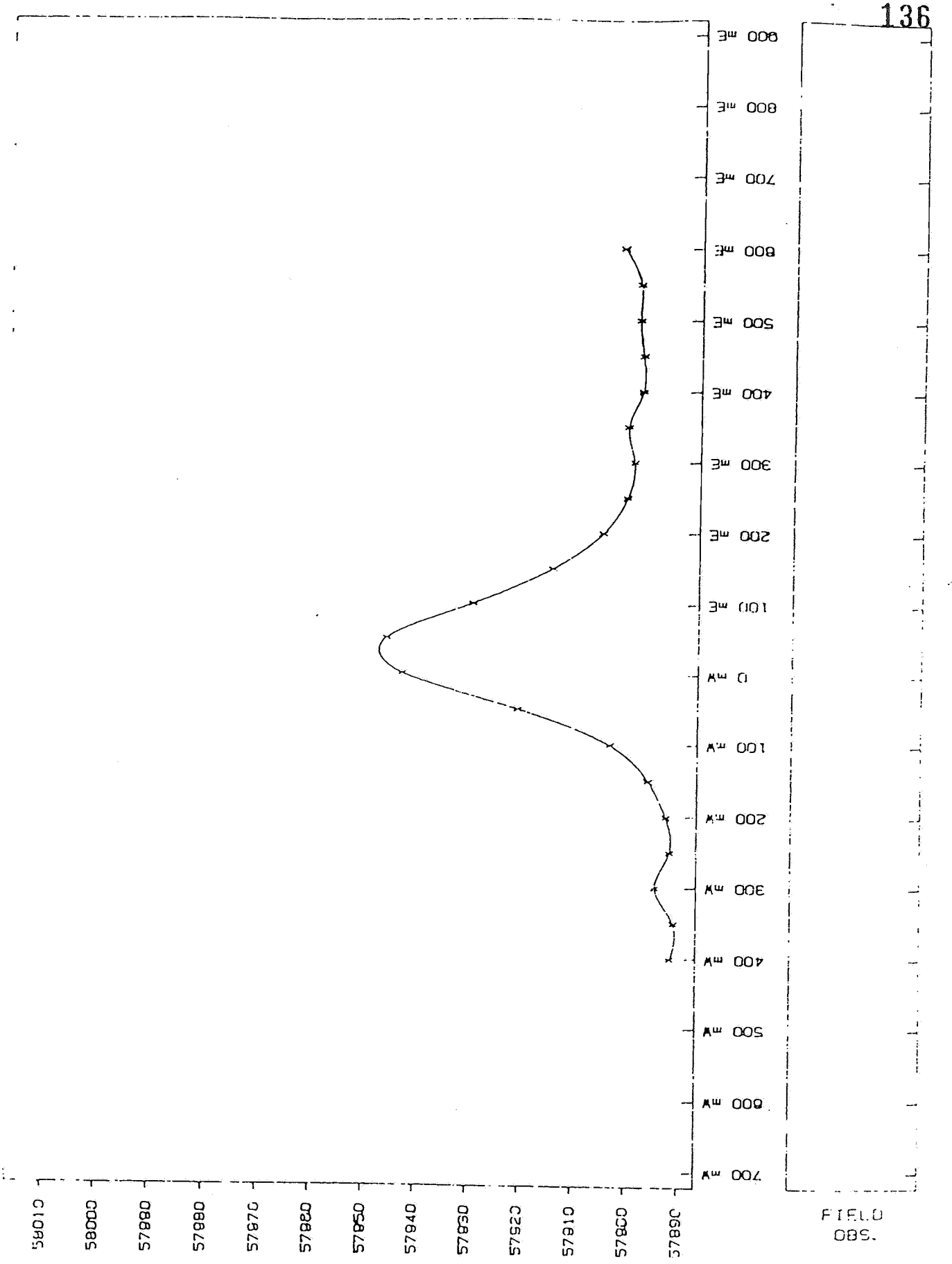
Compiled
Drawn
Date
Scale
Revised



STOCKDALE PROSPECTING LIMITED

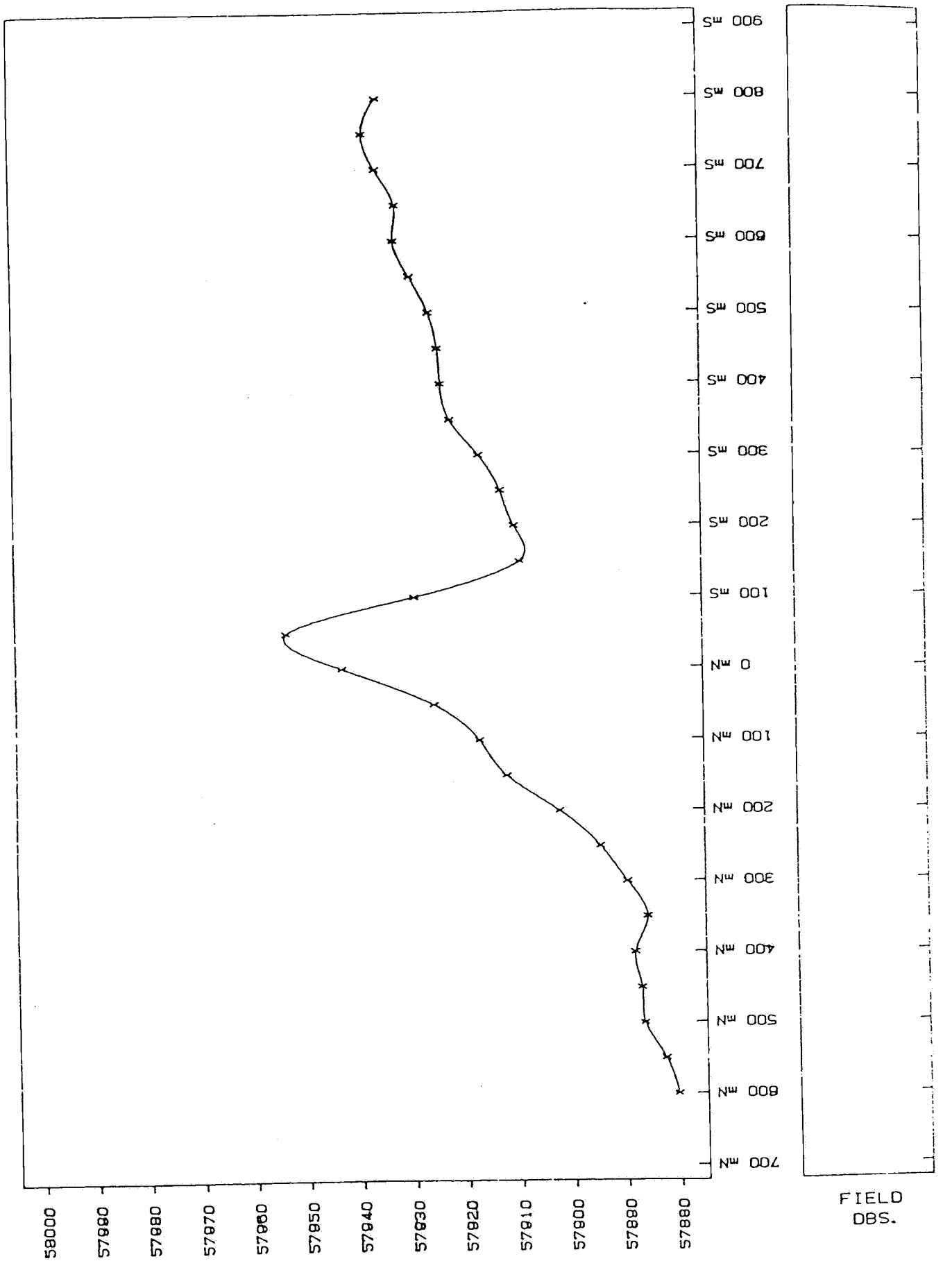
LOCATION: ANOMALY 5436-1 W09 W10

Compiled TSA | Drawn DEF | Date? - - 83 | Scale: 1:5,000 | SSL C32



SURVEY DATE : 10/08/82
LINE & FID. NO. : 1450.0S/242
LINE DIRECTION : 0 DEG.
HORIZ. SCALE : 1: 7500
VERTICAL SCALE : 10 nT/CM
PEAK MAG. READ. : 57948 nT

MAGNETIC PROFILES (nT)
BARTON 5436-1
ANOM. W-9/1
LINE ON



SURVEY DATE : 10/08/82
LINE & FID. NO. : 1450.0S/242
LINE DIRECTION : 0 DEG.
HORIZ. SCALE : 1: 7500
VERTICAL SCALE : 10 nT/CM
PEAK MAG. READ. : 57953.5 nT

MAGNETIC PROFILES (nT)
BARTON 5436-1
ANOM. W-9/1
LINE OW

< P 1

APPENDIX II

DRILL HOLE LOGS : MAP SHEET 5436-1

ANOMALY	DRILL HOLE	PAGE
E07	1	1
E10	1	3
W07	1	5
W08	4	7
W09	1	9
~~W12~~	~~1~~	~~10~~
~~W13~~	~~1~~	~~12~~
~~W20~~	~~1~~	~~14~~

Appendix IC
PCQB 1 of 2

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

PROJECT TAKOOLA/BARTON AREA BARTON 1453-9, 5436-1 Drillhole type ROTARY PERCUSS

CO-ORDS 597210 DEC^LN - AZIMUTH VERTICAL LOC 100W/175S DH NO ANOM E0; DH 1

DATE COMMENCED 25/10/82 DATE COMPLETED 26/10/82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 200C

Non Coring to: HQ Core to NQ Core to BQ Core to EOH 144M.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No	RESUL
0	68	AEOLIAN SAND	Orange red, ferruginous, silty fine-v coarse gr rounded quartz sand (predom coarse gr). Calcrete present throughout, predom from 4-8m.	0 - X1019 0 - 8	BISON JH 7.4 4.6 3.1 3.2
			yellow-white, clean, coarse - very coarse gr rounded quartzitic sand. Calcrete to 20m, predom from 8-12m <1% dark green mafic? sand 20-24m		3.0 4.2 2.9
				X1020 8 - 32	3.0
			yellow, red to coarse gr, rounded argillaceous quartzitic sand. Yellow clay streaks <1%	X1021 32 - 40	3.2 2.3
			Buff brown, argillaceous, coarse gr, rounded quartzitic sand Brown clay ~3%	X1022 40 - 52	7.2 2.3 2.5
			Brown-maroon, ferruginous, fine-coarse gr rounded quartzitic sand. White clay streaks <1%	X1023 52 - 60	3.5 2.7
			Clean, white buff med gr rounded quartzitic sand (contamination ~5% from overlying sand	X1024 60 - 68	3.0 2.6
68	76	LIGNITE & CARBONACEOUS CLAY	Brown-black sandy lignitic & carbonaceous clay. 30% med-coarse gr quartzitic sand to 72m. 5% " - " " " from 72-76m		2.8
				X1025 58 - 76	4.5
76	88	SERICITIC CLAY	Medium-grey, gritty, sericitic clay. ~5% angular quartzitic sand, white sericitic patches ~7%.	X1026	4.6 6.8 <1

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

Appendix
Page 2 of 2

PROJECT ARCOOLA/BARTON AREA BARTON 1753-9 5436-1 Drillhole type ROTARY PER

CO-ORDS 597210 DEC LN – AZIMUTH VERTICAL Loc 100W/175S ANOM. DH No. DH-

DATE COMMENCED 25/10/82 DATE COMPLETED 26/10/82 DRILLED BY P NITSCHKE DRILL RIG BOURNE 2C

Non Coring to HQ Core to NQ Core to BQ Core to EOH 144M

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESU
38	~~88~~ 104	SERICITE-CHLORITE CLAY	Dark grey-green gritty sericitic-chlorite clay: sericite ~30%, biotite ~8%, angular quartzitic sand ~5%	76-88	94
				X1027	
				88-92	95
					8·5
			Dark green, gritty sericite-chlorite clay: biotite ~15%, sericite ~7%, angular quartzitic sand ~4% >10.3m quartz ~7%.		88
				X1028	
104	~~HH~~ 140	QUARTZ-CHLORITIC BIOTITE SCHIST	Weathered quartz-chloritic-biotite schist chloritic clay ~60%, dark green splitic textured quartz ~10%, biotite schist ~30%. NB Strong contamination from casing chips	92-104	77
				X1029	*
				104-108	166
				X1030	
				108-112	75
			Intersected H_2O ~112 ←	X1031	
			Dark black green quartz-chloritic-biotite schist. biotite ~45% (up to 5mm grains) ← pyrite and pyrrhotite (up to 3mm grains) chlorite ~30%; quartz (up to 7mm) ~15%	112-116	68
				X1032	
				116-120	100 2
				X1033	
				120-124	88
				X1034	
				124-128	185
				X1035	
				128-132	223
				X1037	
				132-136	332
				X1038	
140	144	QUARTZ-CHLORITIC BIOTITE SCHIST	Lighter green (than above) sericitic-quartz-chlorite-biotite schist. Colour change mainly due to increase in quartz content. sericite ~10%; quartz ~20%, chlorite ~20%, biotite ~50%	136-140	369
			EOH 144m.		

263
BISON
$\times 10^{-6}$ x
cgs

* Contam
on
Susp

SCALE GEOLOGIST DATE

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

141

PROJECT TARCOOLA/BARTON. AREA HSS-9. BARTON S436-1. Drillhole type Rotary Percussi

CO-ORDS 605209 DEC^LN - AZIMUTH VERTICAL LOC 100W/50S. DH No E10/DH1

DATE COMMENCED 28-10-82 DATE COMPLETED 28-10-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000.

Non Coring to HQ Core to NQ Core to BQ Core to EOH 92m.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULT
0	56	AEOLIAN SAND	Orange-brown, fine to medium grained, oxidised quartz sand.		BISON JH
			4-8. Slightly paler, fine to medium silty sand with soft, rare calcrete.	0-4	5·3. 12
			8-12. Clayey quartz sand - some contamination from E07.	4-8	351 30
			12-20. More homogeneous, buff to brown-yellow fine to medium sand, with < 2% carbonate - cemented sand	8-12	53 <1(
			20-24. Darker and coarser, well rounded quartz sand.	12-16	4·3 <1(
			24-32 Dark orange-brown, silty fine to coarse sand with cemented lenses towards base	16-20	3·3 <1(
			32-36 Paler, buff to yellow-brown, medium silty sand with 10-15% ferruginised silcrete	20-24	30 <1(
			36-40 Pale orange to pink-grey coarse q/z. sand with sub-angular polished silcrete up to 1cm.	24-28	33 <1(
			40-48. Pale grey to cream, fresh, soft medium-coarse sand with rare small silcrete and carbonate-cemented sand	28-32	30 <1(
			48-52. Pale orange, fresh, medium quartz sand	32-36	3·0 x1(
			52-56 Dark red-brown, silty, medium ferrug. sand with 10-15% white carbonate matrix sand.	36-40	32 <1(
56	66	CLAY (WEATHERED BASEMENT)	56-60. Predominantly pale cream, soft kaolinised? basement and grey/mauve rock fragments - little remnant texture.	40-44	2·7 <1(
			60-64 Becoming pale khaki-green plastic clay with sericite, chlorite at 62m.	44-48	21 <1(
			64-66. Weathered schistose fragments with much mica.	48-52	25 <1(
66	82	GNEISS	Dark, inequigranular fresh basement. Large quartz, plagioclase and K-feldspar in mafic matrix containing fine biotite and other mafics Strongly magnetic. Becoming quartz rich to base (80-82m)	52-56	3·2 <1(
				56-60	3·3 <1(
				60-64	34 <1(
				64-66	85 20(
				66-68	85 19(
				68-70	323 5(
				70-72	276 4(
				72-74	212 5(
				74-76	530 19(
				76-78	449 18(
				78-80	569 20(
				80-82	742 27(
82	92	SCHIST	Dark grey, fine grained, schistose fabric. More homogeneous; sugary texture, less magnetic	82-84	249 12(
				84-86	55 1(

SCALE 1:400 GEOLOGIST TSB DATE 29-10-82

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DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA / BARTON AREA HS3-9. BARTON 5436-1. Drillhole type Rotary Percu

CO-ORDS 605209 DEC^{LN} – AZIMUTH VERTICAL LOC 100W/50S DH No E10/DH1

DATE COMMENCED 28-10-82 DATE COMPLETED 28-10-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 200

Non Coring to HQ Core to NQ Core to BQ Core to EOH

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No	RESUL
86	92	SCHIST	See above		33 1 69 1
			Borehole completed at 92m in SCHIST Struck water at 73.m whilst drilling. Sampled as follows.- X1039 0-12m X1040 12-24m X1041 24-36m X1042 36-52 X1043 52-56 X1044 56-60 X1045 60-64 Then every 2m from 64-92m X1046 – 1059.		BISON U x10^{-6} x1 cgs S

SCALE 1:400 GEOLOGIST TSR DATE

F. WA

STOCKDALE PROSPECTING LTD

DRILLHOLE LOG SUMMARY SHEET

PROJECT	TARCOOLA / BARTON	AREA	BARTON HSS-1 5436-1		Drillhole type Rotary Percus
CO-ORDS	592213	DEC LN	–	AZIMUTH VERTICAL LOC 300mN / ON	DH No WO7/ DH1
DATE COMMENCED	20-10-82	DATE COMPLETED	23-10-82	DRILLED BY P NITSCHKE	DRILL RIG BOURNE 200

Non Coring to | HQ Core to | NQ Core to | BQ Core to | EOH 174m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULT
0	72	AEOLIAN SAND	0-2cm Orange to yellow silty to granular, predominantly medium to coarse grained, rounded quartz sand. Becoming yellow from 12m Calcrete 4-20cm, sandy 8-12m		Bison TF x10⁻⁶ x10 cgs S c-130 OH
		X0981 0-2Cm		0-4m	
				4-8	NOT <1 TAKEN
				8-12	
				12-16	
		X0982 2C 36m	2C-36m Clean, cream to white medium to very coarse grained rounded quartz sand. Calcrete fragments to 28m White from 28-36m	16 20	
				20 24	
				24-28	
				28-32	
		X0983 36 40m	36-40m Pink-buff, coarse grained, rounded quartz sand with light grey claystone band.	32-36	
		X0984 40-52m	40-52m Bright yellow, coarse to granular, rounded quartz sand 3% light grey clay to 48m	36 40	
				40 44	
				44-48	
		X0985 52-60m	52-60m Buff-white, medium to coarse grained, rounded quartz sand, with rare yellow clay lenses	48 52	
				52-56	
		X0986 60-72m	60-72m Dark red, silty to coarse grained ferruginous quartz sand. <1% grey to yellow clay lenses	56 60	
				60 64	
				64-68	
				68-72	
72	84	LIGNITIC SAND	Pink-grey, micaceous and lignitic, coarse grained, sub angular quartz sand. ~2% mica, ~4% lignite from 76m 80-84 Hard band	72-76	
		X0987 72-84m		76 80	
				80-84	
84	96	SANDY LIGNITE			

SCALE 1:400 | GEOLOGIST MHP / TSB | DATE 1-11-82

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DRILLHOLE LOG SUMMARY SHEET

PROJECT TARWOOLA | BARTON AREA BARTON HS3 9 5436-1 Drillhole type Rotary Percuss.

CO-ORDS 592213 DEC LN - AZIMUTH VERTICAL LOC 300W/0N DH No WO7 DH1

DATE COMMENCED 20-10-82 DATE COMPLETED 23-10-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to HQ Core to NQ Core to BQ Core to EOH 174m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESULT
84	96	SANDY LIGNITE X0988 84-96m	Gn Hy lignite. Coarse grained to granular sub-angular quartz 5%, mica 2% and clayey lignite, particles from 85m	84-88 88-92 92-96	
96	142	CLAY (WEATHERED BASEMENT) X0989 96 104m X0990 104-116m X0991 116-120m X0992 - X1018 Sampled every 2m 120-174m	96 104m. Medium to dark grey, gritty sericitic clay. mica + qtz ~ 2%, white, plastic, sericitic patches 7%. 104-116m Light grey to white gritty sericitic clay fine to coarse angular qtz sand ~ 7% and med to coarse mica ~ 1%. 116-120m Gn Hy. grey-green, chlorite-sericite clay. Chlorite ~ 35%, coarse grained biotite ~ 7%, angular fine to very coarse qtz sand ~ 4%. 120 122m Dark grey, gritty, chlorite clay. Predominantly quartz ~ 60%. with mica and some lignite contamination 122-126m Dark green-grey clay with altered and rock fragments. Mainly milky qtz with biotite, muscovite, chlorite 126 128m Coarser fragments 128-140m Finer material 140-142m Slightly paler, increase in qtz coarser with subsidiary biotite & muscovite	96-100 100 104 104-108 108-112 112-116 116-120 120-122 122-124 124-126 126-128 128-130 130 132 132-134 134-136 136-138 138 140 140-142	3 C 3 C 7 C 19 S 12 2 19 S
142	174	GNEISS	Pale grey to green, fine grained, fresh bedrock. Predominantly quartzose rock with much biotite, chlorite (in fine slurry) and dark platy reflecting mineral(?) Minor muscovite Aeolian sand contamination throughout Borehole completed at 174m in GNEISS	142 144 144-146 146-148 148 150 150-152 152-154 154-156 156-158 158-160 160-162 162-164 164-166 166-168 168-170 170-172 172-174	14 S 8 6 7 4 17 2 23 8 27 2 27 0 28 6 33 C 17 6 19 6 26 S 28 31 31 35

SCALE 1:400 GEOLOGIST MHP | TSB DATE 1-11-82

Appendix 1
Page 1 of 1

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DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA / BARTON AREA HS3-9 BARTON 5436-1. Drillhole type Rotary Percus

CO-ORDS 596213 DEC^LN - AZIMUTH VERTICAL RL/OC OW/OS DH No WCB DH4

DATE COMMENCED 13-10-82 DATE COMPLETED 14-10-82 DRILLED BY P. NITSCHKE DRILL RIG BOURNE 2000

Non Coring to HQ Core to NQ Core to BQ Core to EDM 16m.

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RESU
0	16	AEOLIAN SAND	Orange-brown, ferruginised quartz sand.		
			X0980 : 0-16m.		
			Borehole aborted at 16m - problems with hydraulic motor.		

SCALE 1:400 GEOLOGIST TCP DATE [illegible] 82

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Appendix

Page 1 of 2

DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA/BARTON AREA BARTON HSS-9, S436-1 Drillhole typ Rotary Perc

CO-ORDS 588210 DEC^LN - AZIMUTH VERTICAL LOC CN/100N DH No WC DH1

DATE COMMENCED 16-11-82 DATE COMPLETED 16-11-82 DRILLED BY P NITSCHKE DRILL RIG BOURNE 2C

Non Coring to HQ Core to NQ Core to BQ Core to EOH 96m

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RES
					BISON
0	16	AEOLIAN SAND	0-4. Red-brown, ferruginised, silty, fine to medium, aeolian quartz sand.	0-4	6·2
			4-8 Pale orange, fine to medium, silty quartz sand with carbonate-cemented sandy pebbles	4-8	4 1
			8-16. Pale grey to cream, soft, fine quartz sand with some compacted siltstone horizons	8-12	2 8
16	31	CLAY (WEATHERED BASEMENT)	16-20. Pale yellow, cream, clayey sand containing large milky quartz fragments	12-16	4 0
			20-24. Pale cream-grey plastic clay containing angular quartz grit, flecks of muscovite and white sericite clay.	16-20	3 8
			24-31 Predominantly quartz grit with 20% flaky, soft, schistose fragments containing abundant biotite.	20-24	3 0
				24-28	5 6
31	96	BANDED ACID GNEISS	31-34. Pale grey-green, fine powder with numerous quartz chippings and weathered schistose fragments	28-31	3 4
				31-32	5 C
				32-34	17 5
			34-38 Predominantly quartzose, light grey, medium grained, xenogranular. Essentially quartz, biotite, other mafics and abundant pink, single garnet grains. Fresh basement.	34-36	12 8
				36-38	12 0
			38-40 more mafic section	38-40	13 6
				40-42	11 8
			40-44. Similar to 34-38 muscovite more common	42-44	10 5
			44-54. Slightly more mafic with metamorphic fabric of aligned biotite and mafics quartz still predominant	44-46	10 3
				46-48	12 2
				48-50	11 5
			54-60. More acid section many large xenomineralic quartz grains and other grains comprising mafic assemblage.	50-52	12 3
				52-54	8 7
				54-56	13 1
				56-60	11 2
			60-64. Less quartz and muscovite. More intergranular texture	60-62	11 4
				62-64	10 4
			64-72. Quartz-rich horizon	64-68	12 4
				68-72	11 4
			72-76 Quartz/mafics in equal proportions	72-76	13 8
			76-80. very quartz-rich horizon	76-80	15 7
			80-84. Much finer sample - very micaceous Border band?	80-84	10 0
				84-88	11 4

SCALE 1:400 GEOLOGIST TSB DATE 17-11-82

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DRILLHOLE LOG SUMMARY SHEET

Appendix
Page 2
of 2

PROJECT	TARCOOLA / BARTON	AREA	BARTON H53-9, 5436-1		Drillhole ty: Rotary Pe:
CO-ORDS	587210.	DEC LN	AZIMUTH VERTICAL	LOC GRID / LOCN	DH No WC DH
DATE COMMENCED	16-11-82	DATE COMPLETED	16-11-82	DRILLED BY	P. NITSCHKE
DRILL RIG	Bourne 20(				
Non Coring to:		HQ Core to		NQ Core to	BQ Core to
EOH	96m				

FROM	TO	ROCK TYPE	FIELD DESCRIPTION	SAMPLE No.	RES
31	96	BANDED ACID GNEISS	84-88. Finely disseminated mafics through quartzose rock. No mica nor garnet evident	84-88	14 2
90			88-92. Quartz banded mafics		
			92-96. Finer sample, biotite increased, still quartz rich	88-92	12 9
96				92-96	11 2
			Borehole completed at 96m in BANDED ACID GNEISS		BISON X10 L Logs

Sampled as follows -

X1208	0-4m
X1209	4-8
X1210	8-16
X1211	16-20
X1212	20-24
X1213	24-28
X1214	28-31
X1215	31-32

Then every 2m from 32-64m
X1216-31

Then every 4m from 64-96m
X1232-39.

SCALE 1:400 GEOLOGIST TSB DATE

APPENDIX III

1st Quarter to 3 September, 1983

Ground geophysical data

	-100W	-50W	0	50E	100E	150E	200E
400N	120.4	118.6	119.7	118.2	114.1	112.1	118.4
350N	123.1	122.7	125.4	122.5	118	118.7	115.8
300N	128.1	122.9	127.5	126.8	127.5	121.9	125
250N	135.9	127.9	132	129.7	129.7	127.3	127.8
200N	136.8	134.9	140	139	134.9	132.7	134.1
150N	140.2	139.5	144.9	146.7	141.9	137.7	133.7
100N	142.4	145.5	158.8	174.6	153.9	143.4	139.4
50N	148.7	152.5	183.7	229.9	180.7	150.7	
0	156.8	162.2	201.9	285.9	217.1	164.7	145.4
50S	158.7	161.7	194.2	258.7	200.7	161.3	149.3
100S	144.9	151.5	184.1	228.4	193.1	148.4	137.5
150S	137.8	144.8	166.9	148.2	136.8	127.5	135.6
200S	140.4	137.9	149.1	131.1	133.2	133.8	139.1
250S	148.1	144.6	148.1	134	148.7	148.4	148.3
300S	149.3	143.7	144.8	142.9	148.2	145.8	154.8
350S	152.4	149.9	149.9	147.8	153.2	151.8	158.4
400S	150.1	158.9	161.9	151.1	153.2	152.1	159.3
450S	161.2	168.7	164.9	157.4	158.9	158.2	166.8
500S	170.4	170.4	169.8	167.5	165.9	163.8	161.3
550S	169.9	170.4	169.9	165.7	169.2	172.1	171.5
600S	179.1	182.6	180.4	172.9	170.1	170.7	169.9

LINE/FID: 1398.2N2591
DATUM LEVEL: 57500 nT.
DATE OF SURVEY: 14/04/83
OPERATER: TSB
SCALE: 1:5000

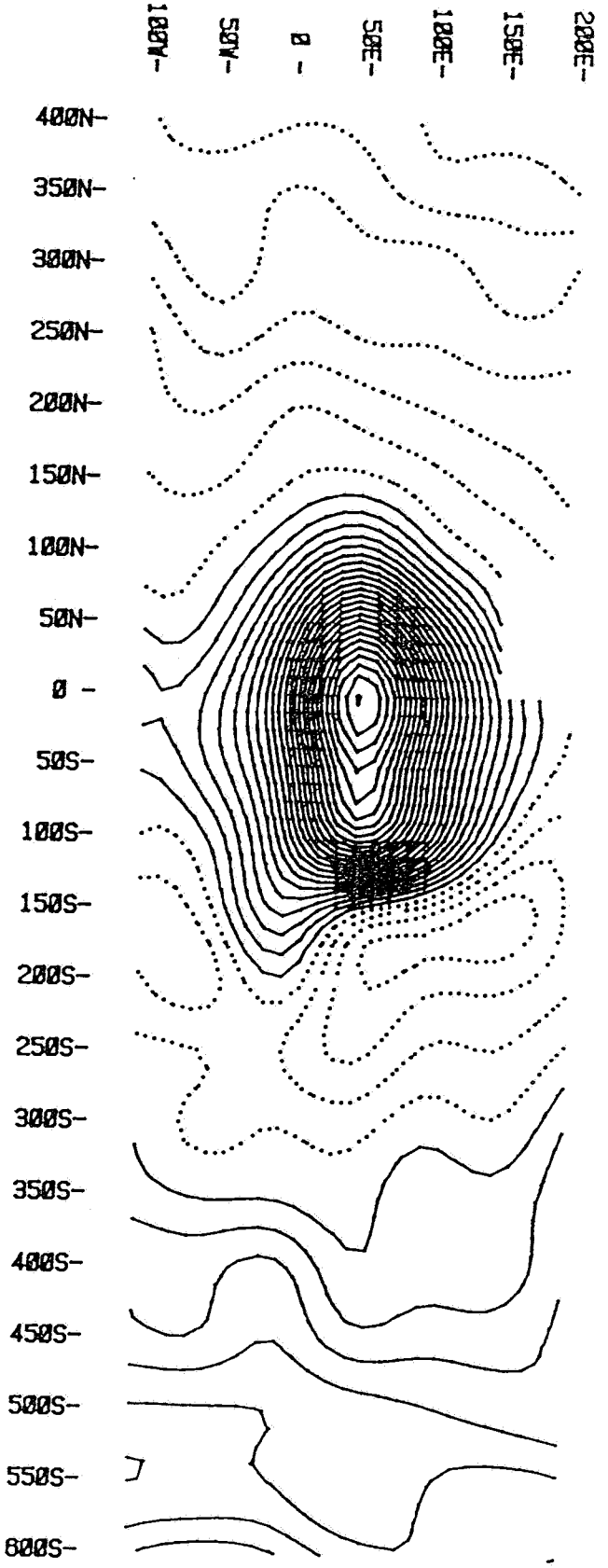
N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON H53-9
5436-1/E-03

Compiled	
Drawn	
Date	
Scale	
Revised	

SEL G115b



LINE/FID.: 1389.2N2591
CONTOUR INT: 5 nT
REF CONTOUR: 150 nT
SURVEY DATE: 14/04/83
SCALE: 1:5000
OPERATER: TSB

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON H53-9
5436-1/E-03

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL GIISa	

	150W	100W	50W	0
400N	3816	3818	3816	3818
350N	3817	3817	3820	3817
300N	3818	3819	3818	3819
250N	3820	3822	3822	3821
200N	3824	3827	3832	3828
150N	3824	3829	3831	3826
100N	3829	3831	3834	3836
50N	3831	3834	3841	3851
0	3822	3834	3853	3875
50S	3833	3842		3887
100S	3829	3833		3850
150S	3833	3833		3838
200S	3830	3828		3830
250S	3821	3821		3820
300S	3824	3826		3817
350S	3817	3815		3802
400S	3817	3816		3813
450S	3819	3819		3816
500S	3829	3831		3822
550S	3824	3825		3820
600S	3829	3831		3822
650S	3834	3834		3815

LINE/FID: 1413.4N 692
DATUM LEVEL: 54000 nT.
DATE OF SURVEY: 12/04/83
OPERATER: D.G.
SCALE: 1:5000

N

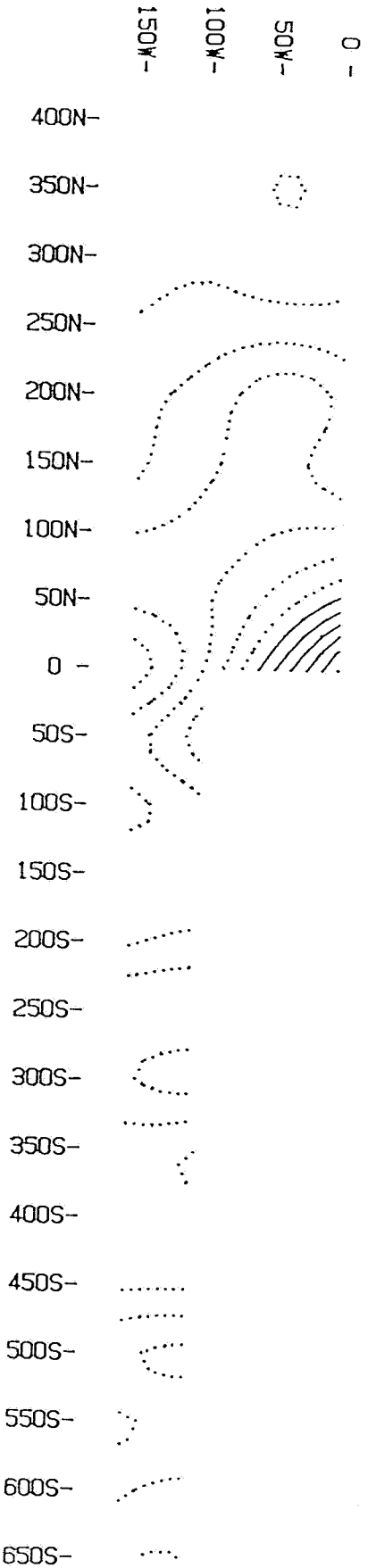
STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)

BARTON: H53-9

5436-1/E04

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL G107b	



LINE/FID.: 1413.4N 692
CONTOUR INT: 5 nT
REF CONTOUR: 3850 nT
SURVEY DATE: 12/04/83
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON

5436-1/E04

Compiled	
Drawn	
Date	
Scale	
Revised	
SELG1230	

	400W	300W	200W	100W	0
600N	90	89	89	89	84
500N	93	93	95	96	93
400N	98	102	107	108	105
300N	105	111	120	120	115
200N	114	127	139	143	130
100N	125	145	170	179	142
0	132	181	182	170	147
100S	137	178	162	140	128
200S	113	128	116	107	117
300S	107	108	112	115	114
400S	111	109	111	113	119
500S	119	131	115	117	118

LINE/FID: 1416. ON 7270
DATUM LEVEL: 57800 nT.
DATE OF SURVEY: 19/04/83
OPERATER: TSB
SCALE: 1: 10000

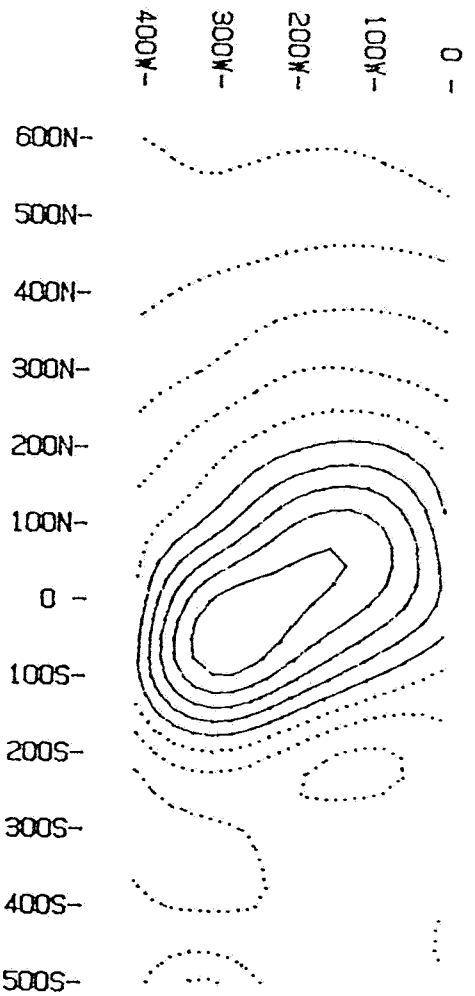
N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON: H53-9
5436-1/E06

Compiled
Drawn
Date
Scale
Revised

SEL 1096



LINE/FID.: 1416.ON 7270
CONTOUR INT.: 10 nT
REF CONTOUR: 140 nT
SURVEY DATE: 19/04/83
SCALE: 1:10000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

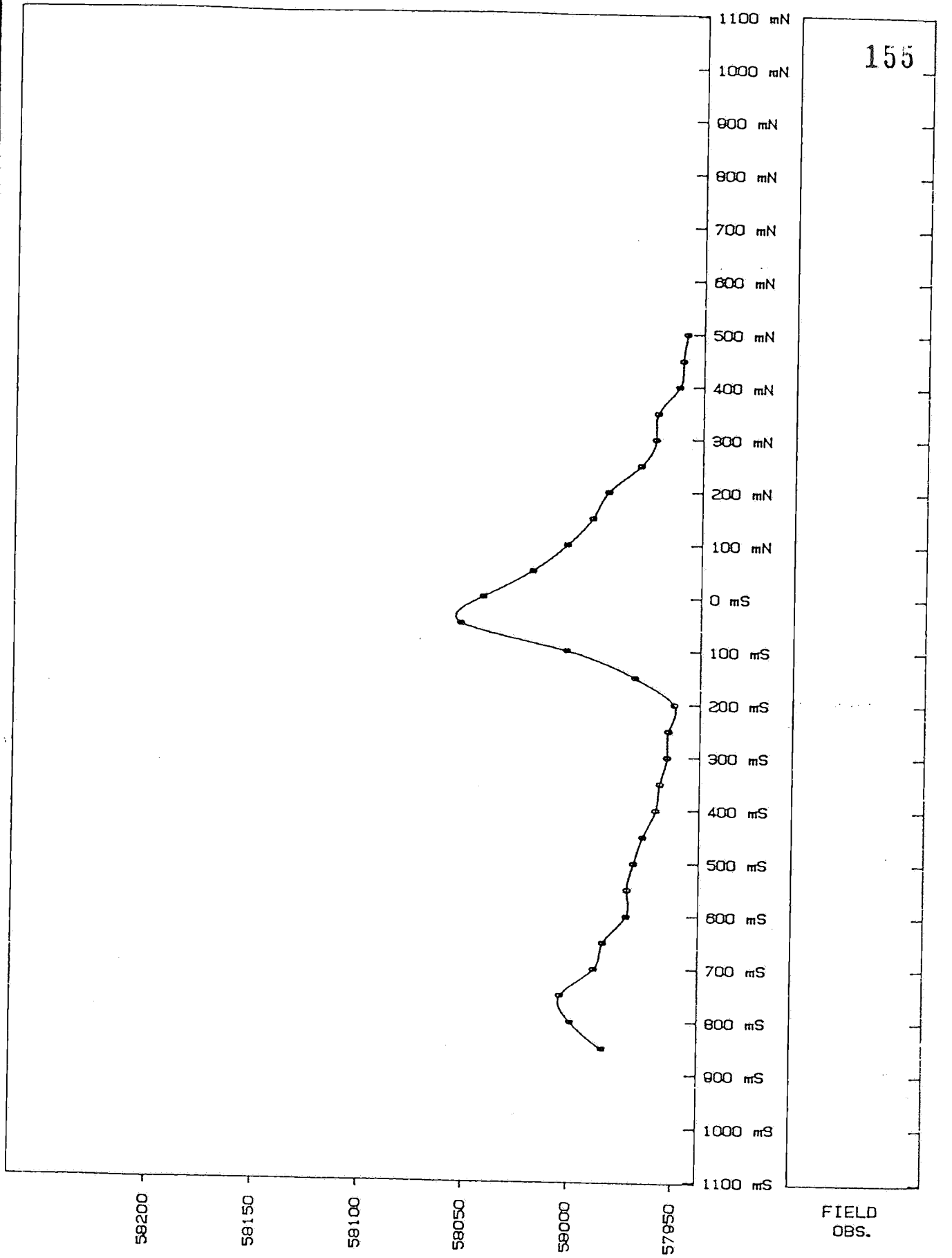
MAGNETOMETER CONTOURS

BARTON

5436-1/E06

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	GR9a

155



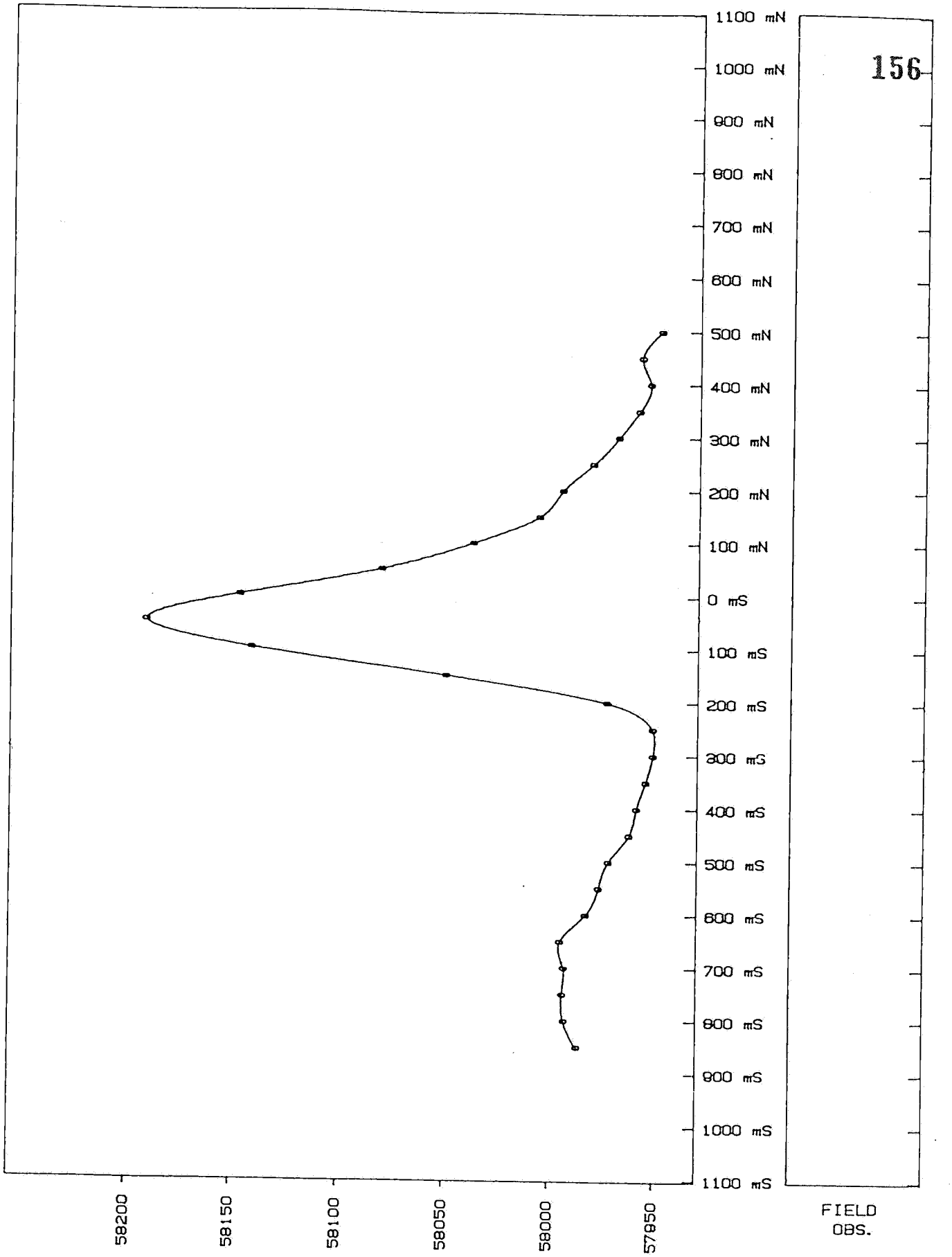
HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 25 nT/CM
LINE AZIMUTH : ON
PEAK MAG. READ. : 58053.3 nT
MAP SHEET : H53-9
AMG OF ON/OE :
LINE & FID. NO. : 1423.0S 1490
SURVEY DATE : 19/04/83

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E07
LINE 300W

Compiled	
Drawn	
Date	
Scale	
Revised	

SELG128D

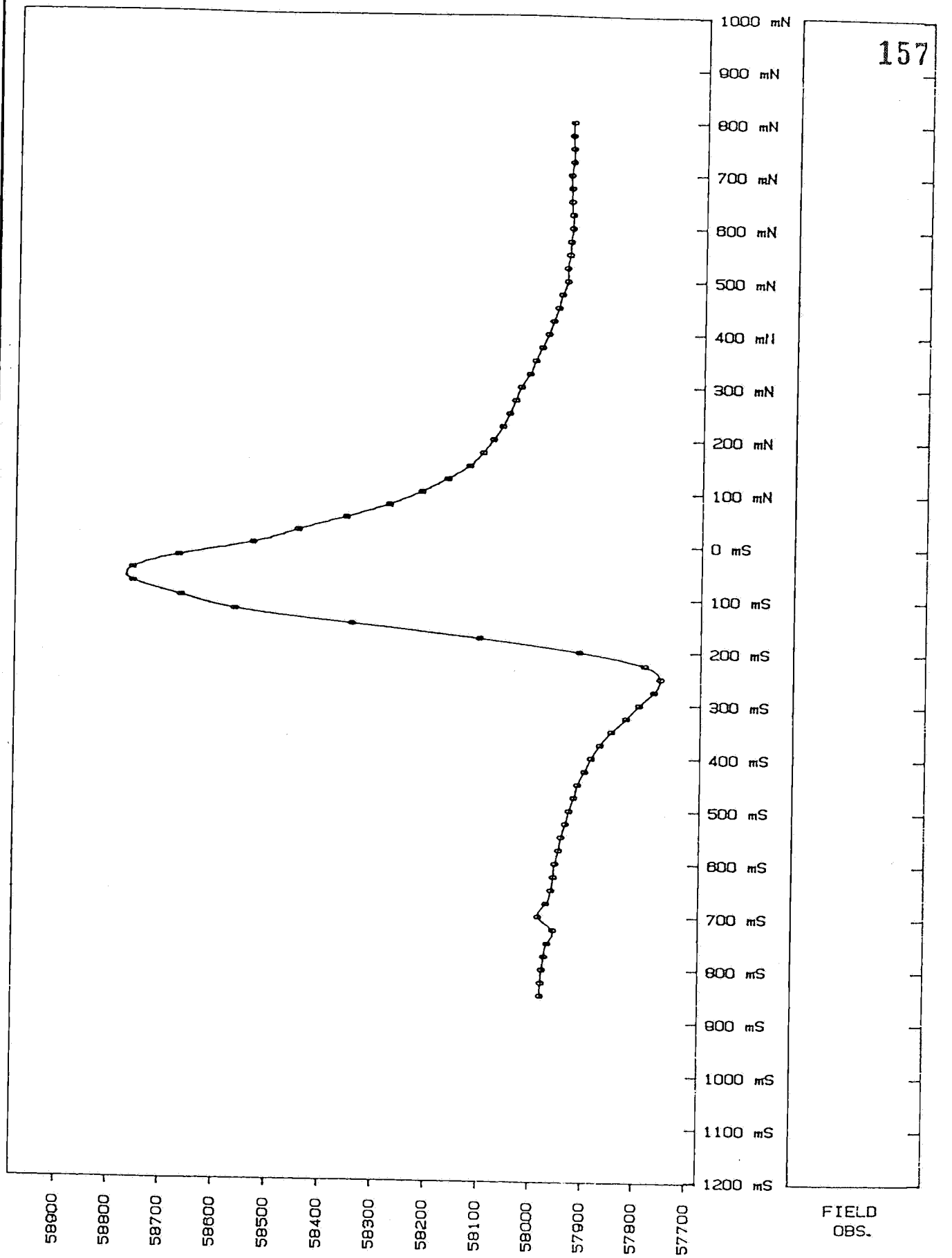


HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 25 nT/CM
LINE AZIMUTH : ON
PEAK MAG. READ. : 58191.6 nT
MAP SHEET : H53-9
AMG OF ON/OE :
LINE & FID. NO. : 1423.0S 1490
SURVEY DATE : 19/04/83

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E07
LINE 200W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	G128a



HORIZ. SCALE : 1: 10000
VERTICAL SCALE : 100 nT/CM
LINE AZIMUTH : ON
PEAK MAG. READ. : 58762.5 nT
MAP SHEET : H53-9
AMG OF ON/OE :
LINE & FID. NO. : 1401.0S 950
SURVEY DATE : 19/04/83

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/E10
LINE 150W

Compiled	
Drawn	
Date	
Scale	
Revised	

SEL G129

	100E	150E	200E	250E	300E	350E	400E
500N	8.5	1.3	6.8	5.3	4.8	12.5	11.9
450N	9	4.5	6.2	7.8	6.4	13.3	7.9
400N	6.5	4.5	13.6	11.7	9.5	15.8	10.5
350N	13.2	8.6	15.1	11.3	10.1	17.7	14.8
300N	18.8	16	20	14.6	11.9	17.2	15.5
250N	27.7	23.7	26.8	22.4	19.4	22.7	19.3
200N	39.2	32.4	38.7	31	29	32.3	28.9
150N	49.2	47.1	53.2	43.4	38.6	39.1	35.4
100N	57.9	60.2	68	53.6	47.4	46.4	38.1
50N	84.2	84.6	79.3	68.2	58.2	54.8	43.8
0	122.2	110.2	93.5	77.8	58.9	66.4	50
50S	121.5	120.2	110.9	94	64.5	69.1	46.4
100S	81	91.4	117.4	103.8	65.1	70.1	47.1
150S	69.6	79.5	122.3	90.8	55	59.1	43.5
200S	59.6	126.9	132	53.5	35.2	40.4	30.5
250S	42.5	115.2	47.1	23.8	16.1	26.8	15.6
300S	28.4	15.6	14.3	15.2	10.6	17	14.1
350S	24.6	16.9	17.4	14.8	12.8	17.5	12.4
400S	23.1	15.4	17.9	18.9	13.7	19.9	15.5
450S	18.8	16.6	21.9	22	21.1	29	20.6
500S	20.7	16.8	20.5	30.6	26.2	34	24.5

LINE/FID: 1407.3S 149
DATUM LEVEL: 58003 nT.
DATE OF SURVEY: 19/05/83
OPERATER: I.P.
SCALE: 1:5000

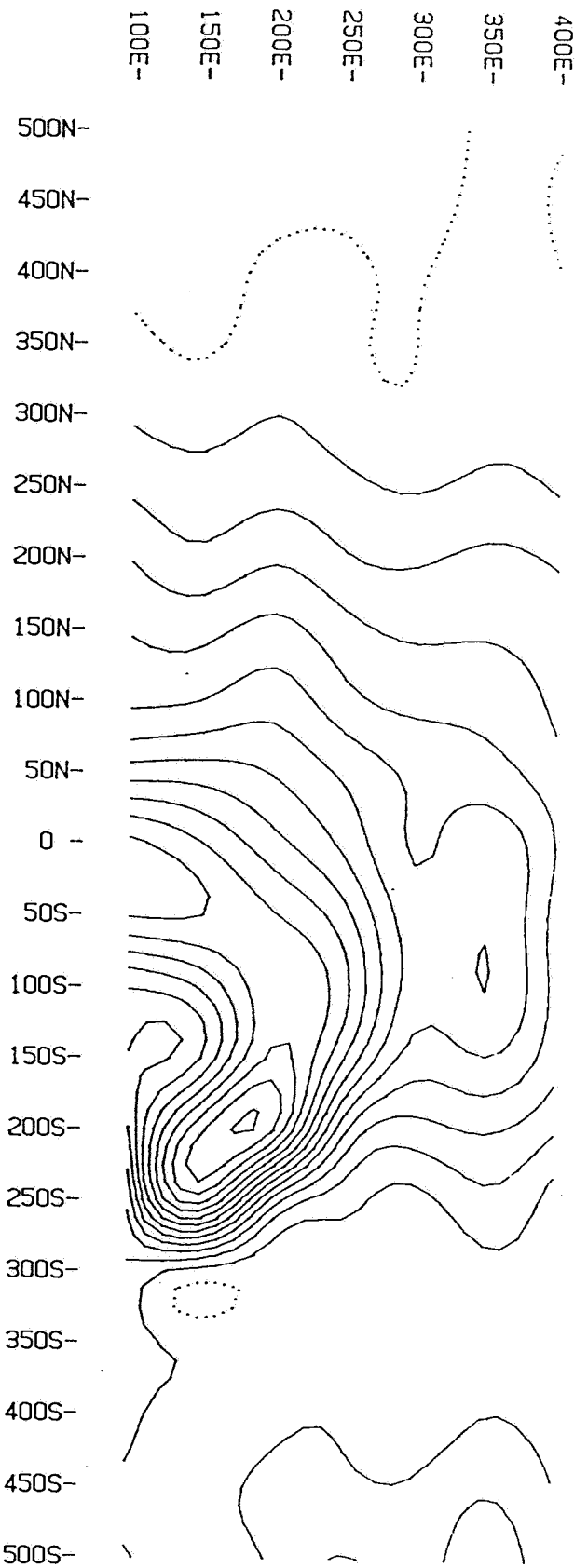
N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON H53-9
5436-I / E-II

Compiled	
Drawn	
Date	
Scale	
Revised	

SEL G1176



LINE/FID.: 1407.3S 149
CONTOUR INT: 10 nT
REF CONTOUR: 20 nT
SURVEY DATE: 19/05/83
SCALE: 1:5000
OPERATER: I.P.

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON H53-9
5436-1 / E-11

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	G117a

	100W-	0 -	100E-	200E-
250N-	+ 26.1	+ 27.4	+ 24.3	+ 29.9
150N-	+ 29	+ 30.4	+ 33	+ 29.2
50N-	+ 28.6	+ 39.1	+ 49.5	+ 36.4
50S-	+ 51.2	+ 78.9	+ 63.6	+ 36.8
150S-	+ 90.1	+ 173.8	+ 98.3	+ 34.2
250S-	+ 46.9	+ 34	+ 12.6	+ 21
350S-	+ 2.2	+ 7.2	+ 12	+ 22.1
450S-	+ 20.4	+ 23.8	+ 24.1	+ 29.9
550S-	+ 25.6	+ 26.7	+ 29.3	+ 28.1
650S-	+ 25.8	+ 23.3	+ 25.6	+ 32

LINE/FID: 1409.2S 3380
DATUM LEVEL: 58047.2 nT.
DATE OF SURVEY: 07/06/83
OPERATER: PATTO
SCALE: 1:10000

N

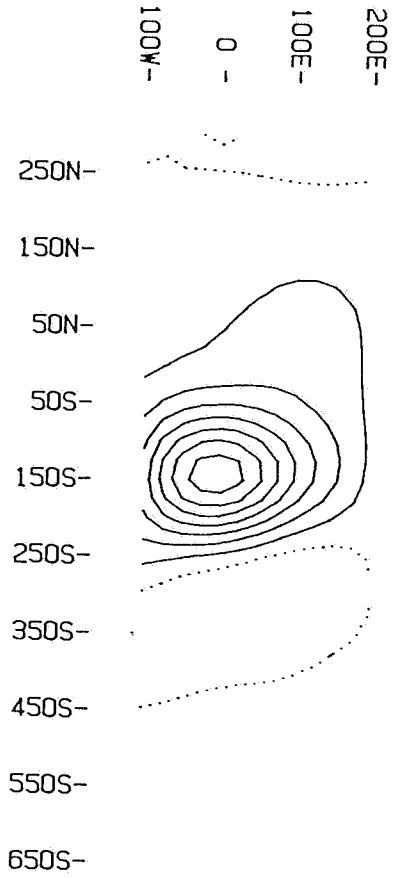
STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)

5436-1

E-13

Compiled	
Drawn	
Date	
Scale	
Revised	



LINE/FID.: 1409.2S 3380
CONTOUR INT: 20 nT
REF CONTOUR: 40 nT
SURVEY DATE: 07/06/83
SCALE: 1:10000
OPERATER: PATTO

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

5436-1

E-13

Compiled	
Drawn	
Date	
Scale	
Revised	
SELG-123a	

	400W-	300W-	200W-	100W-	0 -	100E-	200E-	300E-
250N-	7.4	9.8	8.4	10.5	7	8.7	2.9	.5
150N-	8.7	12.9	11.1	14.8	10.6	16.3	10.8	10.7
50N-	14.5	17.6	19.7	29.7	33	38.1	22.9	16.1
50S-	14.8	25.8	34.8	50.3	56.5	46.1	22.3	10.3
150S-	20.4	39	59.3	58	42.3	26.4	13.9	12.1
250S-	17	34.8	47.7	35.1	30	20.6	16.6	17.2
350S-	17.5	17.3	15.6	17.7	16.5	15.1	10.2	14.2
450S-	21	21	17.1	19.8	16.7	20.8	16.7	25.3
550S-	20.4	21.4	19.3	21.2	18.2	21.1	17.2	19.1
650S-	25.4	25.5	20.8	31.2	26.2	23.6	22.7	24.2
750S-	25.1	27.8	27.1	27.1	22.5	25.4	20.2	24.5
850S-	28.4	29.4	28.1	30.1	27.6	30.1	24.8	28.8

LINE/FID: : 1420. ON 5242
DATUM LEVEL: 57745.4 nT.
DATE OF SURVEY: 28/04/83
OPERATER: I.P.
SCALE: 1:10000

N

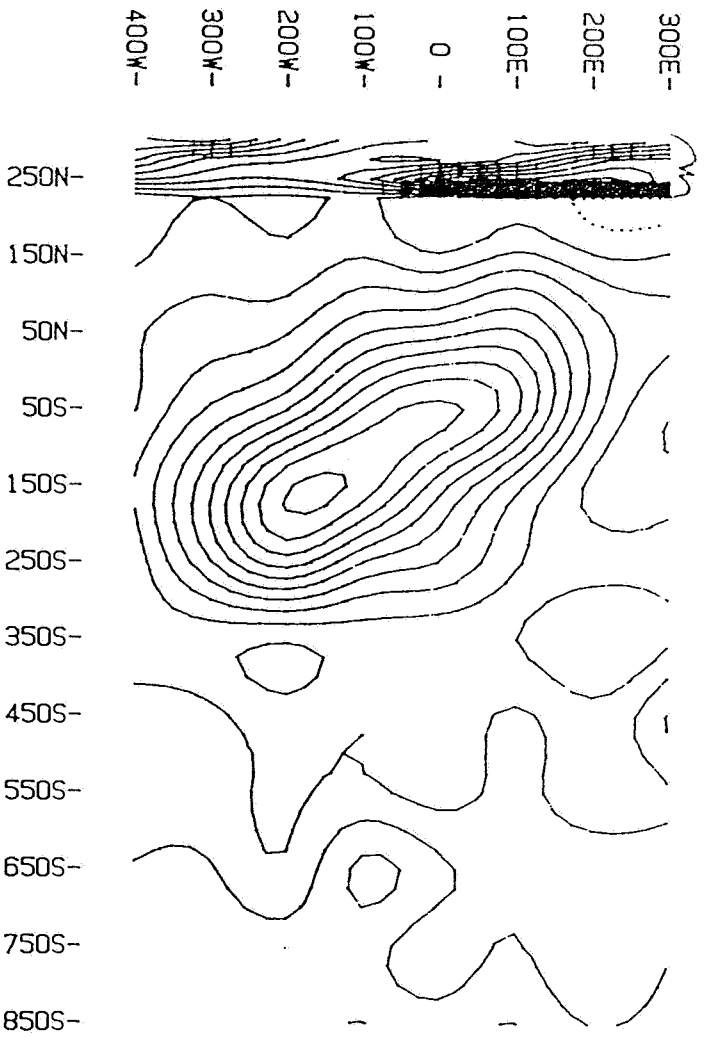
STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)

5436-1

E-19

Compiled	
Drawn	
Date	
Scale	
Revised	
SELG124b	



LINE/FID.: 1420. ON 5242
CONTOUR INT: 5 nT
REF CONTOUR: 10 nT
SURVEY DATE: 28/04/83
SCALE: 1:10000
OPERATER: I.P.

N

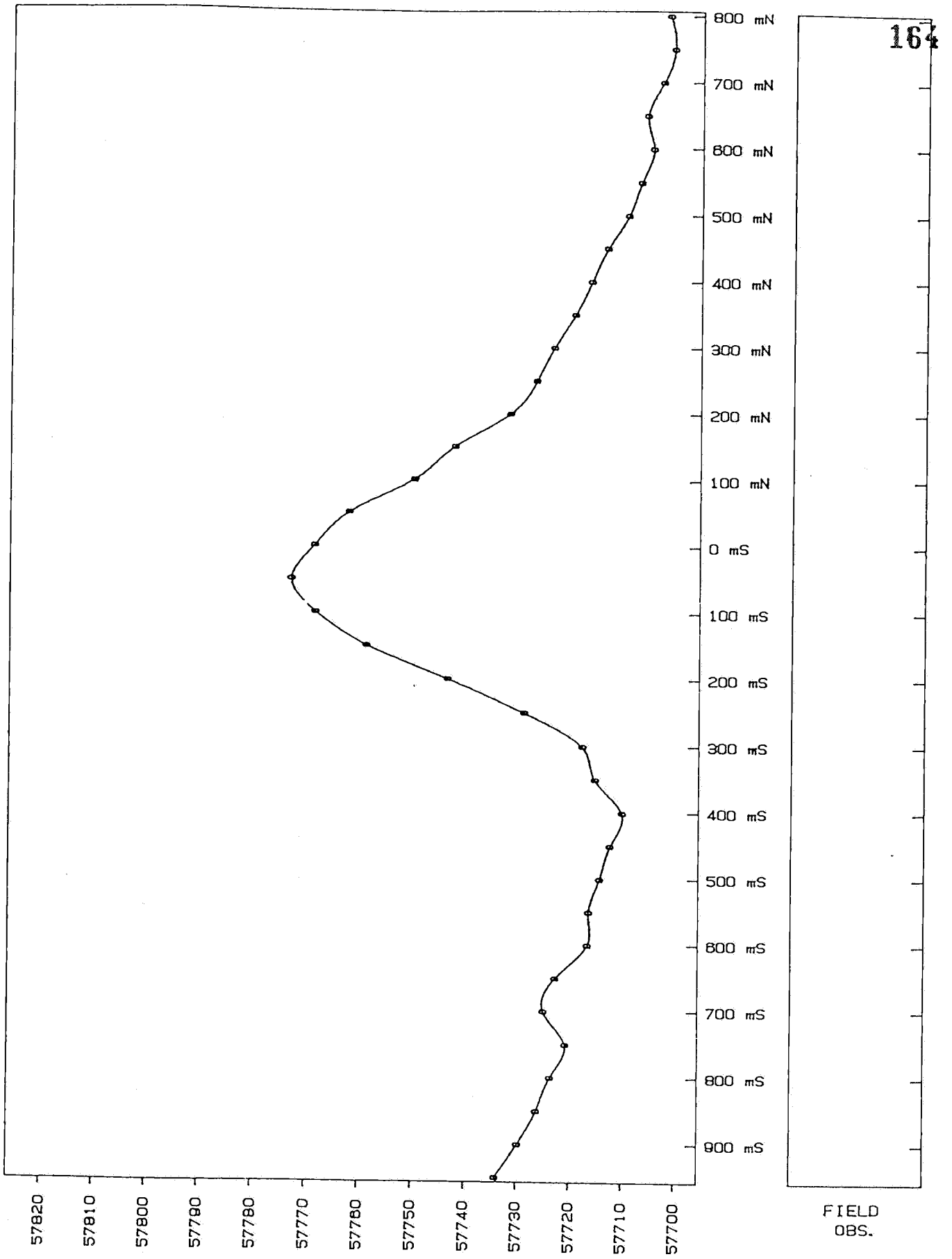
STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

5436-1

E-19

Compiled	
Drawn	
Date	
Scale	
Revised	
SELG124 a	



HORIZ. SCALE : 1: 8000
VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : ON
PEAK MAG. READ. : 57773.2 nT
MAP SHEET : H53-9
AMG OF ON/OE :
LINE & FID. NO. : 1453.4N 424
SURVEY DATE : 27/04/83

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 5436-1/W03
LINE 300W

Compiled	
Drawn	
Date	
Scale	
Revised	
SELG119	

	600W-	450W-	300W-	150W-	0 -	150E-	300E-	450E-
900N-	342		334	358	349	388	358	380
750N-	345	347	359		399	418	386	372
600N-	348	355	370	412	484	450	418	390
450N-	353	388	387	448	488	505	481	429
300N-	369	410	453	500	539	560	527	453
150N-	400	530	572	573	585	620	604	458
0 -	331	505	600	590	537	548	541	397
150S-	300	276	334	368	364	318	329	335
300S-	332	302	278	269	278	298	313	333
450S-	364	349	340	332	324	336	350	358
600S-	382	372	364	363	357	368	377	379
750S-	390	383	382	381	372	388	405	392
900S-	398	392	391	388	387	398	400	392
1050S-			400		395		399	
1200S-			405		400		409	

LINE/FID: 1440. 4S 5614
DATUM LEVEL: 57500 nT.
DATE OF SURVEY: 20/04/83
OPERATER: I. P.
SCALE: 1: 15000

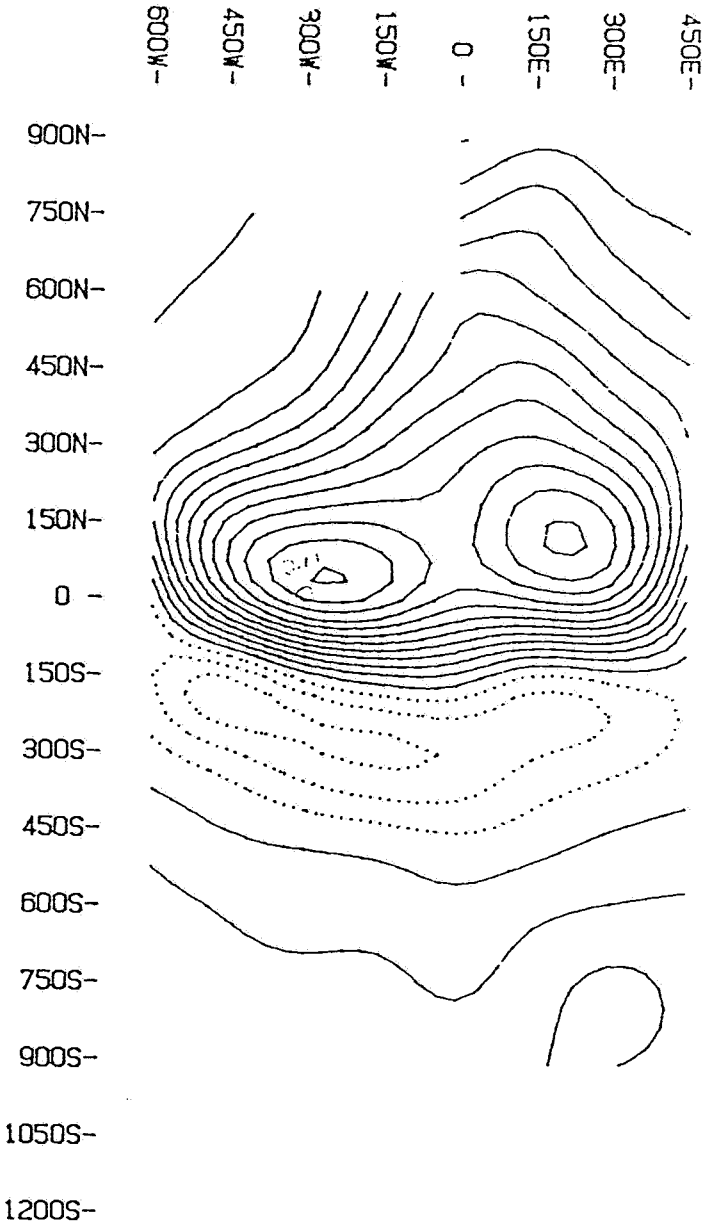
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STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON: H53-9
5436-1/W07

Compiled	
Drawn	
Date	
Scale	
Revised	

SELG1676



LINE/FID.: 1440. 4S 5614
CONTOUR INT: 25 nT
REF CONTOUR: 350 nT
SURVEY DATE: 20/04/83
SCALE: 1:15000
MAP H53-9

N

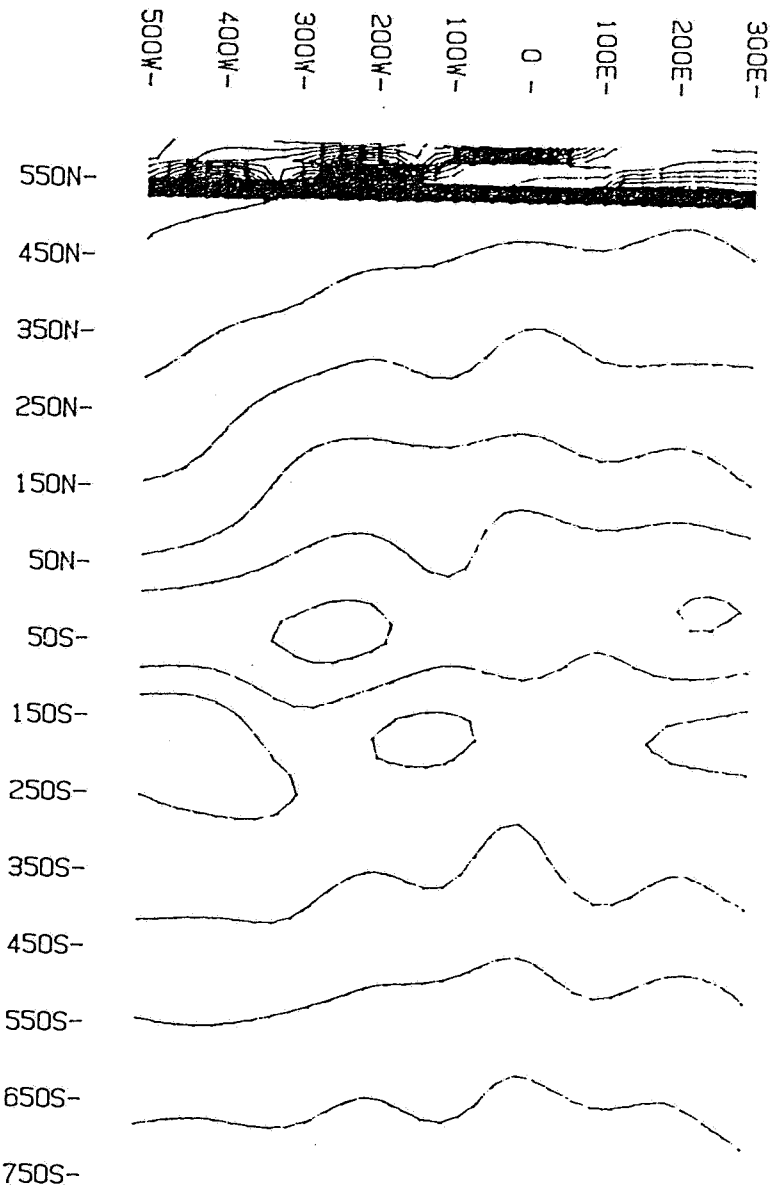
STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON

5436-1/W07

Compiled
Drawn
Date
Scale
Revised
SEG 1070



LINE/FID.: 1431.OS 135
CONTOUR INT: 20 nT
REF CONTOUR: 20 nT
SURVEY DATE: 24/06/83
SCALE: 1:10000
OPERATER: IP

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON 5436-1

W-13

Compiled	
Drawn	
Date	
Scale	
Revised	
SECTION	

	400W-	300W-	200W-	100W-	0 -	100E-	200E-	300E-	400E-
600N-	6309	6306	6309	6294	6310	6290	6295	6287	6279
500N-	6329	6328	6327	6314	6324	6328	6312	6299	6290
400N-	6343	6350	6347	6337	6355	6351	6341	6322	6309
300N-	6360	6364	6370	6370	6399	6399	6386	6351	6327
200N-	6375	6379	6398	6418	6453	6454	6455	6395	6345
100N-	6395	6399	6438	6502	6551	6585	6609	6449	6352
0 -	6409	6399	6496	6545	6579	6665	6502	6389	6342
100S-	6430	6411	6392	6369	6367	6354	6345	6340	6335
200S-	6442	6426	6410	6391	6389	6363	6351	6349	6345
300S-	6466	6449	6442	6412	6398	6393	6378	6369	6367
400S-	6491	6474	6487	6442	6431	6415	6401	6392	6386
500S-	6518	6502	6496	6474	6453	6448	6416	6414	6407
600S-	6547	6528	6516	6497	6483	6478	6458	6437	6428

LINE/FID: 1446.2S2414
DATUM LEVEL: 52000 nT.
DATE OF SURVEY: 19/04/83
OPERATER: DG
SCALE: 1:10000

N

STOCKDALE PROSPECTING LIMITED

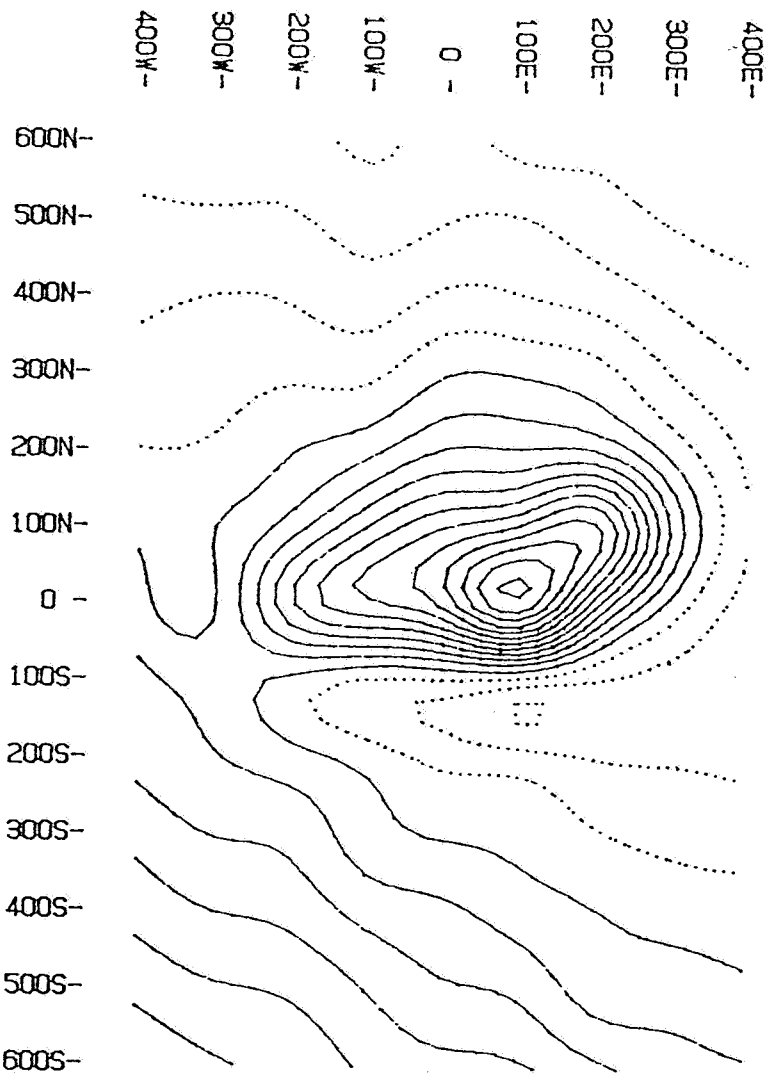
MAGNETOMETER DATA (nT.)

BARTON: H53-9

5436-1/W20

Compiled	
Drawn	
Date	
Scale	
Revised	

SEL G1098H



LINE/FID. : 1446.2S2414
CONTOUR INT: 25 nT
REF CONTOUR: 6400 nT
SURVEY DATE: 19/04/83
SCALE: 1:10000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON

5436-1/W20

Compiled
Drawn
Date
Scale
Revised
SELGIC&a

	500W-	400W-	300W-	200W-	100W-	0 -	100E-	200E-	300E-	400E-
600N-	49.2	46.4	68.3	51.4	25.5	11.9	19.4	10.4	7.6	11.9
500N-	38.3	29.6	22.4	11.8	1.2	4.4	14.9	10	11.5	14.4
400N-	31.9	19.9	15.9	10.9	7.6	10.8	25.3	23	30.3	42.6
300N-	35.6	26.5	26	25	29.7	29.3	47.2	44	61.5	86.2
200N-	37.2	31.9	30.6	39.3	43.3	48.2	68.8	84.1	83.7	64
100N-	39	42	44.7	66.7	69.2	75.5	102.4	147.2	91.9	47.4
0 -	50.7	51.1	63.4	86.1	103	122.1	122.3	96	48.4	44.5
100S-	48.7	56.4	66.3	95.6	115.1	111.8	77.9	48.1	47.2	53.9
200S-	60.2	62	63.2	71.6	76.5	67.7	74.5	57.8	66.8	71.8
300S-	64.7	65.8	66.6	65.2	64.2	72.2	87.7	80.9	83.3	92.7
400S-	77.4	78.2	80.3	83.4	82.4	87.6	105.2	98.6	103.8	111
500S-	97.9	96.8	102.1	104.4	107.3	118.5	139.3	136.6	132.5	121.2

LINE/FID: 1474.1S 829
DATUM LEVEL: 57937 nT.
DATE OF SURVEY: 02/12/82
OPERATER: JS
SCALE: 1:10000

N

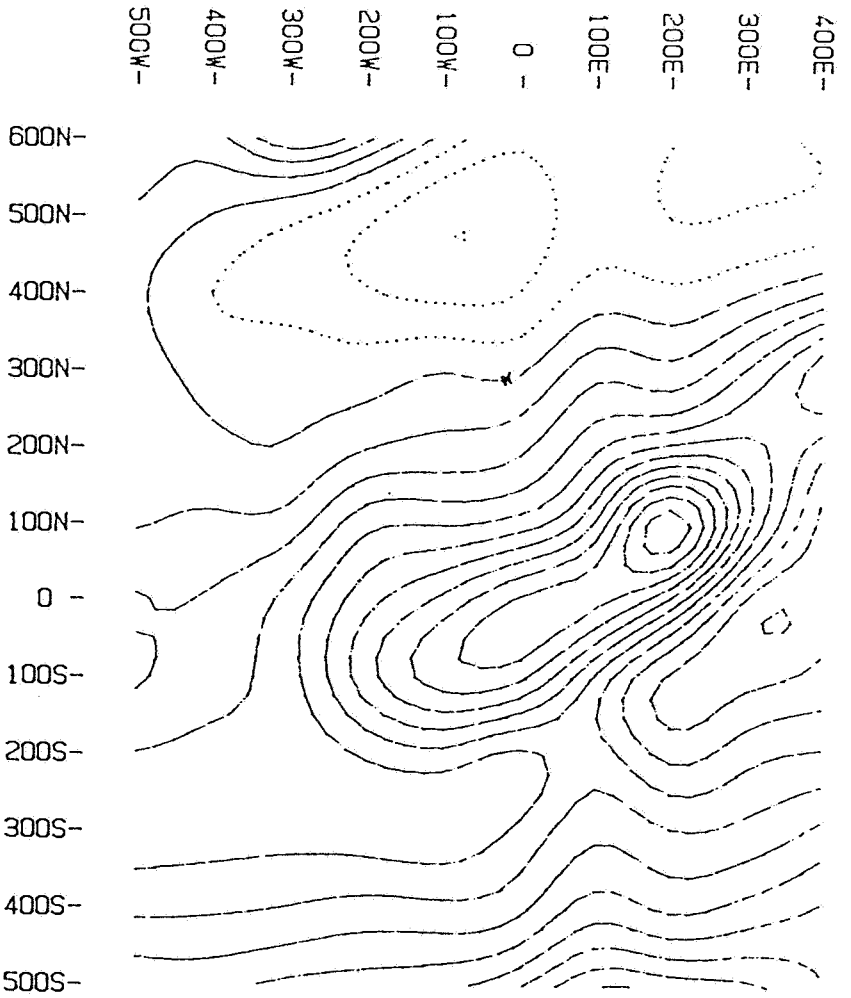
STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)

5436-4

E-09

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL GUGH	



LINE/FID.: 1474. 1S 829
CONTOUR INT: 10 nT
REF CONTOUR: 30 nT
SURVEY DATE: 02/12/82
SCALE: 1:10000
OPERATER: JS

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

5436-4

E-09

Compiled	
Drawn	
Date	
Scale	
Revised	

SELG1009

	300W-	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-
400N-	66.4	64.2	61.3	61.4	61.3	63.8	58.3	58.5	49.3	42.9	36.7	87.1	18.7
350N-	66	64.2	67.3	75.9	75.5	76	71.9	70.3	56.4	49.5	41.5	29.1	23.5
300N-	73.3	71.7	78	80.5	80	80.4	76.1	80	65.5	57.7	49.6	32.6	33.7
250N-	82.5	84.7	90.2	96.5	96.9	97.3	93.9	91.9	77.2	68	58.5	44.1	41.4
200N-	89.5	90.2	97.3	110.4	109.5	111	108.5	103.1	86.6	78.6	68.6	56.1	50.4
150N-	94.6	96.2	105.9	118.4	124	127.9	121.2	118.8	100.4	86.3	77.4	65.9	61.6
100N-	101.3	102.9	114	128.9	136	142.4	139.5	135	113.1	100.1	88.5	75.2	68.7
50N-	104	107.4	120.1	139.6	146.2	163.1	158.3	154.6	128	110.6	98.4	86	72.4
0 -	108.3	112.1	125.2	149.2	159.9	172.7	180.1	165.8	142.1	120.1	101.8	89.1	77.1
50S-	111	115.5	126.4	145.2	167	181.5	186.2	173.2	147.5	125.2	104.2	88.3	81.9
100S-	111.7	115.4	126.8	145.7	158	170.3	176.6	166.2	138	117.1	103.6	92	84.8
150S-	114.2	118.1	124.7	137.4	148.5	153.1	158	147.1	125.4	109.8	101.2	91	89.2
200S-	117.5	118	123.3	131.2	138.1	141.1	136.1	125.3	109.5	99.3	93.3	83.8	83.4
250S-	117.5	118.9	121.2	126.8	128.1	125.6	122.8	114.2	104.3	98	91.8	88.1	86.3
300S-	124.2	120.4	121.3	126.5	122.6	118.5	116.4	110.8	102	97.7	95.2	93.6	91.8
350S-	132.9	127.8	126.3	132.1	123.7	117.7	116	114	107.5	104.9	103.5	109.3	102.3
400S-	137.1	133.8	133	141.5	132	124.9	119.6	119.5	116.6	114.9	112.8	105.8	104.2
450S-	151	145.8	142.7	152.2	137.3	130	127	129.2	122.8	119.8	118.6	113.6	111.3
500S-	158.2	153.1	154.2	157.5	148.4	142.1	138.1	137.8	131.5	129.3	127.8	123.5	123.1
550S-	167.8	163.4	160.9	161.8	156.3	154.1	149	146.8	143.4	138.9	136.1	134.8	133.4

LINE/FID: 1472.2N 2988-3001
DATUM LEVEL: 58237.6 nT.
DATE OF SURVEY: 11/05/83
OPERATER: IP
SCALE: 1:5000

N

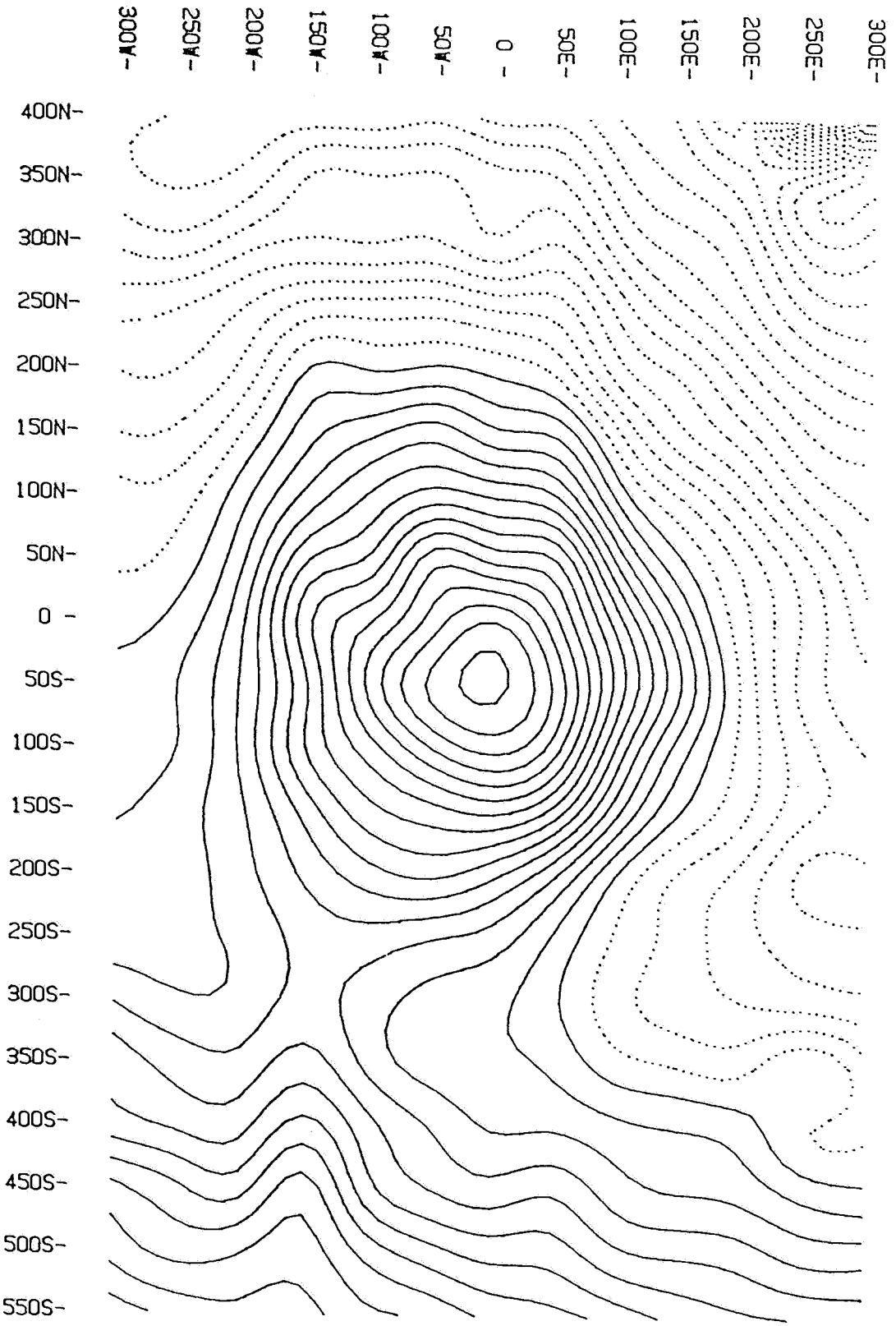
STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)

BARTON 5436-4

E-12

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	Gillb



LINE/FID.: 1472.2N 2988-3001
CONTOUR INT: 5 nT
REF CONTOUR: 110 nT
SURVEY DATE: 11/05/83
SCALE: 1:5000
OPERATER: IP

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON 5436-4
E-12

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	Gilka

	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-	350E-
500N-	+	+	+	+ 0	+	+	+	+	+	+	+
450N-	+	+	+	+ 18.4	+	+	+	+	+	+	+
400N-	+ 8.9	+ 22.4	+ 35.7	+ 39.2	+ 45.7	+ 47.4	+ 45.4	+ 38.1	+ 31.3	+ 28.8	+ 17.4
350N-	+ 23.5	+ 38.7	+ 51.5	+ 61.3	+ 65.5	+ 67.1	+ 58.2	+ 49.3	+ 33.2	+ 31.5	+ 17.5
300N-	+ 40.2	+ 54.9	+ 62.2	+ 74.2	+ 75	+ 75.4	+ 69	+ 65.4	+ 53.7	+ 44.1	+ 25
250N-	+ 50.5	+ 62.6	+ 70.7	+ 79	+ 84	+ 94.8	+ 89.4	+ 89.5	+ 75.3	+ 66.2	+ 31.9
200N-	+ 65.3	+ 73.7	+ 80.2	+ 89.3	+ 95.8	+ 103.8	+ 102.8	+ 103.2	+ 89.1	+ 71.3	+ 48.9
150N-	+ 77.6	+ 84.5	+ 94	+ 106.8	+ 113.7	+ 124.7	+ 126.8	+ 122.7	+ 99.6	+ 68.2	+ 48.2
100N-	+ 81	+ 92.7	+ 101.5	+ 114.4	+ 123.7	+ 136.9	+ 145.3	+ 135	+ 98.8	+ 69.7	+ 50.9
50N-	+ 86.5	+ 95.5	+ 103	+ 120.4	+ 129.8	+ 147.7	+ 149.8	+ 136.2	+ 98.2	+ 77.8	+ 57.5
0 -	+ 93.5	+ 105.5	+ 108.2	+ 128.2	+ 138.7	+ 157.8	+ 145.1	+ 116.8	+ 84.1	+ 70.8	+ 63.5
50S-	+ 96.5	+ 108.7	+ 110	+ 133.4	+ 146.2	+ 160.8	+ 121	+ 98.8	+ 78.8	+ 76.2	+ 74.7
100S-	+ 103.7	+ 109.5	+ 105.5	+ 124.3	+ 138.5	+ 143.8	+ 103.2	+ 90.1	+ 78	+ 82.8	+ 86.4
150S-	+ 108.8	+ 107.1	+ 99.4	+ 108	+ 100.3	+ 102.8	+ 93	+ 92.9	+ 85.9	+ 96.7	+ 100.3
200S-	+ 107.2	+ 108.3	+ 97.5	+ 100.7	+ 88.8	+ 94.4	+ 92.1	+ 101.8	+ 102.3	+ 118.1	+ 127.2
250S-	+ 107.7	+ 110.8	+ 103.2	+ 110	+ 101	+ 110	+ 108.9	+ 118	+ 122.3	+ 128.7	+ 134.9
300S-	+ 108.4	+ 116.2	+ 111.8	+ 122.3	+ 118.3	+ 127.6	+ 130.8	+ 141.7	+ 144.1	+ 152.3	+ 158
350S-	+ 116.2	+ 125.5	+ 127.2	+ 133.3	+ 130.2	+ 139.7	+ 141.9	+ 153.2	+ 161.6	+ 170	+ 173.7
400S-	+ 132.9	+ 137.3	+ 140	+ 150.3	+ 151.4	+ 159.4	+ 158.4	+ 169.3	+ 176.4	+ 184	+ 196.9

LINE/FID: 1470.GN 1700-1708
DATUM LEVEL: 58554.9 nT.
DATE OF SURVEY: 06/05/83
OPERATER: IP
SCALE: 1:5000

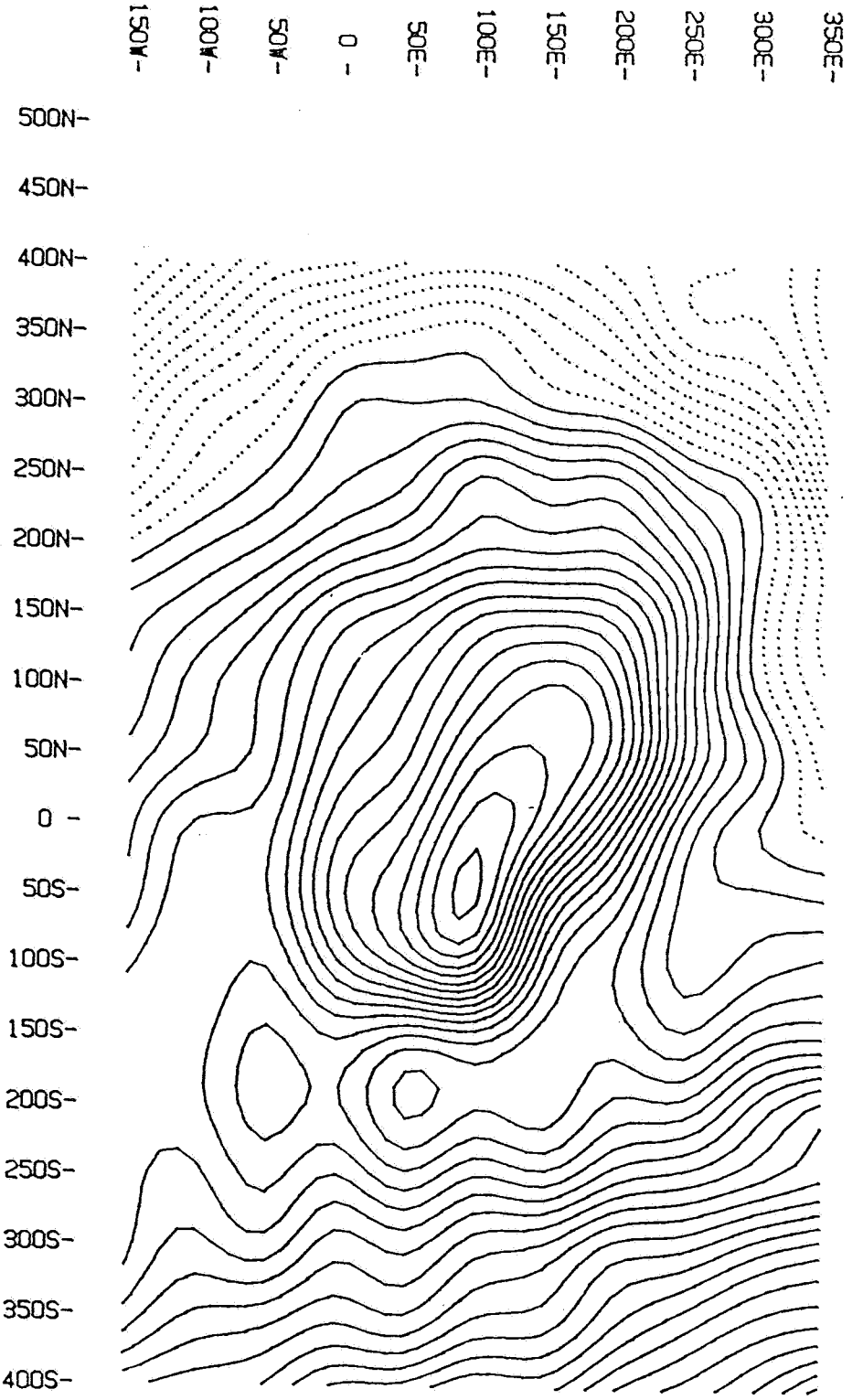
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STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5436-4
E-13

Compiled	
Drawn	
Date	
Scale	
Revised	

SEL G1126



LINE/FID.: 1470 ON 1700-1708
CONTOUR INT: 5 nT
REF CONTOUR: 70 nT
SURVEY DATE: 06/05/83
SCALE: 1:5000
OPERATER: IP

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON 5436-4

E-13

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	G112a

	400W-	350W-	300W-	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-
500N-	60.9	51.8	42.5	26.6	18.4	11.7	19.2	12.2	16.9	19.5	16.5	11.8	13.5	9.3	53.4
450N-	55.3	44.8	31.2	21.1	17.2	11.5	18.9	10	14.6	12.8	10.4	7.2	1.7	5.1	9.1
400N-	50.5	34.4	24.9	18.4	14.8	11.4	19.8	13.9	17.6	12.2	9.7	7.4	0	12.8	10.3
350N-	54.8	35.2	23.3	16.8	15	12.3	19.3	17.5	20.1	18.7	11.5	13.1	5.3	13.4	14.3
300N-	46	33.2	24.7	20.2	18.9	20.9	30.8	25.3	33.4	26.1	19.4	22.4	10.9	18	15.4
250N-	45.4	36.2	24.8	19.6	20.9	25.3	37.1	34.4	40.4	32.8	28.1	27.7	15.7	22.7	20.7
200N-	44.7	34.7	28	17.9	23.4	25.9	39.2	39.6	46.8	36.4	32.8	33.3	22.3	28.1	31.3
150N-	35.5	27.1	21	21.7	28.5	30	42.5	42.7	51.3	40.7	39.1	35.9	24.8	28.1	28.2
100N-	26.7	20.8	19.6	21.7	30	37.7	50.9	49.5	52	45.4	43.5	38.7	27.3	28.8	28.4
50N-	19.1	17.2	14.2	19.8	29.1	35.5	55	58.6	66.2	52.2	46.9	37.1	25.3	26.5	25.9
0 -	16.9	12	15	19.6	31.6	42.7	64.6	76.3	77.7	53.8	43.9	39.7	30	28.8	24.7
50S-	15	13.2	20.7	24.7	39.5	54.1	81.5	86.8	81.8	53.8	41	38.7	30.5	28.2	21.7
100S-	14	12.5	21.8	24	43.5	62.4	95.1	92.7	70.7	49.7	38.3	37.9	29.6	32.8	24.2
150S-	21.7	19.8	31.6	28.5	45.1	66.5	91.9	78.1	56.3	38.2	33.8	34.8	28.7	29.9	24.6
200S-	16.6	16.4	24	30	45	62.4	70.1	52.2	43.7	34.2	35.6	36.2	29	27.8	20.9
250S-	13.9	19.9	33	36	42.3	54.6	45.9	35.2	30.7	29.2	31.3	34.2	30.8	26.4	23.1
300S-	18.5	18.3	35	40.1	41.1	43.9	37.7	24.7	24.8	25.9	23.7	28.5	29.3	31.1	21.7
350S-	25.6	25.8	36.9	39.6	43.4	34.5	29.4	23	26	24.9	27.4	28.3	31.9	34.4	27.8
400S-	34.1	36.3	44.1	47.4	45.6	35.1	27.7	22.5	26	28.8	31.2	34.2	36.5	37.1	28
450S-	26.4	29.5	44.1	41.5	35.6	28.4	28.3	23	29.3	28.2	28.7	35.7	34	34.1	26.4
500S-	25.7	29.1	40.1	38.2	30.3	24.7	33.1	25.6	31.7	32.5	36.1	47.4	39.5	37.5	27.4

LINE/FID: 1462.ON 1031-1005
DATUM LEVEL: 57902.2 nT.
DATE OF SURVEY: 13/05/83
OPERATER: RM
SCALE: 1:5000

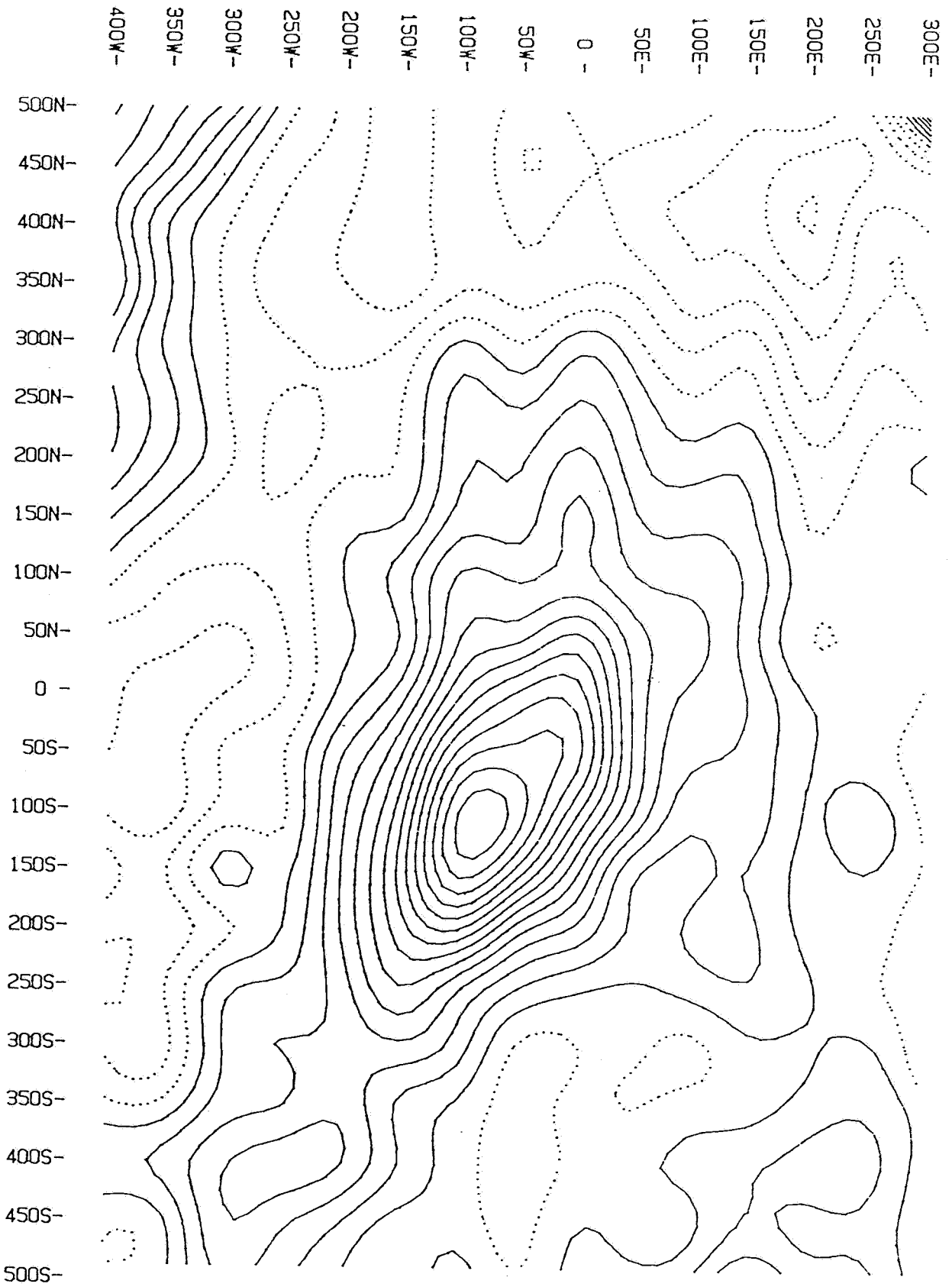
N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5436-4
E-16

Compiled	
Drawn	
Date	
Scale	
Revised	

SEL G113b



LINE/FID.: 1462.ON 1031-1005
CONTOUR INT: 5 nT
REF CONTOUR: 30 nT
SURVEY DATE: 13/05/83
SCALE: 1:5000
OPERATER: RM

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON 5436-4

E-16

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	G1130

	300W	250W	200W	150W	100W	50W	0	50E	100E	150E	200E	250E	300E
500N	118.9	60.4	44.1	42.7	44.3	55.8	55.7	48.4	44.1	43.1	36.9	45.7	54.7
450N	93.9	57.7	43.7	45.3	47.6	58.6	60.9	58.4	62.8	59.8	54.4	69	71.3
400N	44.9	55.2	51	53.9	61.6	72.8	73	72.3	85.9	81.6	76.2	83.6	85
350N	26.4	42.8	51.9	66.2	79.9	95.5	91.3	83.6	94.9	89.6	92.1	84.8	99.8
300N	28.6	39.7	56.9	80.6	94.4	111.9	110.9	97.2	107	102.7	119.6	96.1	87.1
250N	36.3	48.3	63.6	92.5	110.8	136.1	129.2	107.4	114.3	114	130.9	119.8	89.9
200N	49.1	61.2	70.4	93	132.4	165.2	153.4	122.8	122.1	116.1	124.3	125.6	101.1
150N	67	68	74.7	93.7	144.4	199.3	186.4	144.6	131.1	119.4	111.6	111.5	108.9
100N	71.6	75	85	101.4	144.5	222.2	234	168.2	142.6	122.9	110.6	92.6	108.7
50N	84.8	85	89.3	110.6	157.7	223.4	251.3	199.7	163.1	134.2	115.5	107.4	102.6
0	97.2	96.1	96.7	112.5	162.7	226.7	256	232.5	171.7	136.7	119.7	110.4	110.2
50S	110.3	107.5	99.7	125.3	205.5	215.7	214.7	263.8	187.1	146.3	125.5	116.1	116.8
100S	107.1	112.7	106.1	119.7	233.1	177.4	166	242	216.6	160	137.3	124.2	127.5
150S	108.9	117	107.8	112.7	171.9	164.8	153.5	176	278.1	185.4	150.1	133.8	137
200S	115.5	124.9	122.7	117.2	163.3	207.2	158.9	167.6	281.8	205.9	158.1	144.8	148.5
250S	128.5	137.6	139.3	127.8	131.6	178.4	148.9	134.4	184.5	225.5	160.9	149.5	154.5
300S	124	138.9	154.3	145.2	121.6	122.7	119.4	114.5	160.7	185.7	163	157.6	167.9
350S	124.3	138.6	165.7	143.8	114.2	117.6	114.6	121.4	158.7	186.6	183.4	174.4	181.5
400S	128.6	127.3	141.1	139.1	117.9	125.6	120.7	127.8	156	186	203.6	189.9	186.2
450S	133.4	132	131.4	132.1	131.8	142.6	129.7	129.5	142.5	162.2	188.2	189.1	175.4
500S	141.1	135.7	134.1	138.9	140.2	152.2	154.1	140.6	146.4	153	170.8	169	166.9

1504-1S 5019-5039

LINE/FID:
DATUM LEVEL: 57661.3 nT.
DATE OF SURVEY: 23/05/83
OPERATER: TSB
SCALE: 1:5000

N

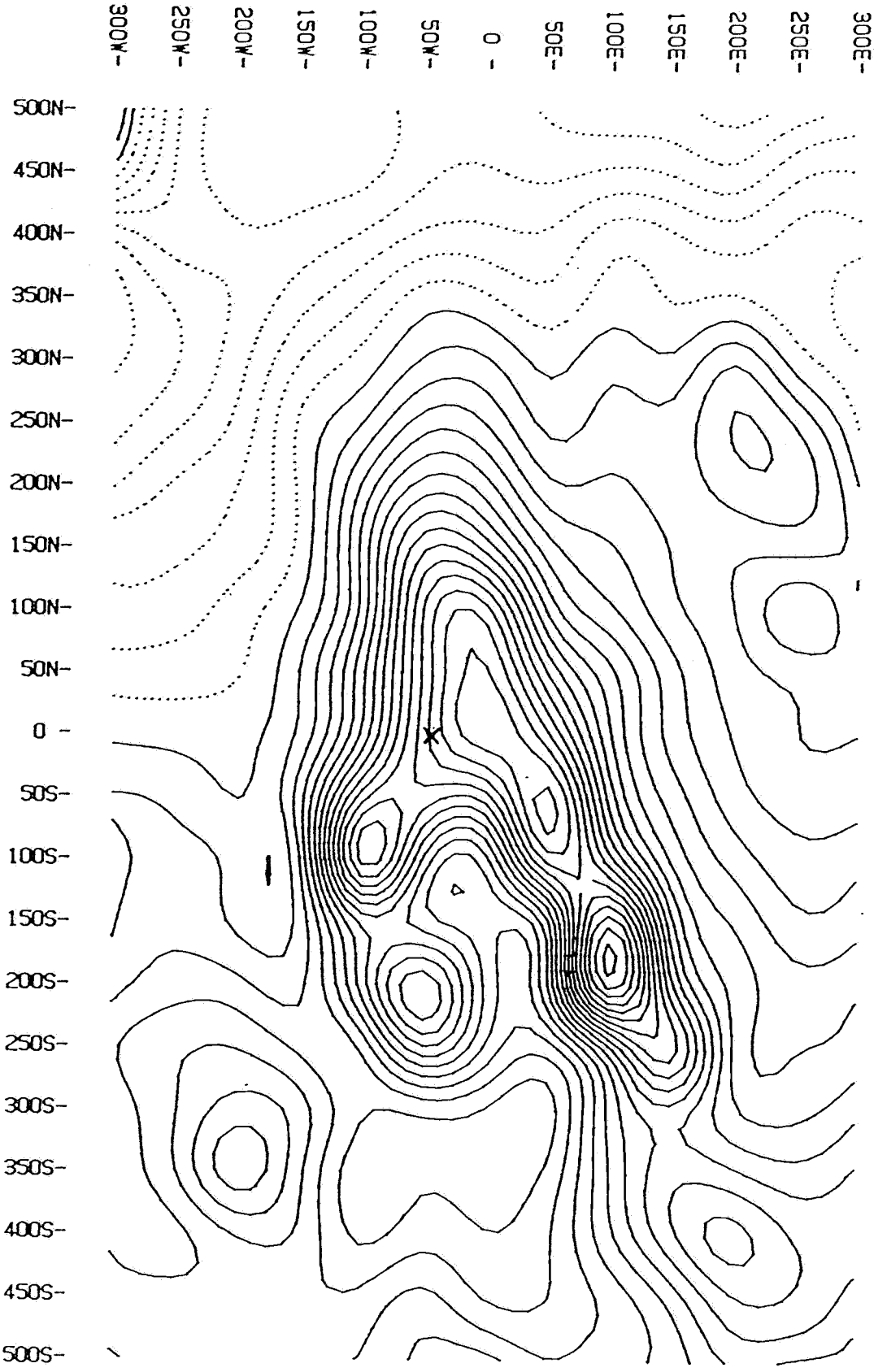
STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)

BARTON H53-9

5436-4/E-17

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL Gulch	



X QTZ OUTCROP - SMALL SHAFT

LINE/FID.:
CONTOUR INT: 10 nT
REF CONTOUR: 100 nT
SURVEY DATE: 23/05/83
SCALE: 1:5000
OPERATER: TSB

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON H53-9

5436-4/E-17

Compiled	
Drawn	
Date	
Scale	
Revised	

SELG116a

	350W-	300W-	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-
500N-	+ 1	+ 0	+ 2	+ 2	+ 8	+ 7	+ 9	+ 12	+ 16	+ 12	+ 14	+ 12	+ 16	+ 16
450N-	+ 5	+ 2	+ 2	+ 3	+ 8	+ 19	+ 13	+ 15	+ 16	+ 15	+ 16	+ 12	+ 19	+ 18
400N-	+ 5	+ 7	+ 7	+ 8	+ 8	+ 8	+ 17	+ 20	+ 21	+ 18	+ 18	+ 17	+ 21	+ 20
350N-	+ 7	+ 7	+ 9	+ 11	+ 13	+ 13	+ 18	+ 22	+ 19	+ 17	+ 22	+ 22	+ 27	+ 27
300N-	+ 9	+ 7	+ 11	+ 13	+ 15	+ 15	+ 18	+ 18	+ 20	+ 20	+ 28	+ 28	+ 35	+ 39
250N-	+ 11	+ 13	+ 15	+ 15	+ 22	+ 20	+ 23	+ 24	+ 24	+ 28	+ 28	+ 29	+ 31	+ 28
200N-	+ 13	+ 12	+ 18	+ 20	+ 25	+ 26	+ 29	+ 30	+ 28	+ 27	+ 30	+ 27	+ 28	+ 25
150N-	+ 15	+ 15	+ 20	+ 24	+ 33	+ 33	+ 38	+ 39	+ 35	+ 31	+ 31	+ 29	+ 32	+ 29
100N-	+ 17	+ 17	+ 23	+ 30	+ 38	+ 41	+ 49	+ 50	+ 43	+ 35	+ 37	+ 31	+ 33	+ 30
50N-	+ 20	+ 21	+ 27	+ 35	+ 48	+ 57	+ 88	+ 85	+ 52	+ 40	+ 39	+ 34	+ 34	+ 31
0 -	+ 24	+ 27	+ 29	+ 38	+ 60	+ 81	+ 92	+ 77	+ 58	+ 47	+ 41	+ 35	+ 37	+ 35
50S-	+ 26	+ 27	+ 31	+ 37	+ 58	+ 101	+ 114	+ 90	+ 61	+ 43	+ 36	+ 34	+ 36	+ 34
100S-	+ 25	+ 28	+ 29	+ 33	+ 44	+ 87	+ 109	+ 79	+ 53	+ 39	+ 34	+ 30	+ 32	+ 31
150S-	+ 29	+ 28	+ 30	+ 28	+ 30	+ 41	+ 52	+ 47	+ 36	+ 33	+ 30	+ 27	+ 31	+ 32
200S-	+ 32	+ 33	+ 37	+ 33	+ 33	+ 29	+ 29	+ 30	+ 28	+ 27	+ 31	+ 32	+ 32	+ 32
250S-	+ 37	+ 42	+ 45	+ 39	+ 41	+ 30	+ 29	+ 29	+ 29	+ 28	+ 33	+ 38	+ 44	+ 38
300S-	+ 43	+ 53	+ 59	+ 52	+ 54	+ 38	+ 32	+ 29	+ 30	+ 28	+ 34	+ 34	+ 41	+ 45
350S-	+ 45	+ 64	+ 68	+ 50	+ 45	+ 42	+ 37	+ 32	+ 34	+ 32	+ 38	+ 38	+ 42	+ 47
400S-	+ 50	+ 57	+ 52	+ 45	+ 40	+ 36	+ 37	+ 37	+ 39	+ 36	+ 40	+ 41	+ 44	+ 46
450S-	+ 52	+ 55	+ 51	+ 41	+ 39	+ 37	+ 38	+	+ 43	+ 39	+ 43	+ 42	+ 47	+ 48
500S-	+ 53	+ 52	+ 45	+ 41	+ 40	+ 39	+ 40	+	+ 50	+ 45	+ 46	+ 46	+ 50	+ 52

LINE/FID: 1454.1S 4937
DATUM LEVEL: 57978.4 nT.
DATE OF SURVEY: 02/09/83
OPERATER: DG
SCALE: 1:5000

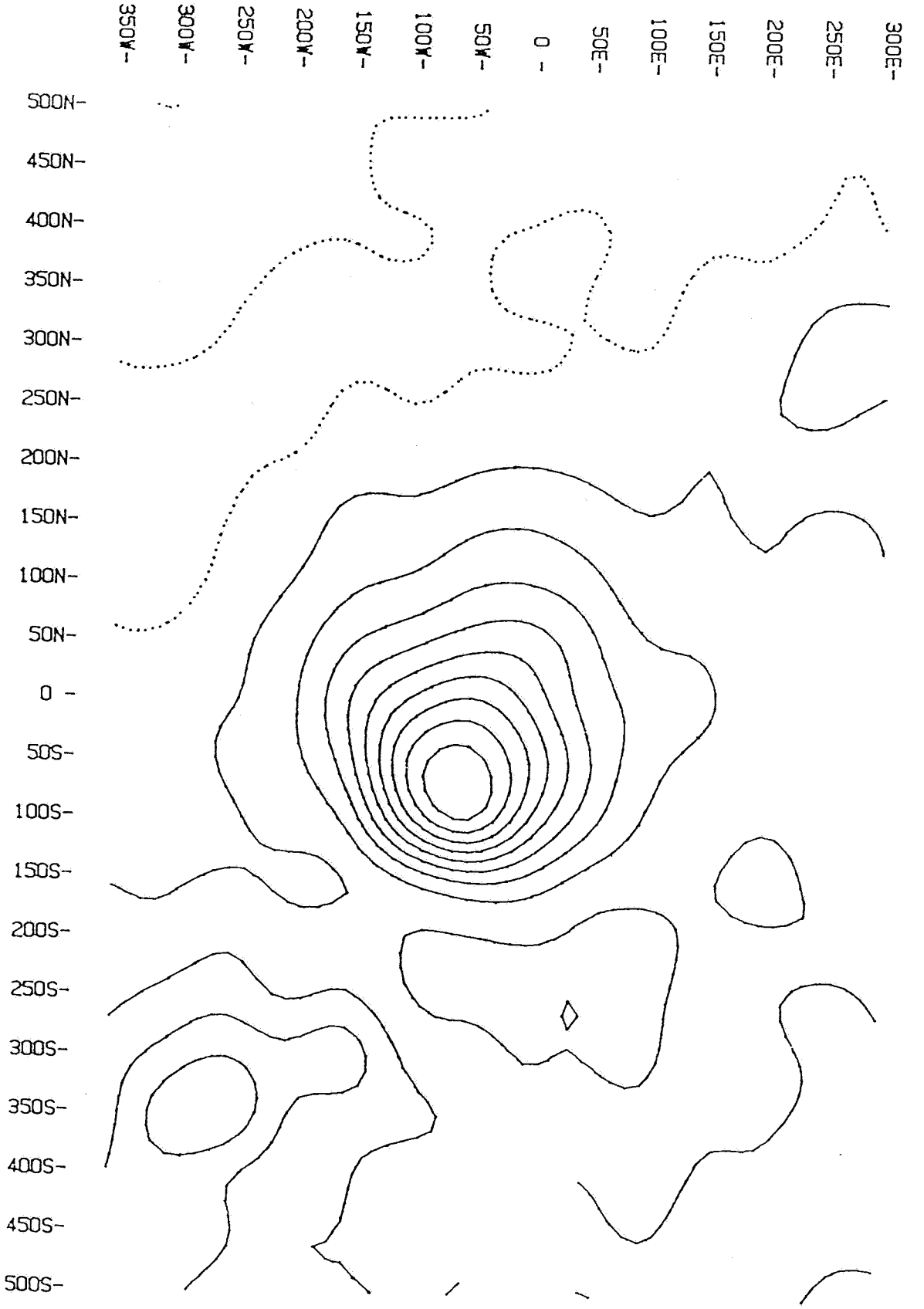
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STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5436-1: H53-9
W11

Compiled
Drawn
Date
Scale
Revised

SELG-1216



LINE/FID.: 1454.1S 4937
CONTOUR INT: 10 nT
REF CONTOUR: 30 nT
SURVEY DATE: 02/09/83
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON 5436-1
W11

Compiled	
Drawn	
Date	
Scale	
Revised	
SELG121a	

	500W-	400W-	300W-	200W-	100W-	0 -	100E-	200E-	300E-
550N-	12.1	15	20.7	30.7	26.4	25.2	27	34.2	28.9
450N-	21.4	29.8	33.8	37.9	40.2	46	42.8	45.8	41.2
350N-	28.8	40.6	46.4	54.7	52.3	61.8	56.3	55.3	55.5
250N-	48	56	69	73.1	69.1	75.4	70.3	73.3	68.8
150N-	60.8	68.1	85.9	92	92.5	96.2	88.7	91.6	82.9
50N-	83.5	91.6	103.7	107.5	98.4	109.9	108.7	114.6	114.2
50S-	114.3	114.3	122.7	123.1	107	111.5	101	113.7	111.4
150S-	68.6	73.2	95	84.3	77.4	86.9	85.6	79.8	74.9
250S-	79.7	76.2	79.5	87.2	88.2	96.3	86.5	88.5	86.7
350S-	88.2	88.6	92.2	100.2	98.3	105.8	95.4	100.3	94
450S-	107	106.9	105.4	113.3	112.3	119.1	110.2	115.1	111.9
550S-	120.9	119.8	122.8	127.2	130.9	134.1	126.8	132.2	123.7
650S-	135.7	136.2	134.4	141.2	137	144	140.1	140.8	132.8
750S-	148.1	150.7	155.9	155.5	157.2	158.2	151.9	155.2	149.2

LINE/PTD: 1431.0S 13S
DATUM LEVEL: 58100 nT.
DATE OF SURVEY: 24/06/83
OPERATER: IP
SCALE: 1:10000

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)

BARTON 5436-1

W-13

Compiled	
Drawn	
Date	
Scale	
Revised	

	600W-	550W-	500W-	450W-	400W-	350W-	300W-	250W-	200W-	150W-	100W-	50W-	0 -
300N-	0	2	5	19	29	36	45	51	55	64	84	91	95
250N-	4	11	9	21	27	38	45	50	58	68	82	86	83
200N-	8	10	12	24	38	46	48	52	62	67	73	69	67
150N-	13	20	20	26	36	51	58	64	69	64	63	61	62
100N-	17	25	27	33	42	57	71	80	75	60	52	53	59
50N-	15	22	27	35	46	74	111	135	93	65	62	62	68
0 -	18	26	32	40	63	118	186	191	104	65	58	59	61
50S-	20	25	31	47	85	164	268	224	112	73	62	62	61
100S-	23	26	30	41	65	165	290	237	112	71	58	59	58
150S-	23	24	32	32	43	107	199	192	95	68	59	61	58
200S-	27	24	27	25	29	52	97	109	70	54	59	64	68
250S-	29	25	25	22	24	24	40	58	51	56	67	76	81
300S-	19	25	29	24	26	22	25	38	42	56	74	97	100
350S-	22	20	20	19	20	22	24	33	41	57	81	118	107
400S-	17	19	21	21	22	25	27	33	40	57	75	98	114
450S-	14	18	22	21	26	32	36	41	47	59	73	97	119
500S-	11	20	21	25	33	37	46	57	59	70	86	103	118

LINE/FID: 1465.1S 7025
DATUM LEVEL: 57622.5 nT.
DATE OF SURVEY: 02/08/83
OPERATER: RM
SCALE: 1:5000

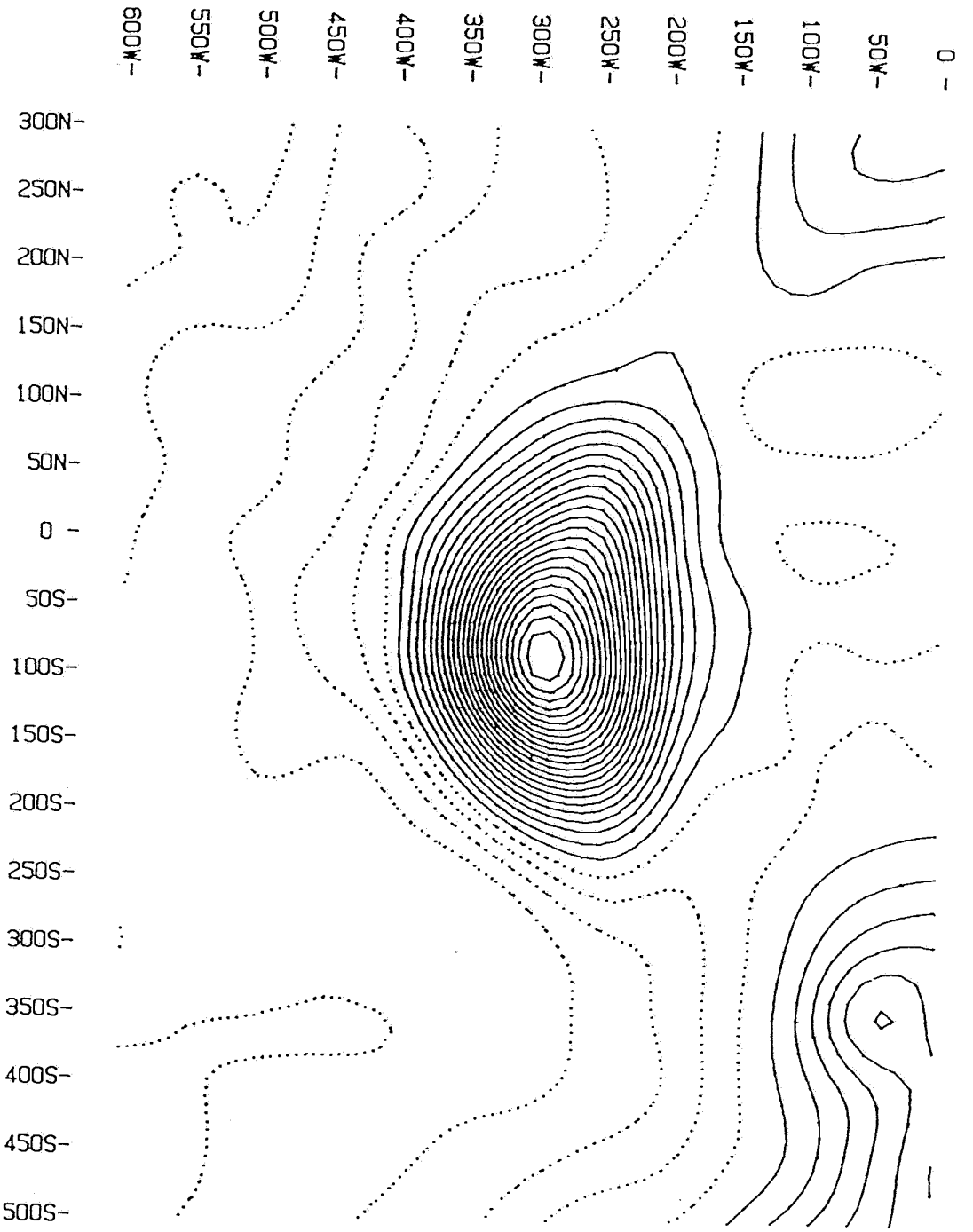
N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5437-1: H53-9
E05

Compiled	
Drawn	
Date	
Scale	
Revised	

SELG 120b



LINE/FID.: 1465.1S 7025
CONTOUR INT: 10 nT
REF CONTOUR: 70 nT
SURVEY DATE: 02/08/83
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON 5437-1

E05

Compiled	
Drawn	
Date	
Scale	
Revised	
SELGRAPH	

	300W-	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-	350E-	400E-
500N-	130	88	74	83	84	82	102	115	97	82	41	29	24	18	18
450N-	129	101	96	90	95	108	121	110	77	40	34	21	23	24	25
400N-	144	124	124	120	115	107	90	58	35	23	25	28	38	24	34
350N-	185	154	158	142	114	89	58	30	24	28	38	33	40	35	41
300N-	192	172	159	131	83	54	38	28	31	48	55	47	52	41	48
250N-	174	134	99	68	40	31	35	38	48	60	68	62	63	52	57
200N-	93	59	43	31	30	40	50	59	71	81	84	74	75	64	65
150N-	55	23	21	20	29	48	70	80	98	108	100	88	78	64	62
100N-	38	17	20	29	43	69	94	109	130	138	131	98	82	71	71
50N-	18	12	28	47	68	92	113	140	170	177	144	101	85	75	75
0 -	7	22	46	64	88	118	127	155	180	173	130	95	77	71	71
50S-	20	37	62	81	109	141	141	147	145	120	97	79	77	71	81
100S-	29	48	68	92	127	148	148	122	102	79	74	68	74	77	87
150S-	42	59	78	97	141	173	143	92	70	61	65	65	72	73	88
200S-	53	57	68	67	103	138	99	57	51	57	66	68	77	79	87
250S-	48	44	45	42	58	69	49	49	50	59	69	71	77	75	84
300S-	39	33	35	28	34	40	42	48	50	58	66	70	77	78	83
350S-	42	46	41	37	43	48	51	57	56	64	74	74	80	83	91
400S-	47	48	51	50	58	60	62	67	65	74	84	80	85	82	94
450S-	61	59	62	60	67	67	65	69	72	82	87	86	92	91	103
500S-	70	68	73	73	75	80	75	80	81	87	95	95	103	103	105

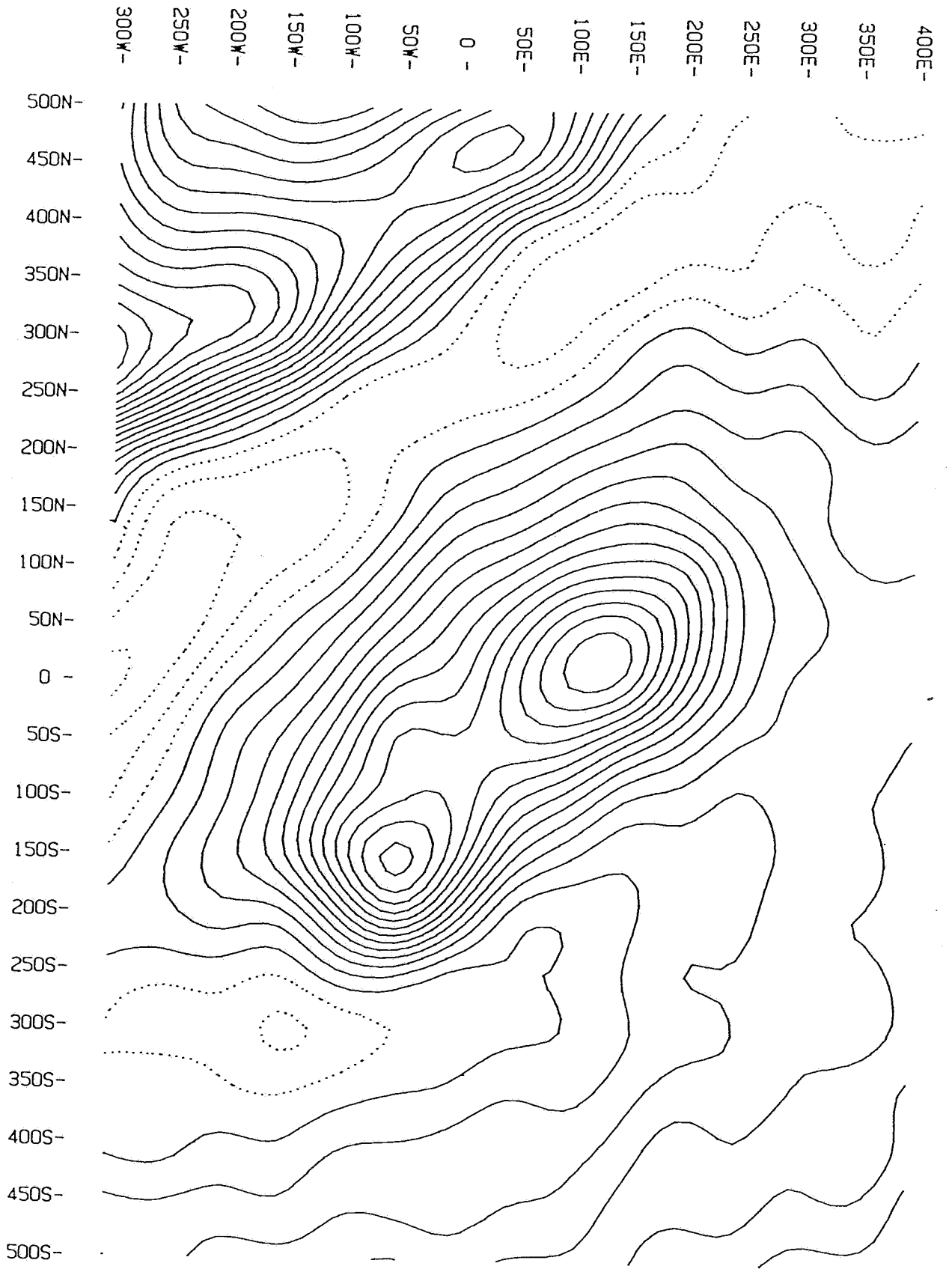
LINE/FID: 1459.2S 2085
DATUM LEVEL: 57482.6 nT.
DATE OF SURVEY: 08/08/83
OPERATER: DG
SCALE: 1:5000

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5437-2: H53-9
W03

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL G1256	



LINE/FID.: 1459.2S 2085
CONTOUR INT: 10 nT
REF CONTOUR: 50 nT
SURVEY DATE: 08/08/83
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON 5437-2

W03

Compiled	
Drawn	
Date	
Scale	
Revised	

	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-
400N-	140	108	72	89	82	102	118	104	49	38	20
350N-	128	101	70	72	91	126	140	101	44	22	8
300N-	124	107	78	77	98	140	147	89	40	19	1
250N-	125	107	87	80	107	154	144	82	37	25	3
200N-	124	100	82	90	116	166	135	78	30	20	8
150N-	118	89	84	82	140	214	158	90	50	35	13
100N-	112	90	74	91	172	283	190	103	55	40	16
50N-	100	74	62	84	176	270	179	85	45	34	12
0 -	91	66	58	89	170	231	142	80	52	35	12
50S-	75	58	44	86	162	205	122	83	52	33	13
100S-	66	54	44	74	132	148	94	71	52	39	17
150S-	57	53	48	70	98	98	88	67	53	43	20
200S-	47	47	48	70	83	74	48	51	50	49	25
250S-	38	42	51	74	73	58	38	35	34	42	28
300S-	30	41	59	89	83	59	37	25	20	31	19
350S-	19	34	57	95	92	67	34	29	18	22	7
400S-	19	38	63	102	112	89	61	50	24	14	0

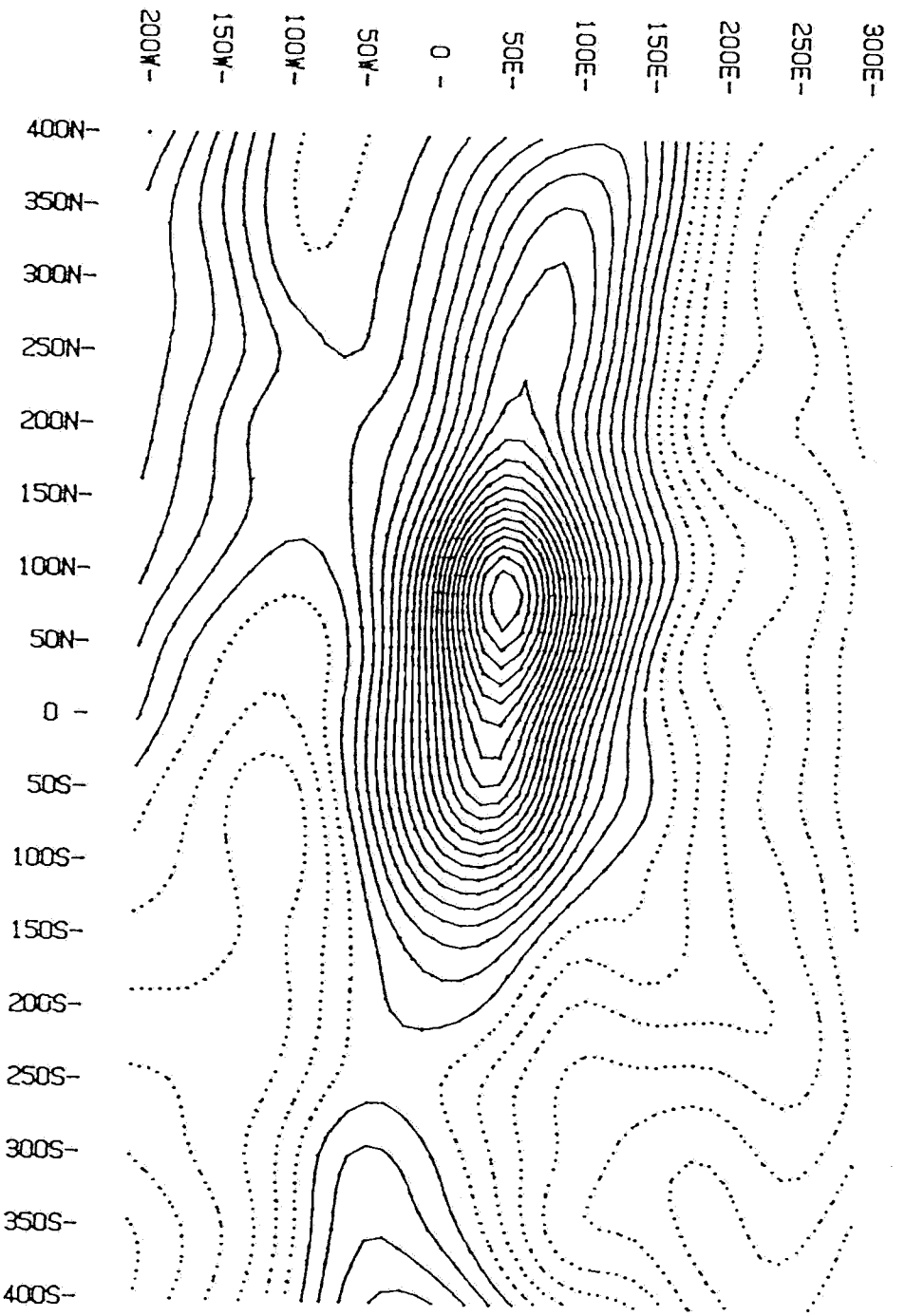
LINE/FID: 1592.0S 3238
DATUM LEVEL: 57179.1 nT.
DATE OF SURVEY: 11/08/83
OPERATER: DG
SCALE: 1:5000

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5437-4: H53-9
W03

Compiled	
Drawn	
Date	
Scale	
Revised	
SELG119b	



LINE/FID.: 1592.0S 3238
CONTOUR INT: 10 nT
REF CONTOUR: 80 nT
SURVEY DATE: 11/08/83
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON 5437-4

W03

Compiled	
Drawn	
Date	
Scale	
Revised	
SELG119a	

APPENDIX IV

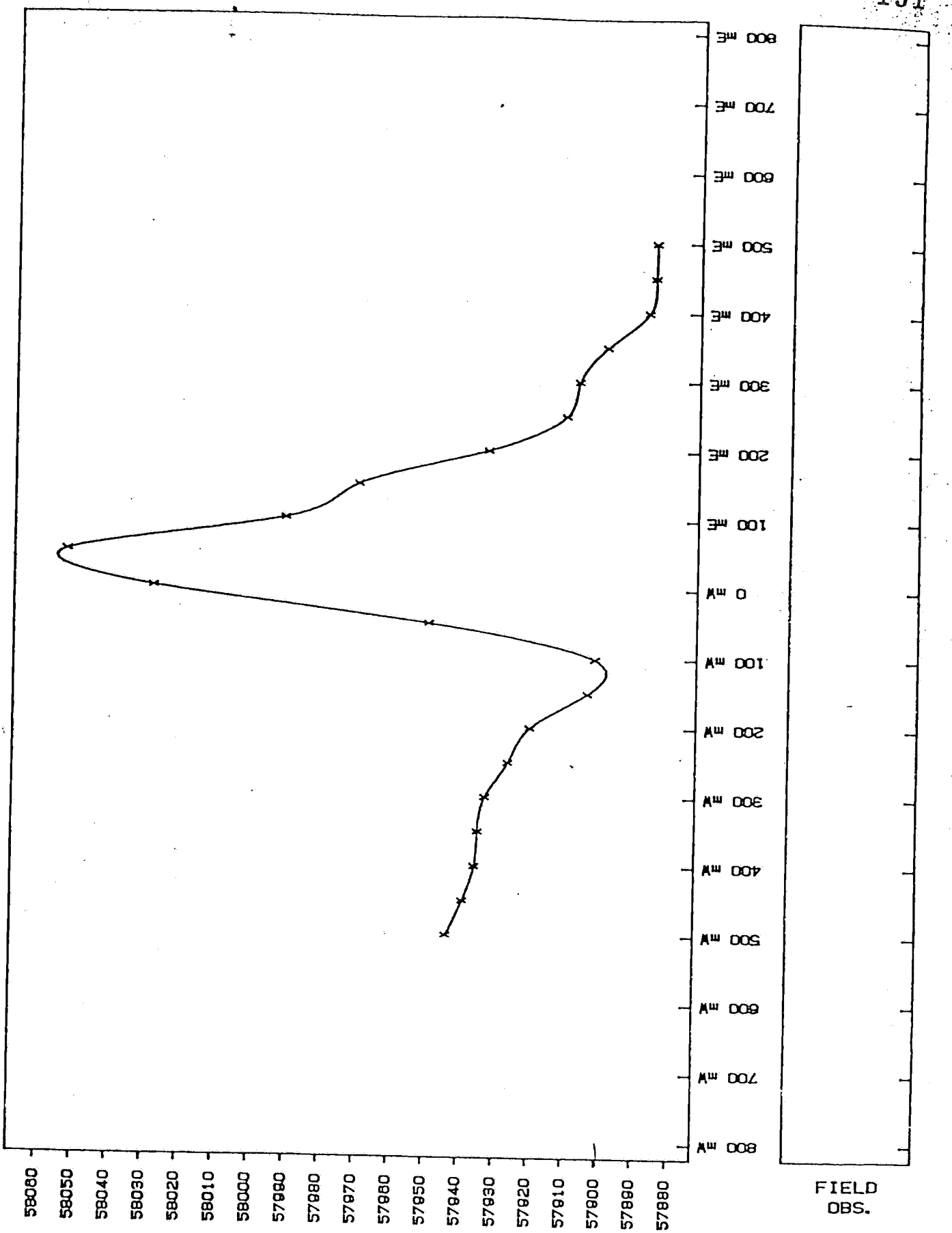
14th and 15th Quarter to 2 March, 1987

Ground magnetic data

EL 1150

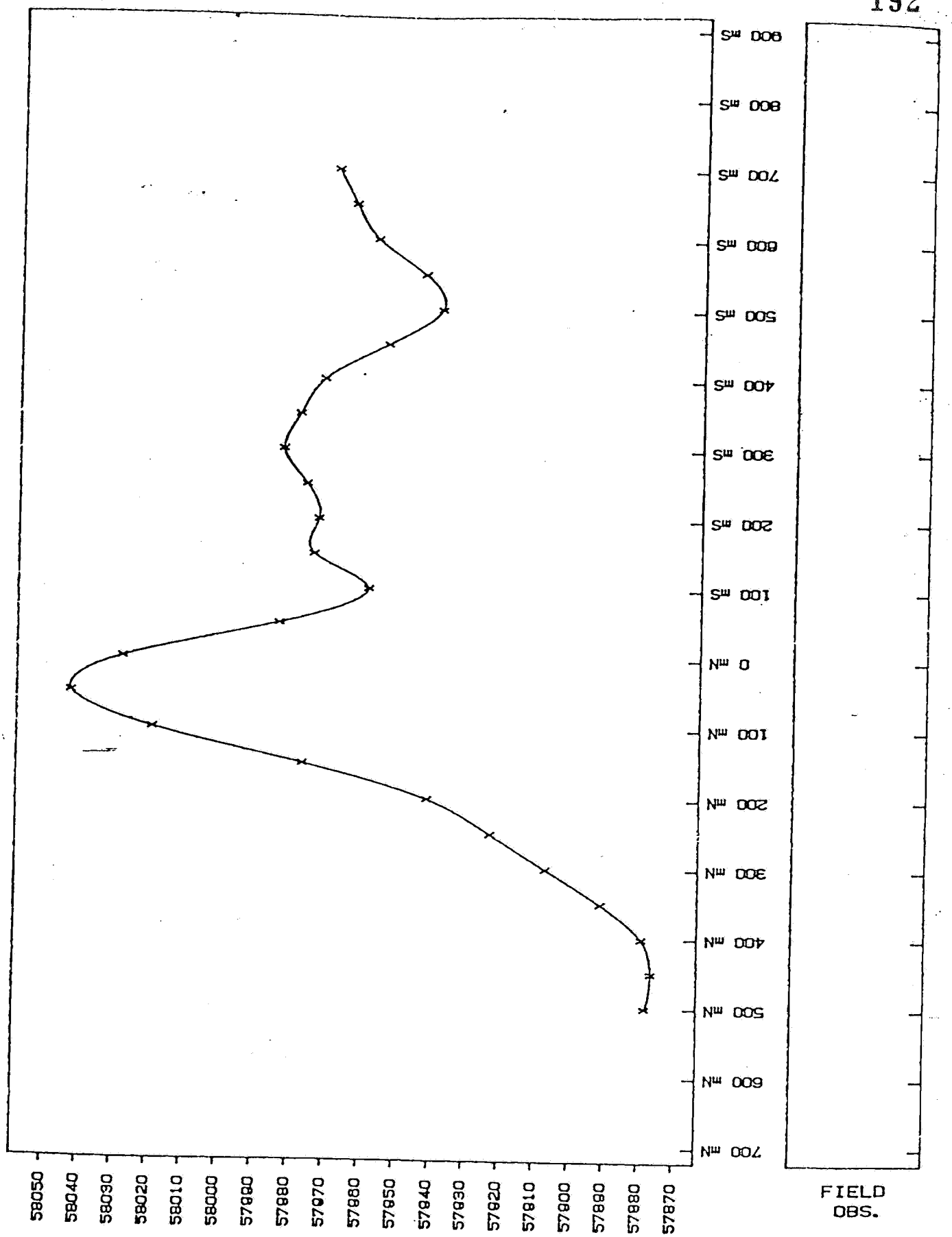
ANOMALIES

5436-4/W08
5436-4/W17
5436-4/W19
5436-4/E14



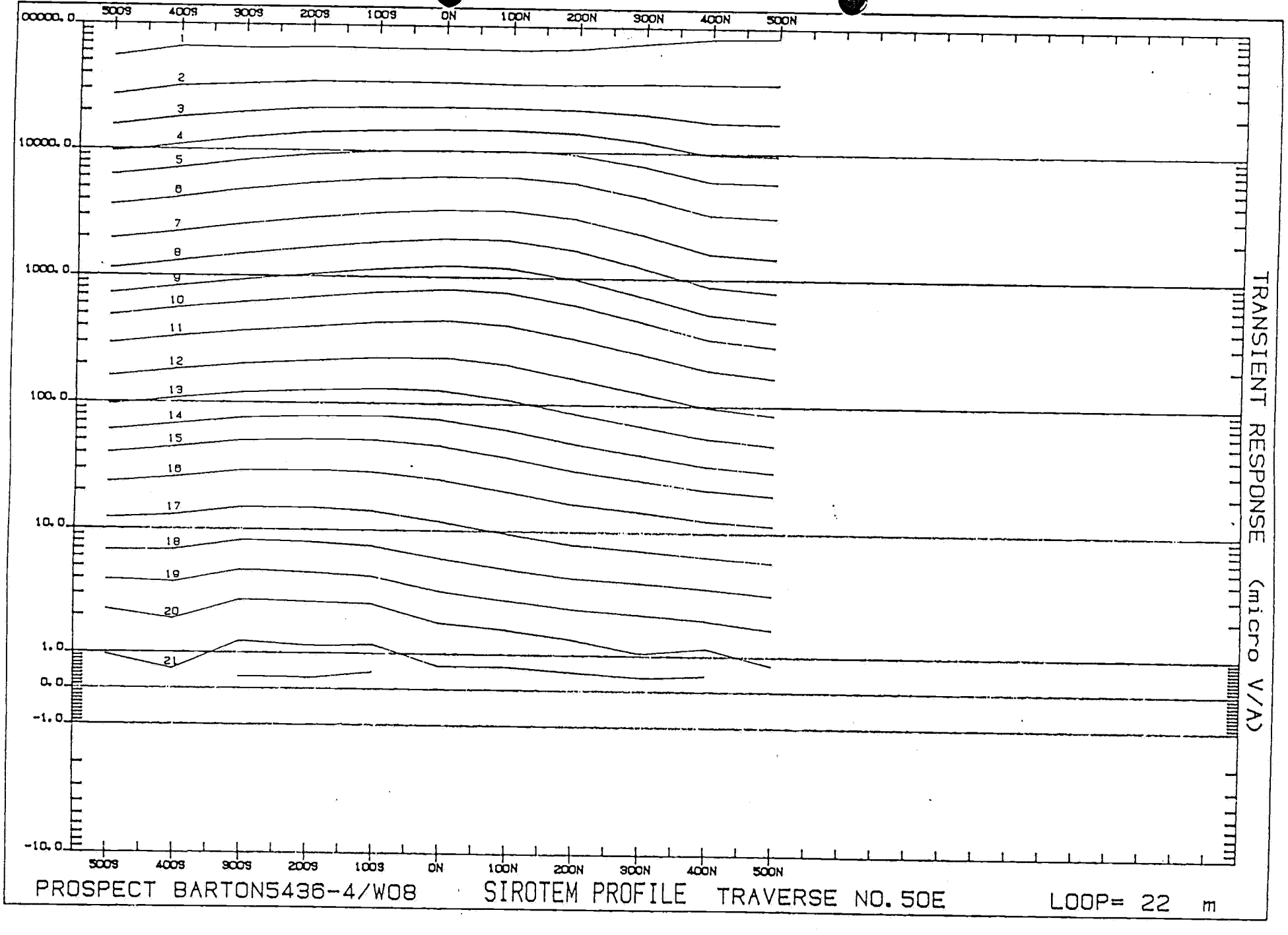
SURVEY DATE : 05/10/82
LINE & FID. NO. : 1520.0N 7481
LINE DIRECTION : 0 DEG.
HORIZ. SCALE : 1: 7500
VERTICAL SCALE : 15 nT/CM
PEAK MAG. READ. : 58052.9 nT

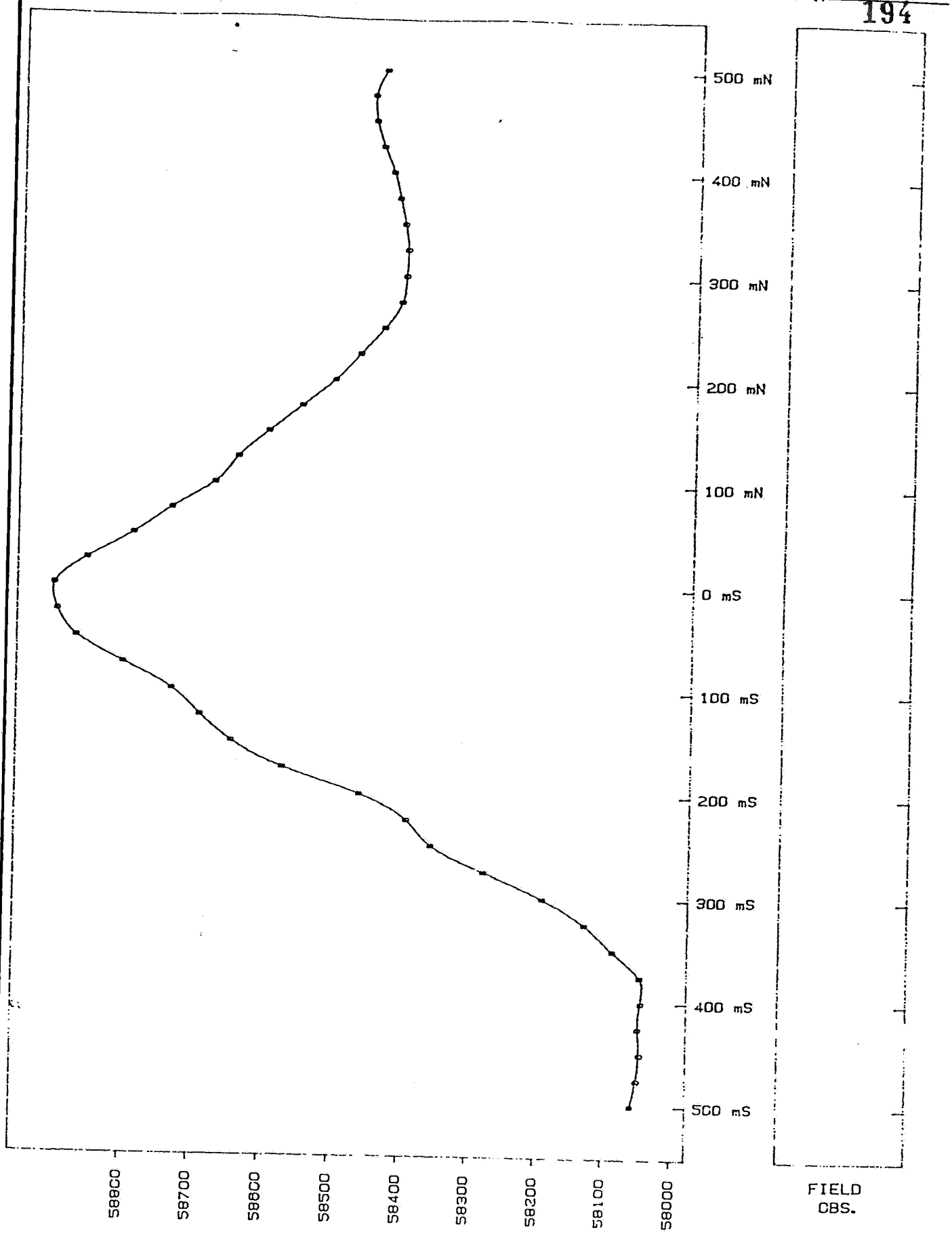
MAGNETIC PROFILES (nT)
BARTON 5436-4
ANOM. W-08
LINE ON



SURVEY DATE : 05/10/82
LINE & FID. NO. : 1520.0N 7481
LINE DIRECTION : 0 DEG.
HORIZ. SCALE : 1: 7500
VERTICAL SCALE : 15 nT/CM
PEAK MAG. READ. : 58043.1 nT

MAGNETIC PROFILES (nT)
BARTON 5436-4
ANOM. W-08
LINE 0W


500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
500N
00000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
3
4
5
6
7
8
9
10
11
12
13
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16
17
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19
20
21
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON5436-4/W08 SIROTEM PROFILE TRAVERSE NO. 50E LOOP= 22 m

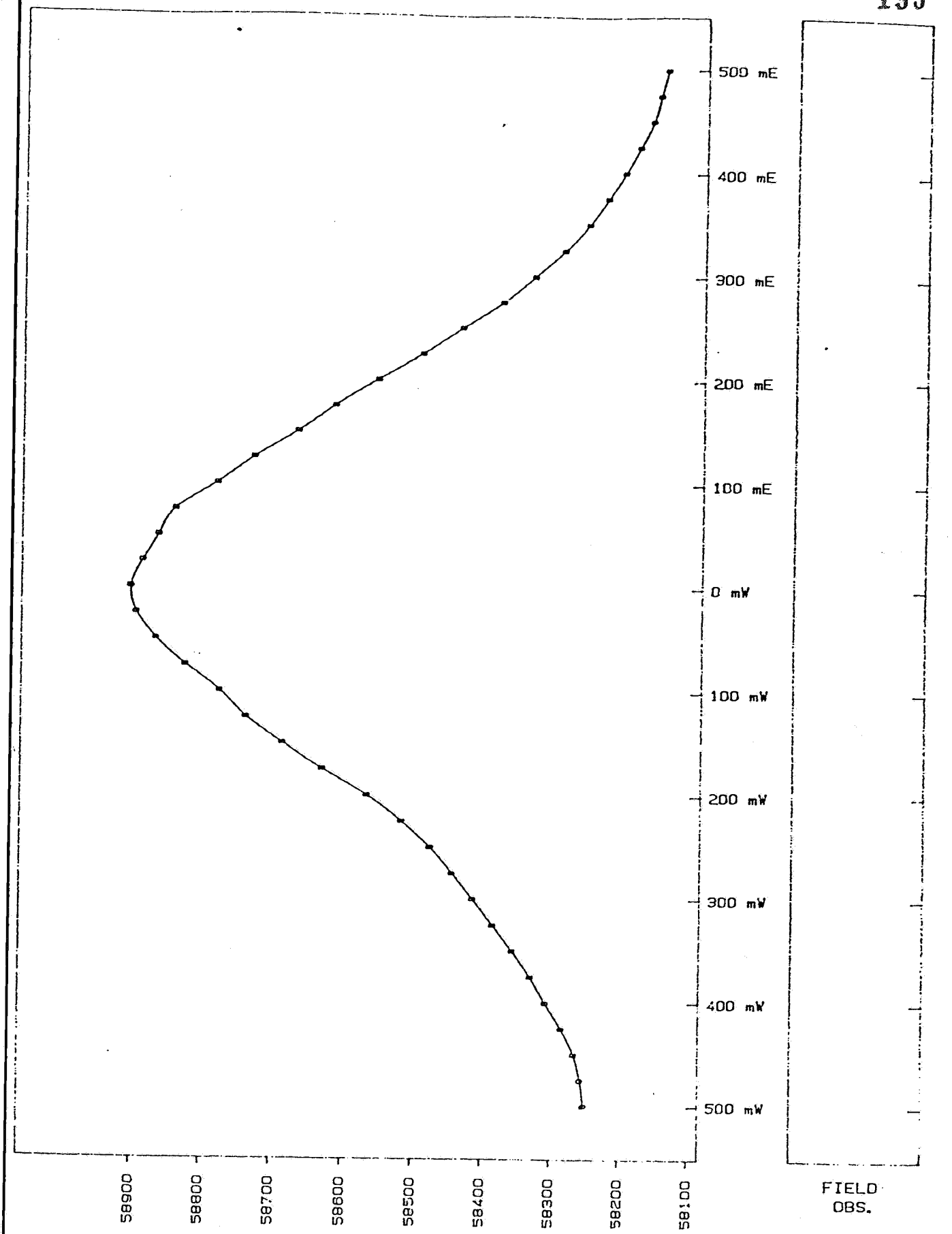


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 75 nT/CM
LINE AZIMUTH : N0E
PEAK MAG. READ. : 58906.9 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 203N561E
LINE & FID. NO. : 1514.0N/3479
SURVEY DATE : 20/09/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON5436-4W17
ANOM. 64W17
LINE 0E

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

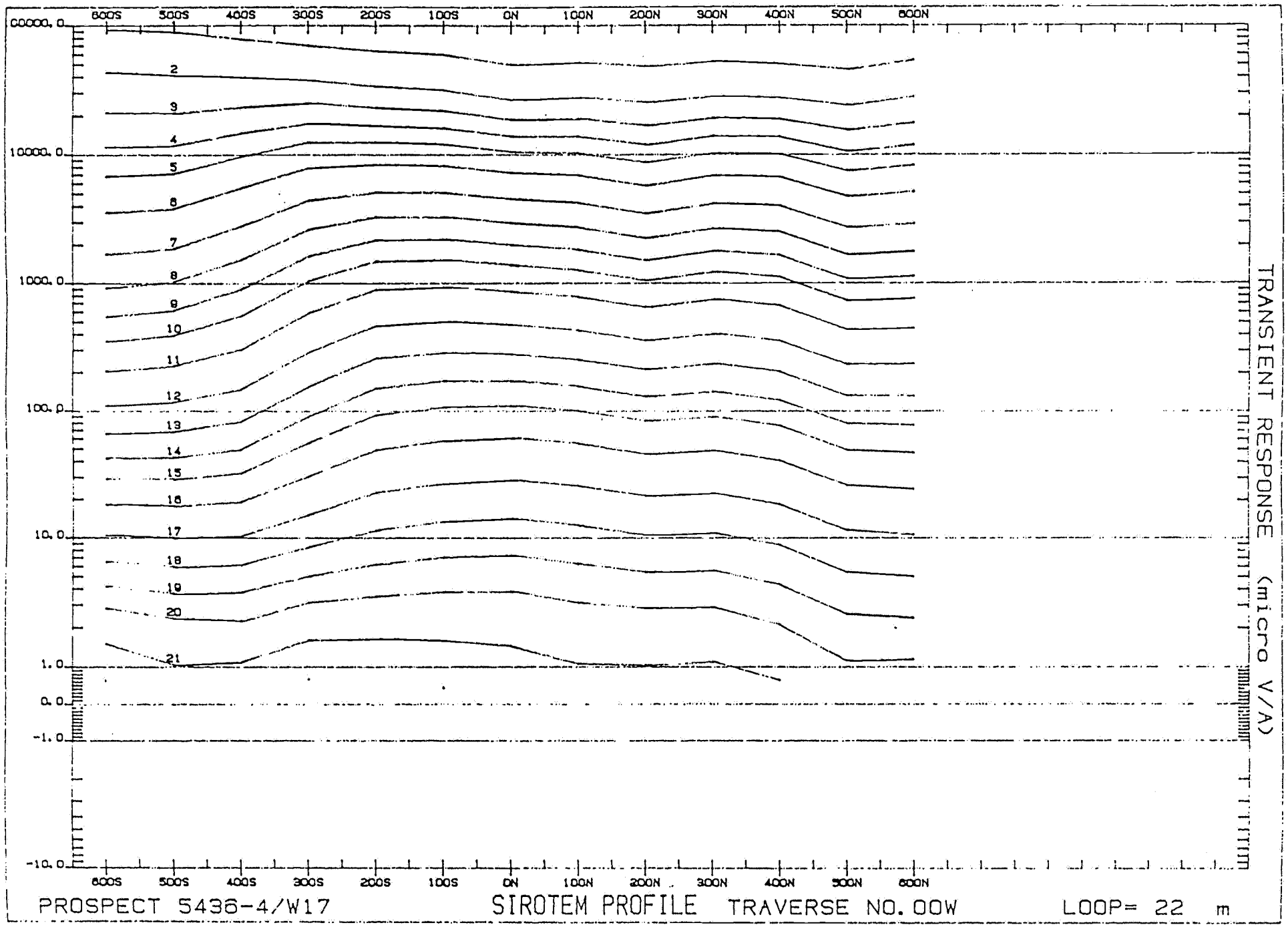


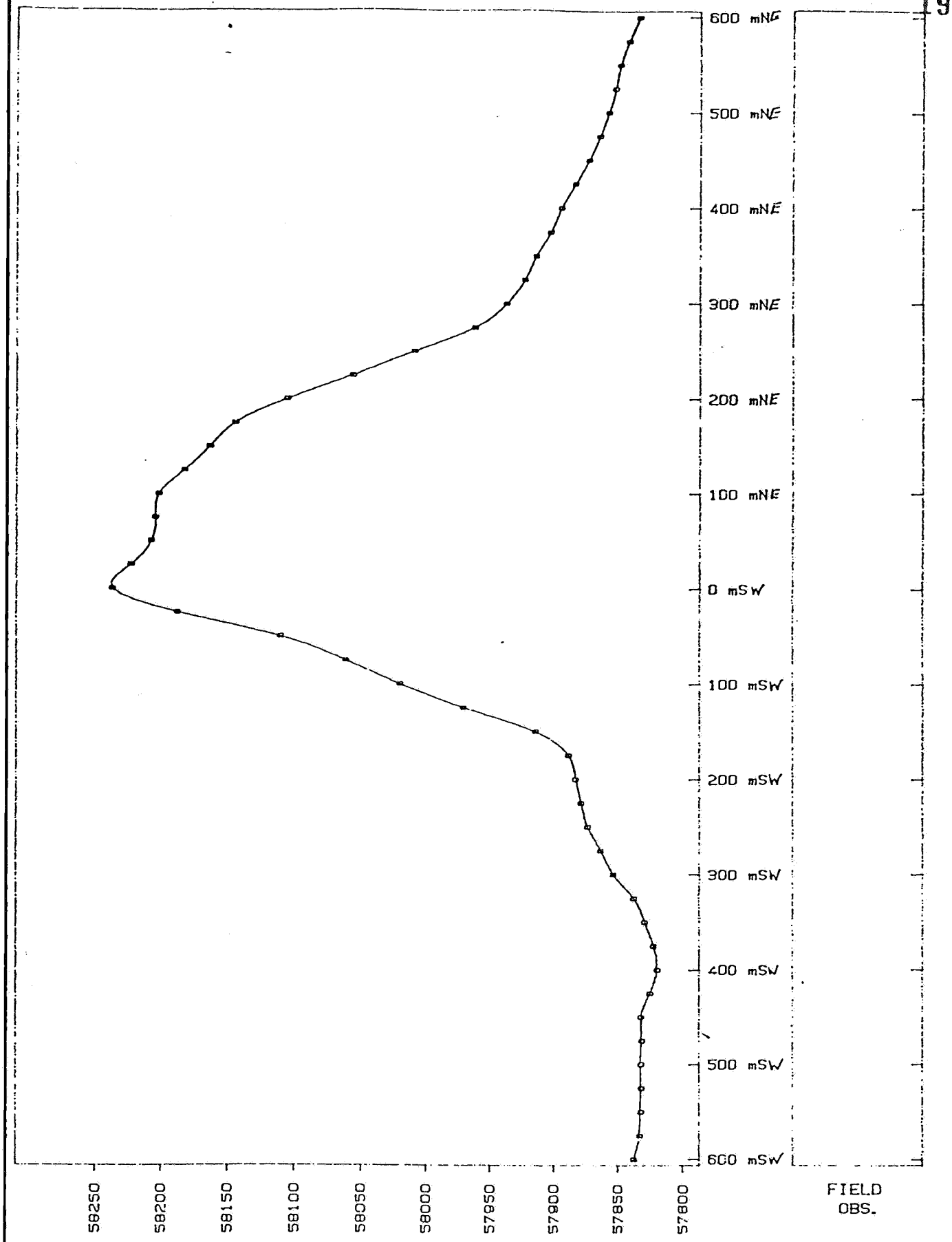
HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 75 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58906.9 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 203N561E
LINE & FID. NO. : 1514.0N/3479
SURVEY DATE : 20/09/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON5436-4W17
ANOM. 64W17
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


600S
500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
500N
600N
60000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
2
3
4
5
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7
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20
21
TRANSIENT RESPONSE (micro V/A)
PROSPECT 5436-4/W17
SIROTEM PROFILE TRAVERSE NO. 00W
LOOP= 22 m

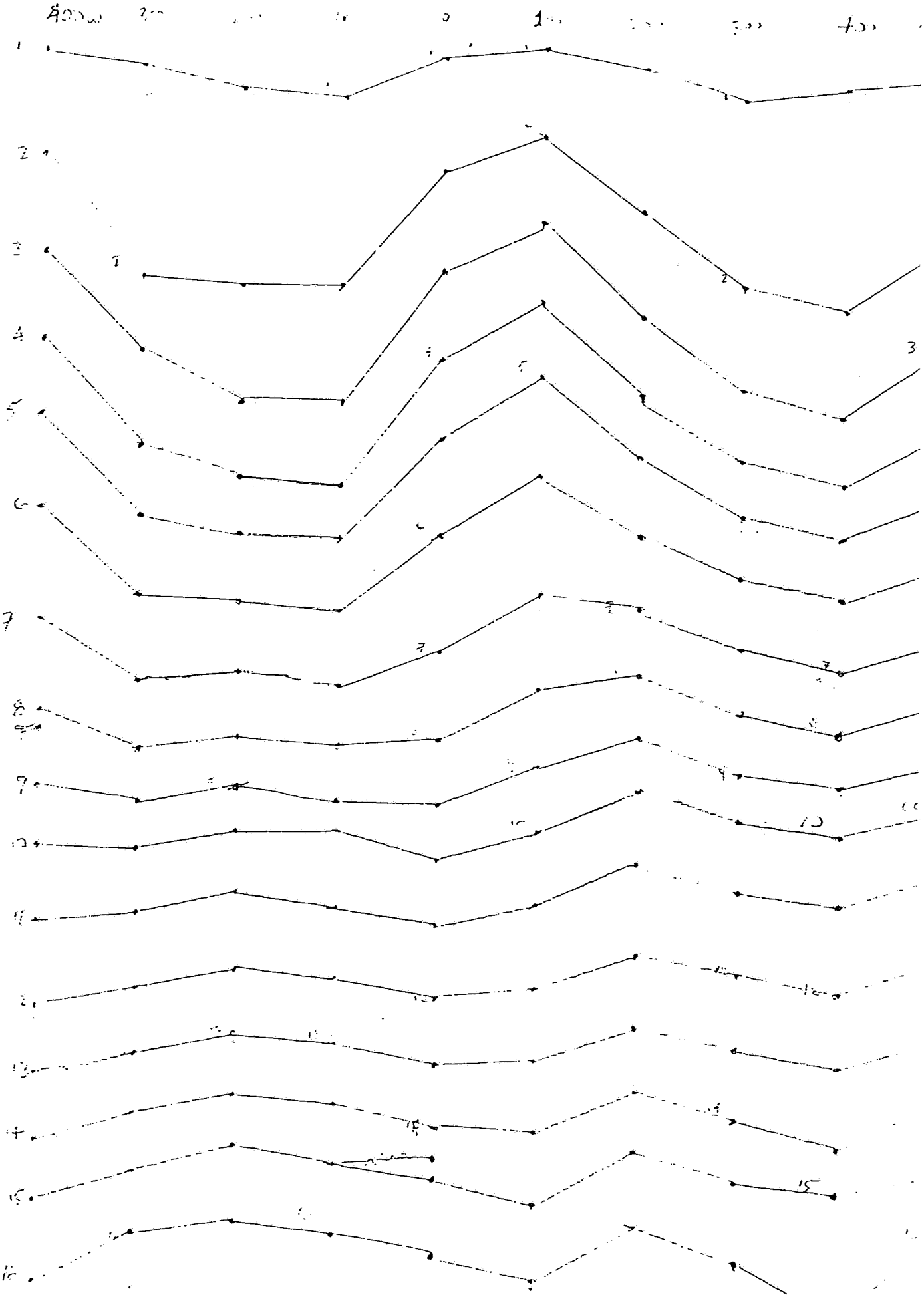


HORIZ. SCALE : 1: 5500
VERTICAL SCALE : 40 nT/CM
LINE AZIMUTH : N45E
PEAK MAG. READ. : 58238.5 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 213N562E
LINE & FID. NO. : 1521.05/166
SURVEY DATE : 20/09/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON54364W19
ANOM. 64W19
LINE OE

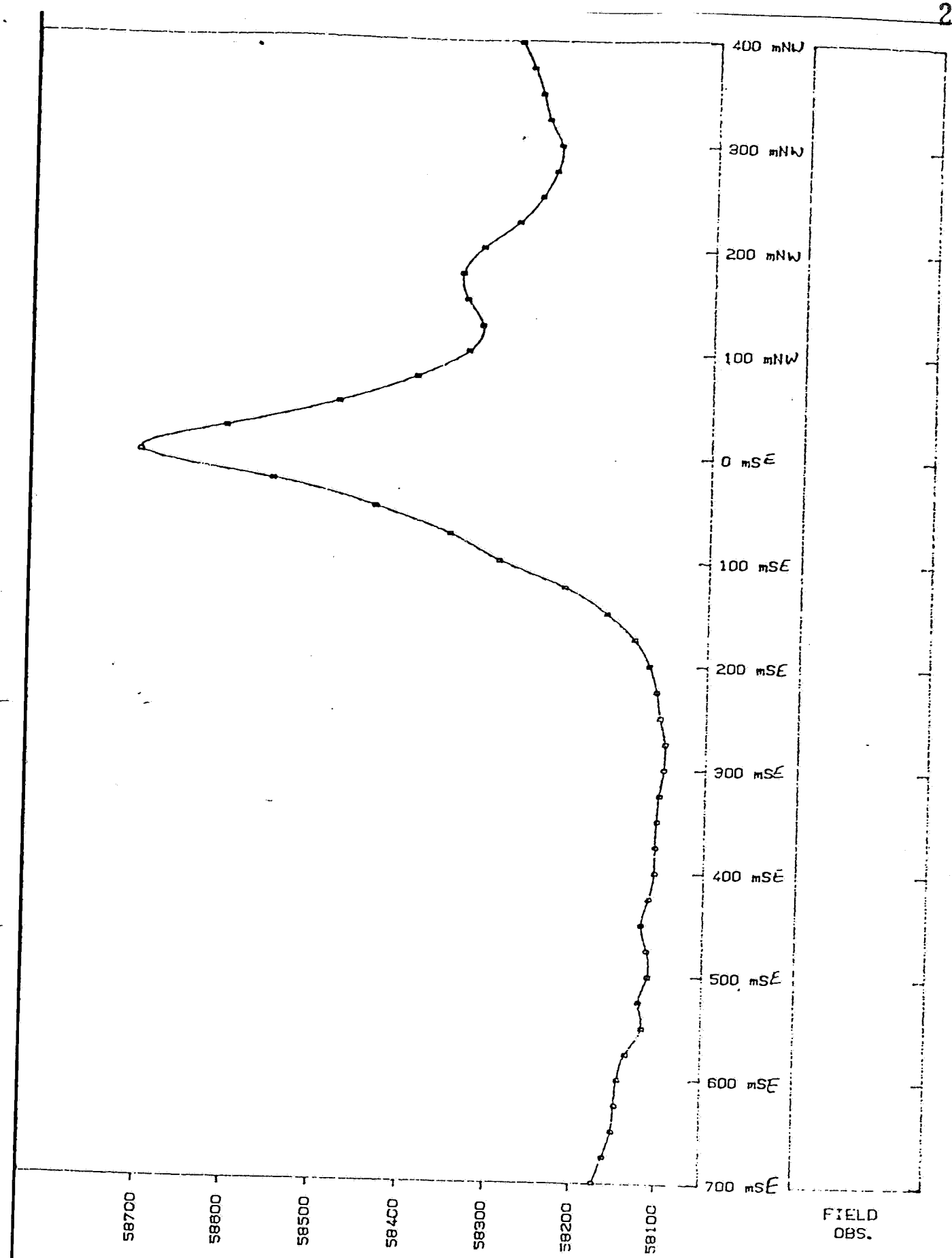
Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



EL 1151

ANOMALIES

5536-1/W10.
5536-1/W11.
5536-2/C
5536-2/D
5536-2/W15 (A)
5536-2/W16 (B)
5536-2/E01.
5536-3/W11.
5536-4/W17.
5536-4/E06.
5536-4/E14.
5536-4/E15.

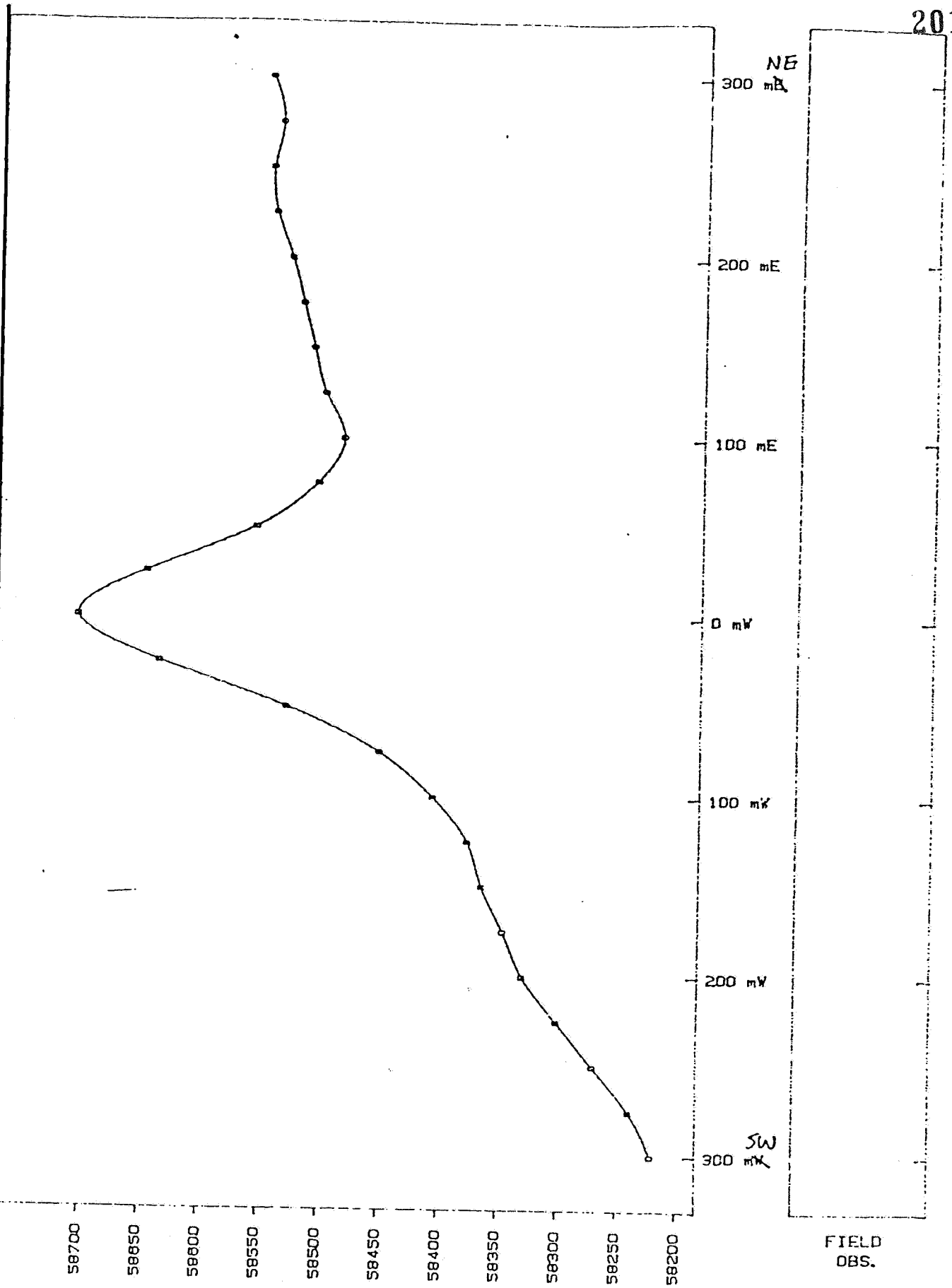


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 60 nT/CM
LINE AZIMUTH : N135E
PEAK MAG. READ. : 58709.6 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 192N641E
LINE & FID. NO. : 1273.0S/570
SURVEY DATE : 18/10/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/W10
ANOM. 61W10
LINE 0~~E~~NE

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL

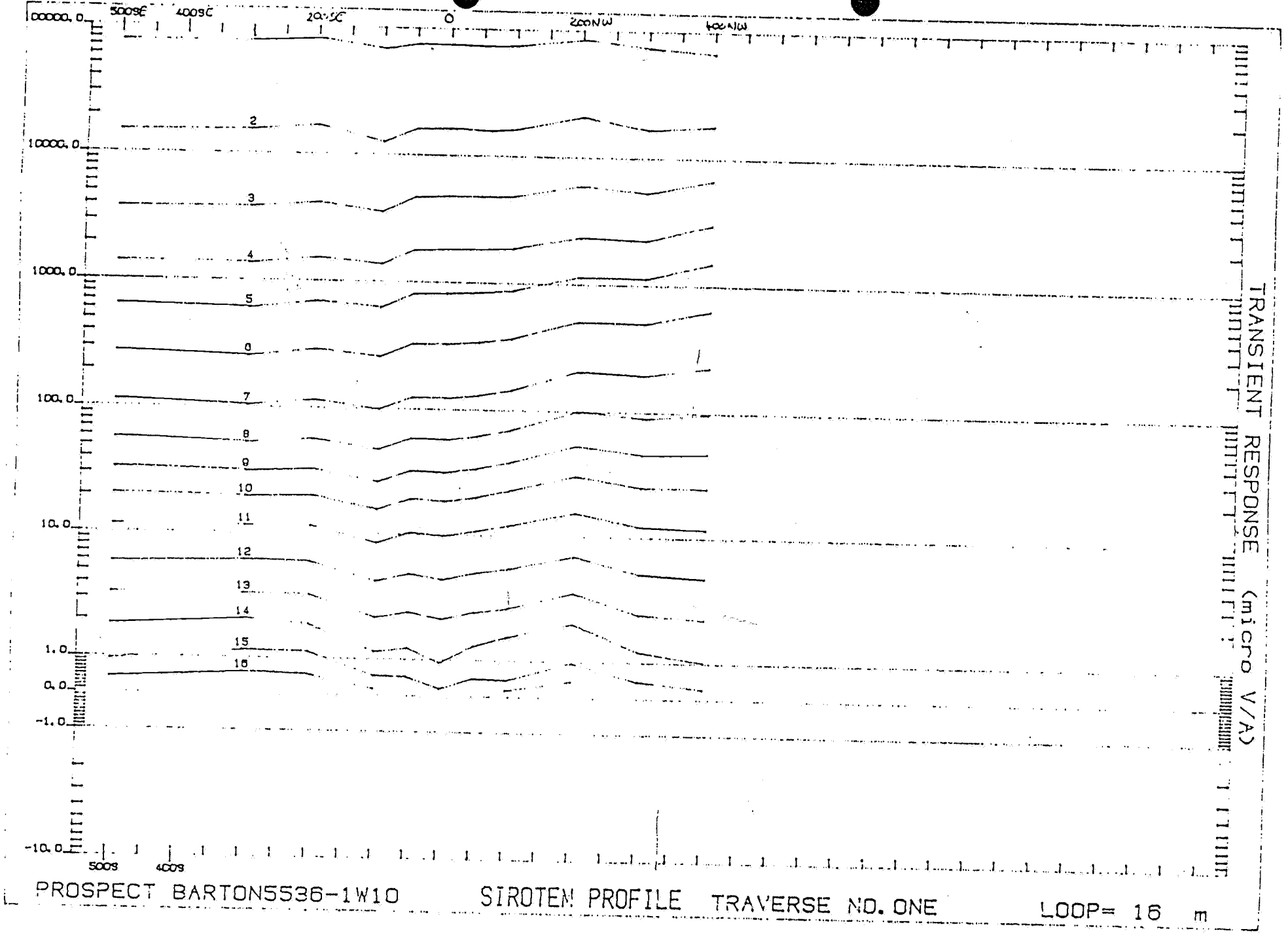


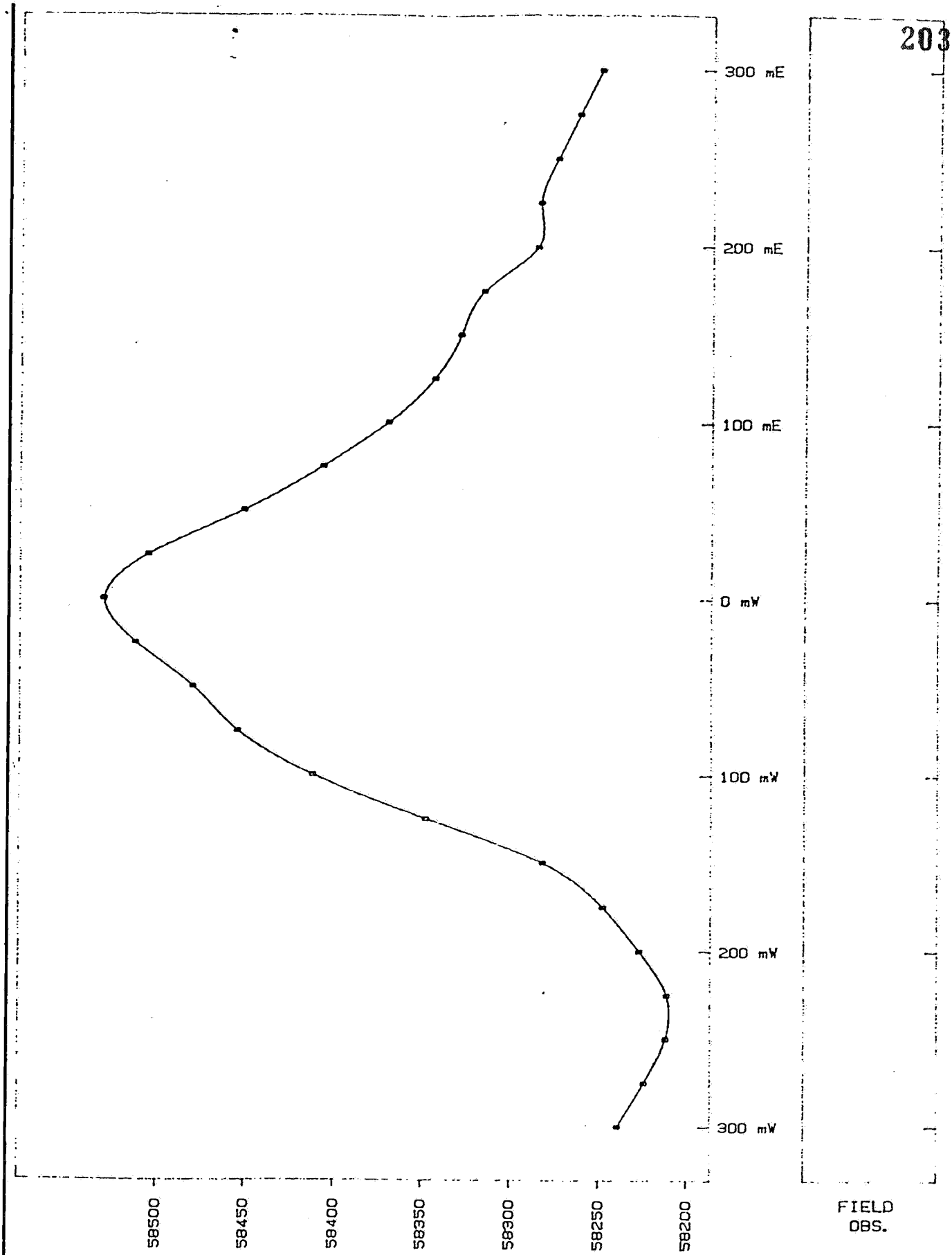
HORIZ. SCALE	:	1: 3000
VERTICAL SCALE	:	45 nT/CM
LINE AZIMUTH	:	N45E
PEAK MAG. READ.	:	58709.6 nT
MAP SHEET	:	SH53-9
AMG OF ON/OE	:	192N641E
LINE & FID. NO.	:	1273.0S/570
SURVEY DATE	:	18/10/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/W10
ANOM. 61W10
LINE 0NW

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL


500SE
400SE
200SE
0
200NW
400NW
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
500S
400S
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON5536-1W10
SIROTEM PROFILE TRAVERSE NO. ONE
LOOP= 16
E

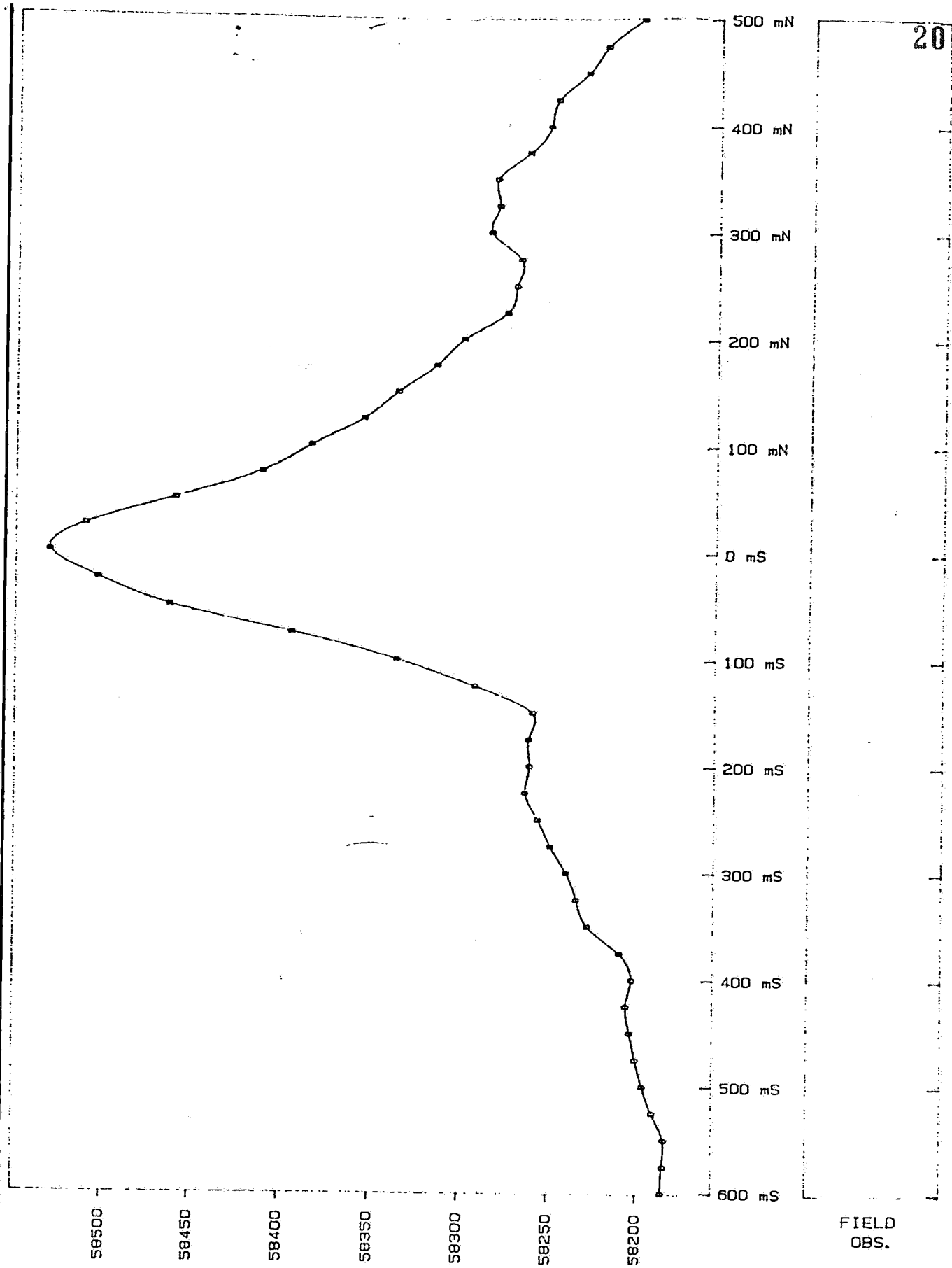


HORIZ. SCALE	: 1: 3000
VERTICAL SCALE	: 30 nT/CM
LINE AZIMUTH	: N90E
PEAK MAG. READ.	: 58532.8 nT
MAP SHEET	: SH53-9
AMG OF ON/OE	: 191N842E
LINE & FID. NO.	: 1289.0S/3517
SURVEY DATE	: 28/11/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/W11
ANOM. 61W11
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL



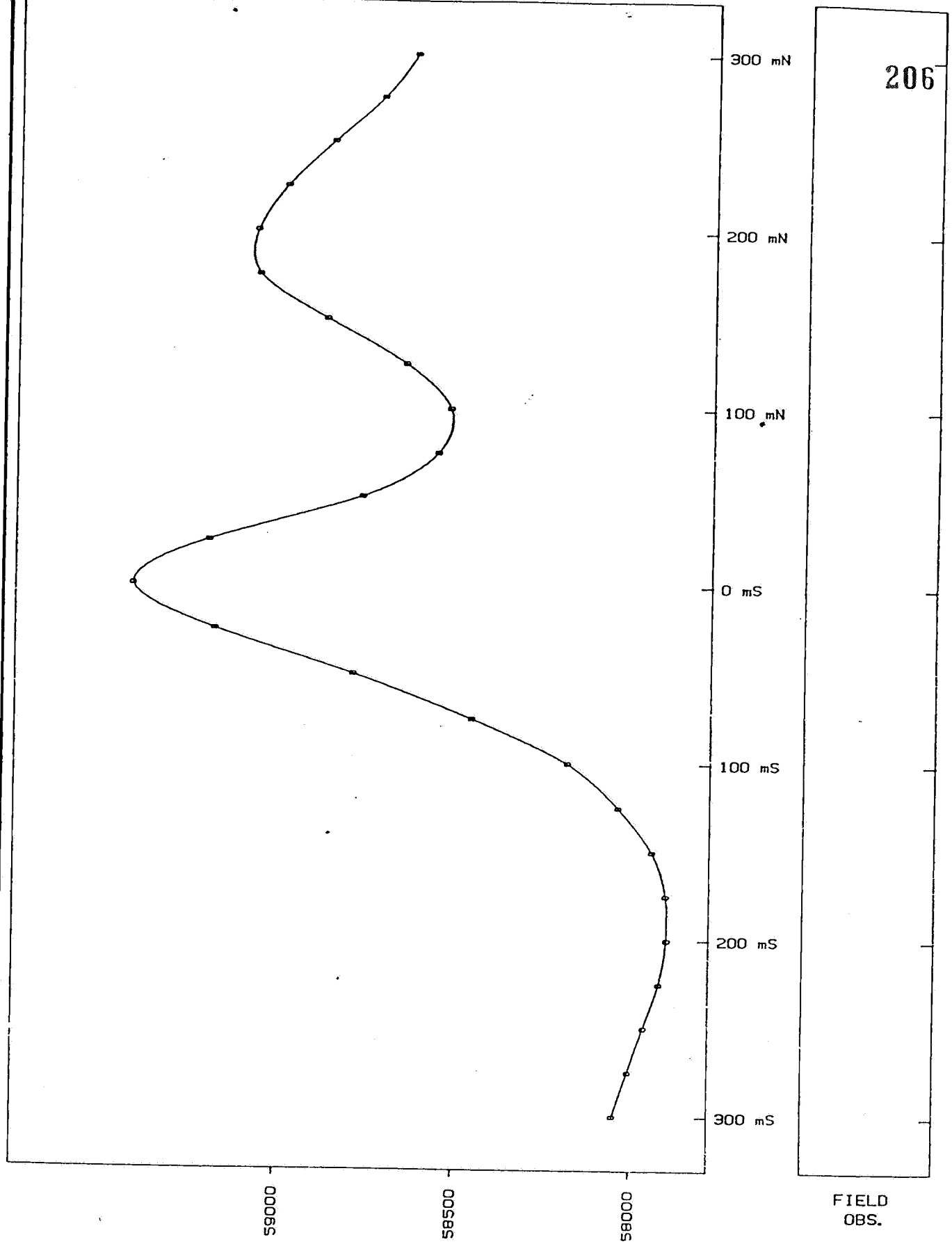
HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 30 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58532.8 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 191N642E
LINE & FID. NO.: 1269.0S/3517
SURVEY DATE : 26/11/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/W11
ANOM. 61W11
LINE OW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

PROSPECT BARTON5536-1W11 SIROTEM PROFILE TRAVERSE NO. OW LOOP= 16 m

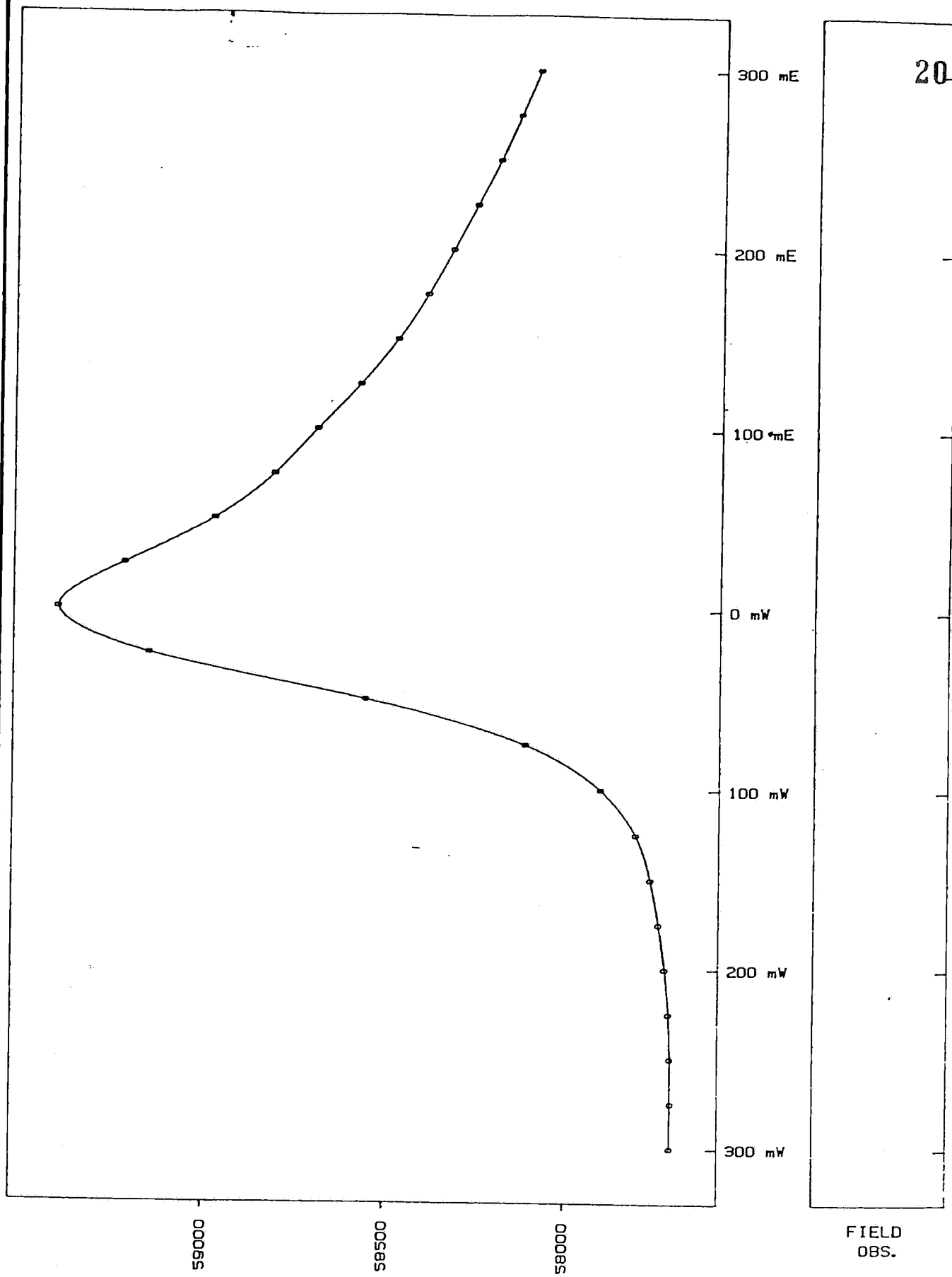


HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 150 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 59412 nT
MAP SHEET : H53-9
AMG OF ON/OE : -
LINE & FID. NO. : -
SURVEY DATE : 18/06/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2
ANOM. AN'C'
LINE OW

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL



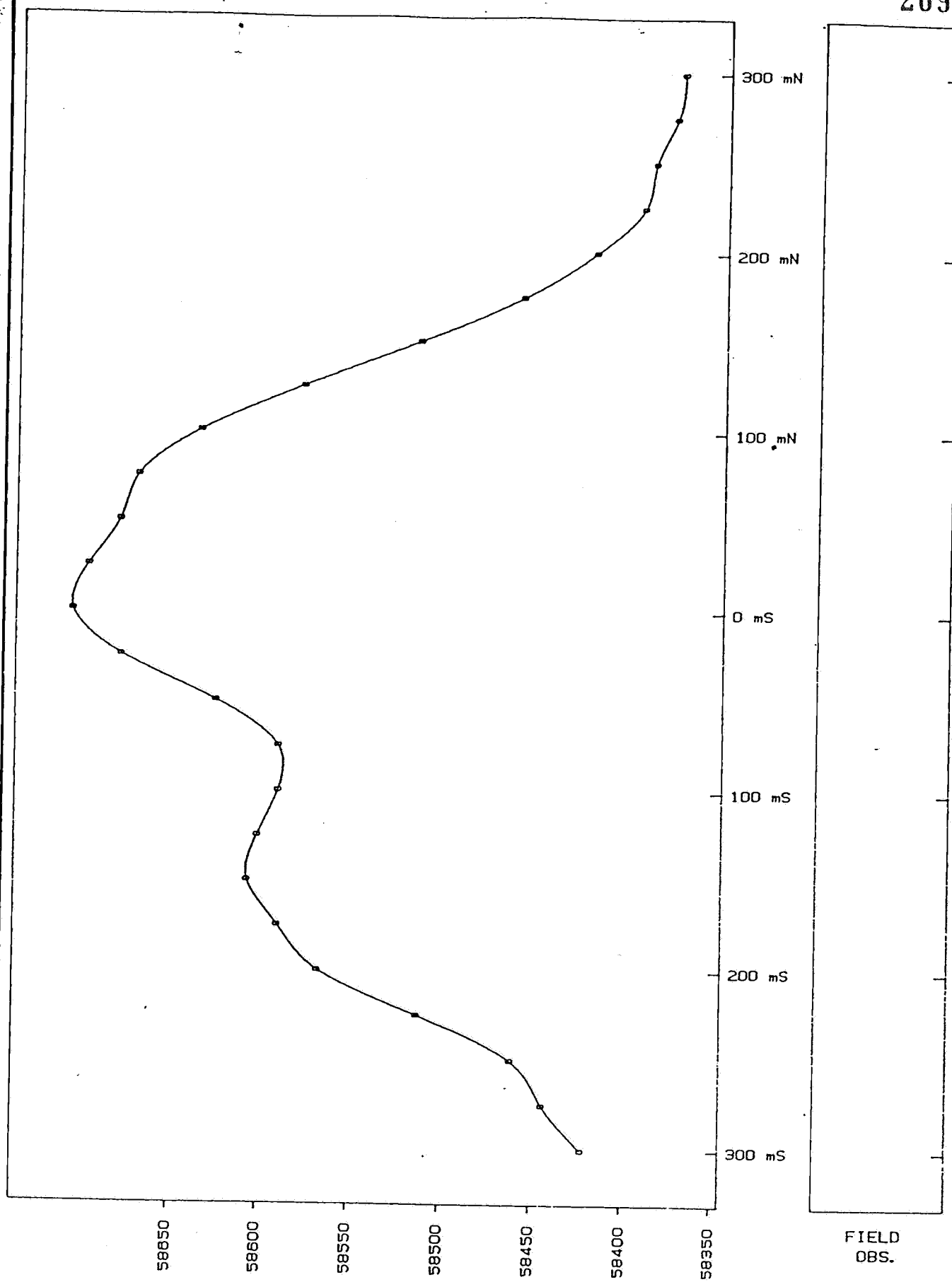
HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 150 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 59412 nT
MAP SHEET : H53-9
AMG OF ON/OE : -
LINE & FID. NO. : -
SURVEY DATE : 18/06/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2
ANOM. AN'C'
LINE ON

Compiled
Drawn
Date
Scale
Revised
SEL

PROSPECT BARTON-TARCOOLA 'C' SIROTEM PROFILE TRAVERSE NO. ON LOOP= 200 m

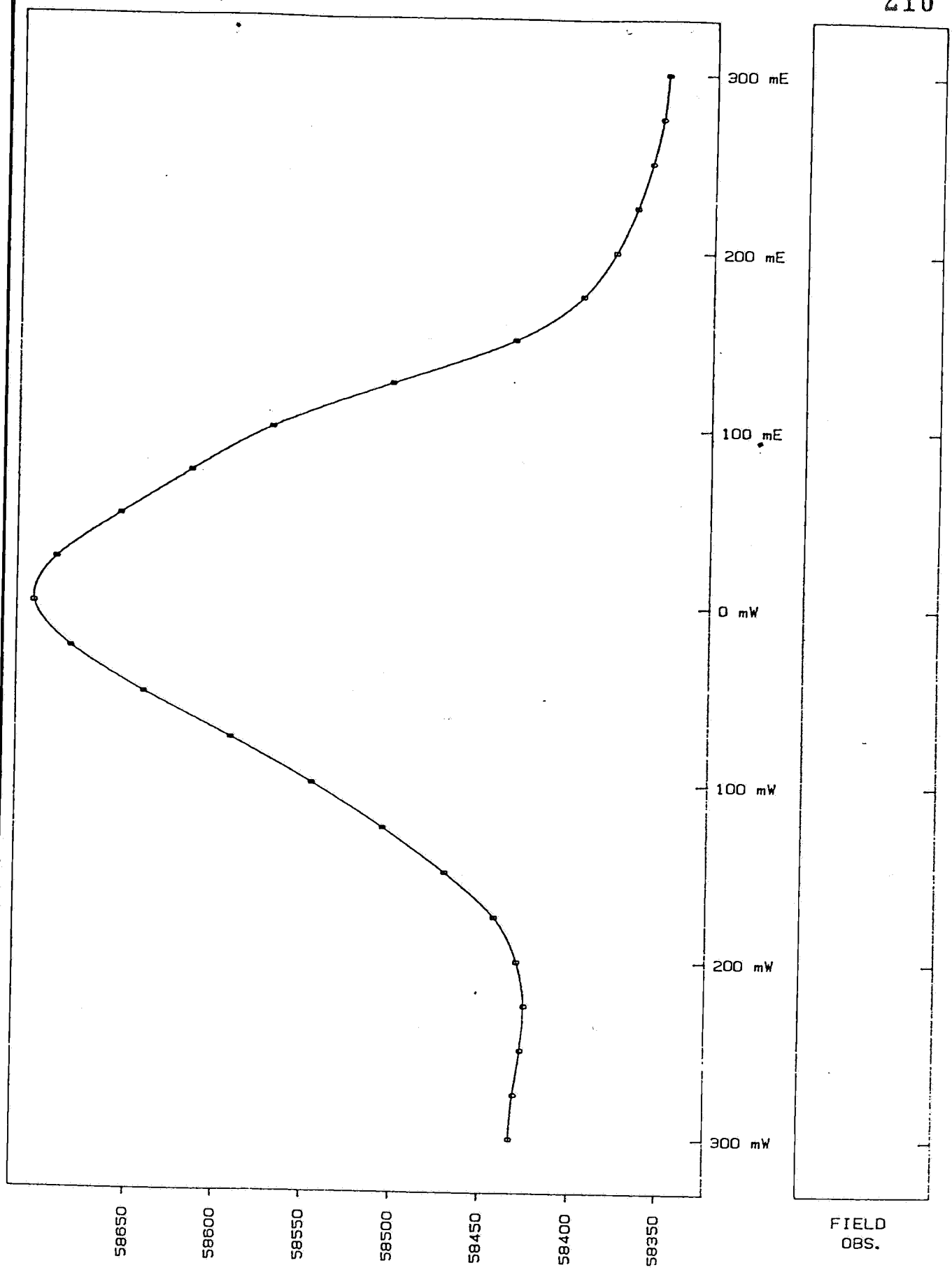


HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 30 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58708.8 nT
MAP SHEET : HS3-9
AMG OF ON/OE : -
LINE & FID. NO. : -
SURVEY DATE : 20/06/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2
ANOM. AN'D'
LINE OW.

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



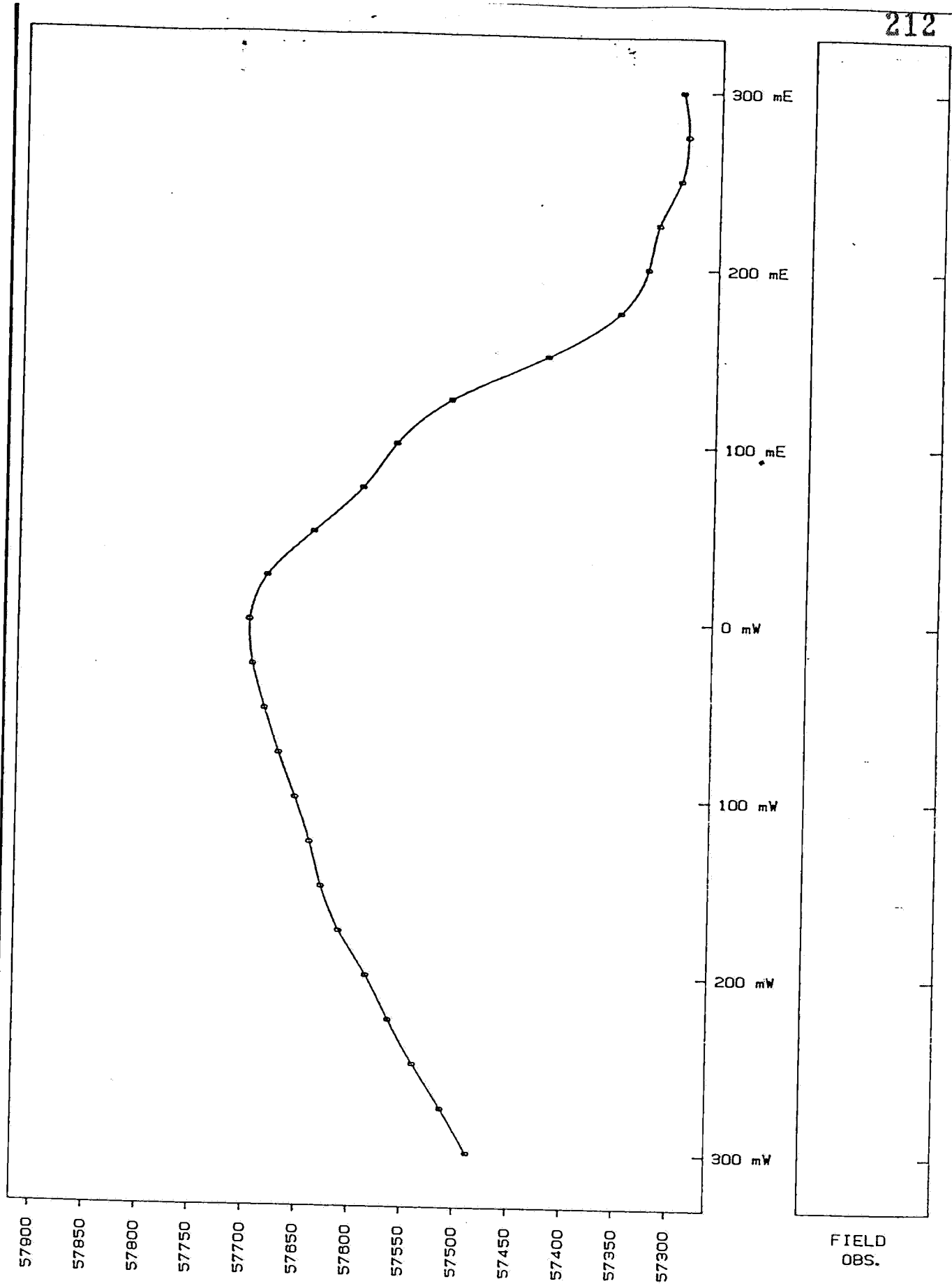
HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 30 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58708.8 nT
MAP SHEET : H53-9
AMG OF ON/OE : -
LINE & FID. NO. : -
SURVEY DATE : 20/06/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2
ANOM. AN'D'
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

500S
300S
100S
100N
300N
500N
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
2
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18
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-2 D
SIROTEM PROFILE
TRAVERSE NO. OW
LOOP= 200 m

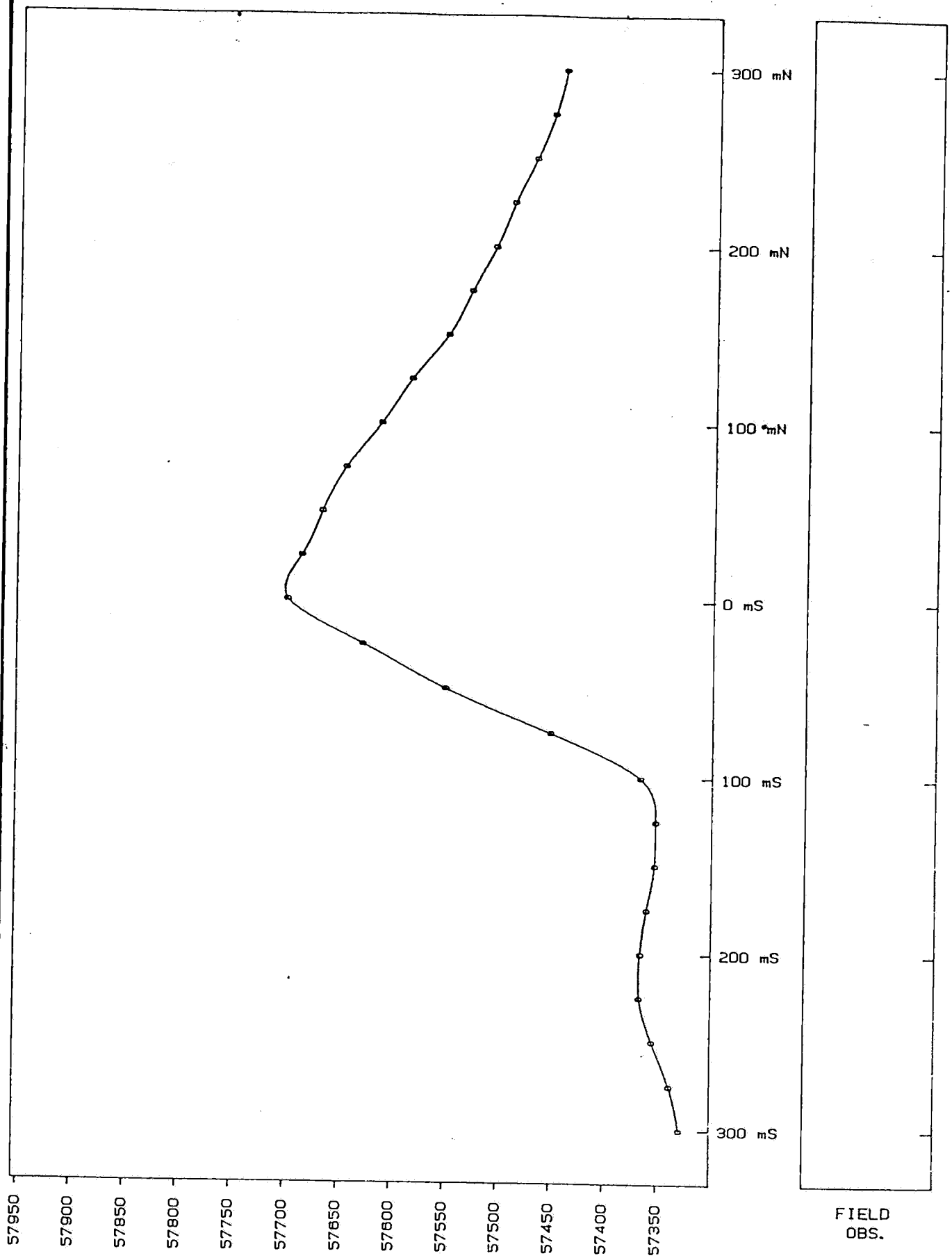


HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 50 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 57701.1 nT
MAP SHEET : H53-9
AMG OF ON/OE : -
LINE & FID. NO. : -
SURVEY DATE : 13/06/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2
ANOM. AN'A'
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



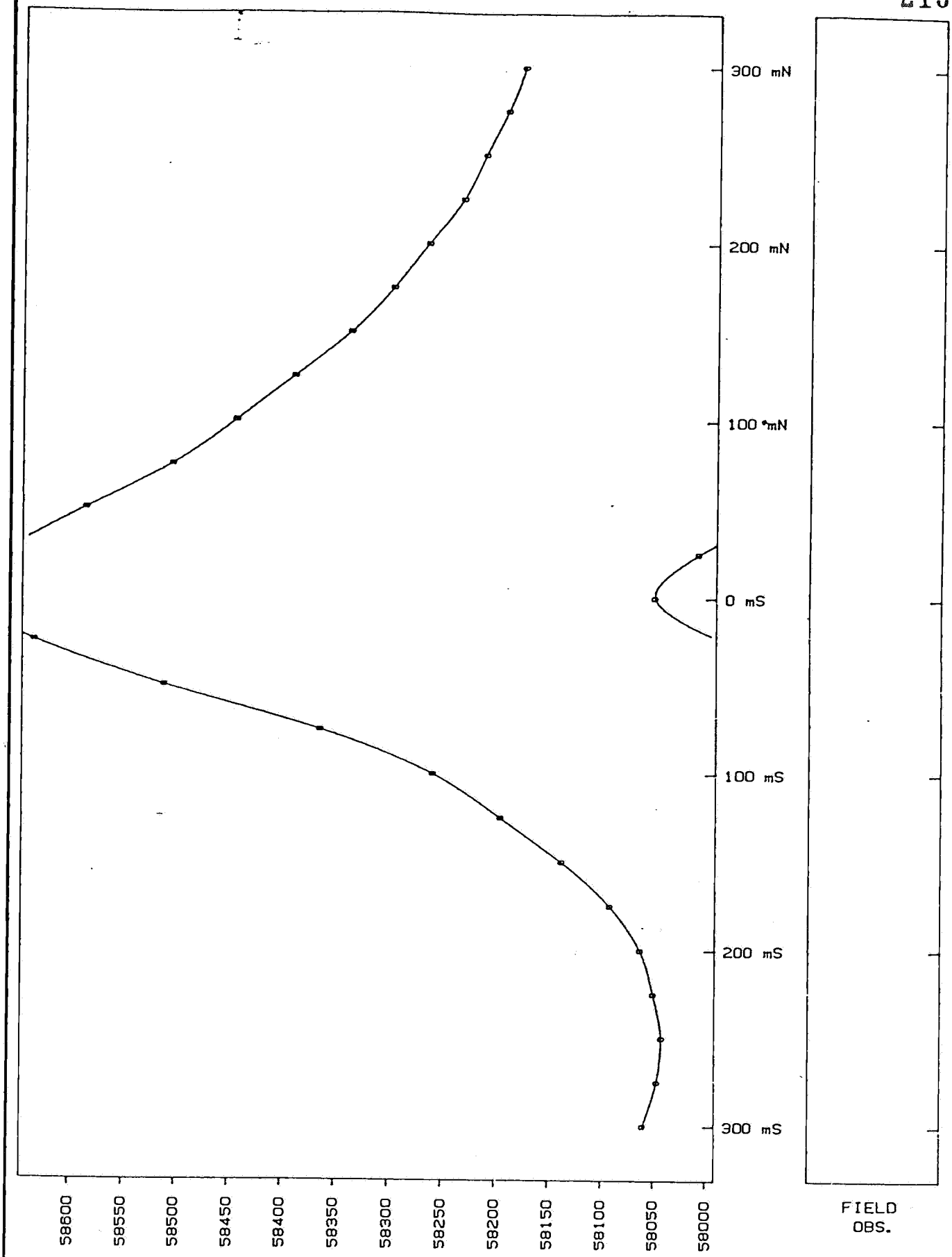
HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 50 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 57701.1 nT
MAP SHEET : H53-9
AMG OF ON/OE : -
LINE & FID. NO. : -
SURVEY DATE : 13/06/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2
ANOM. AN'A'
LINE OW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

PROSPECT BARTON-TARCOOLA 'A' SIROTEM PROFILE TRAVERSE NO. OW LOOP= 200 m

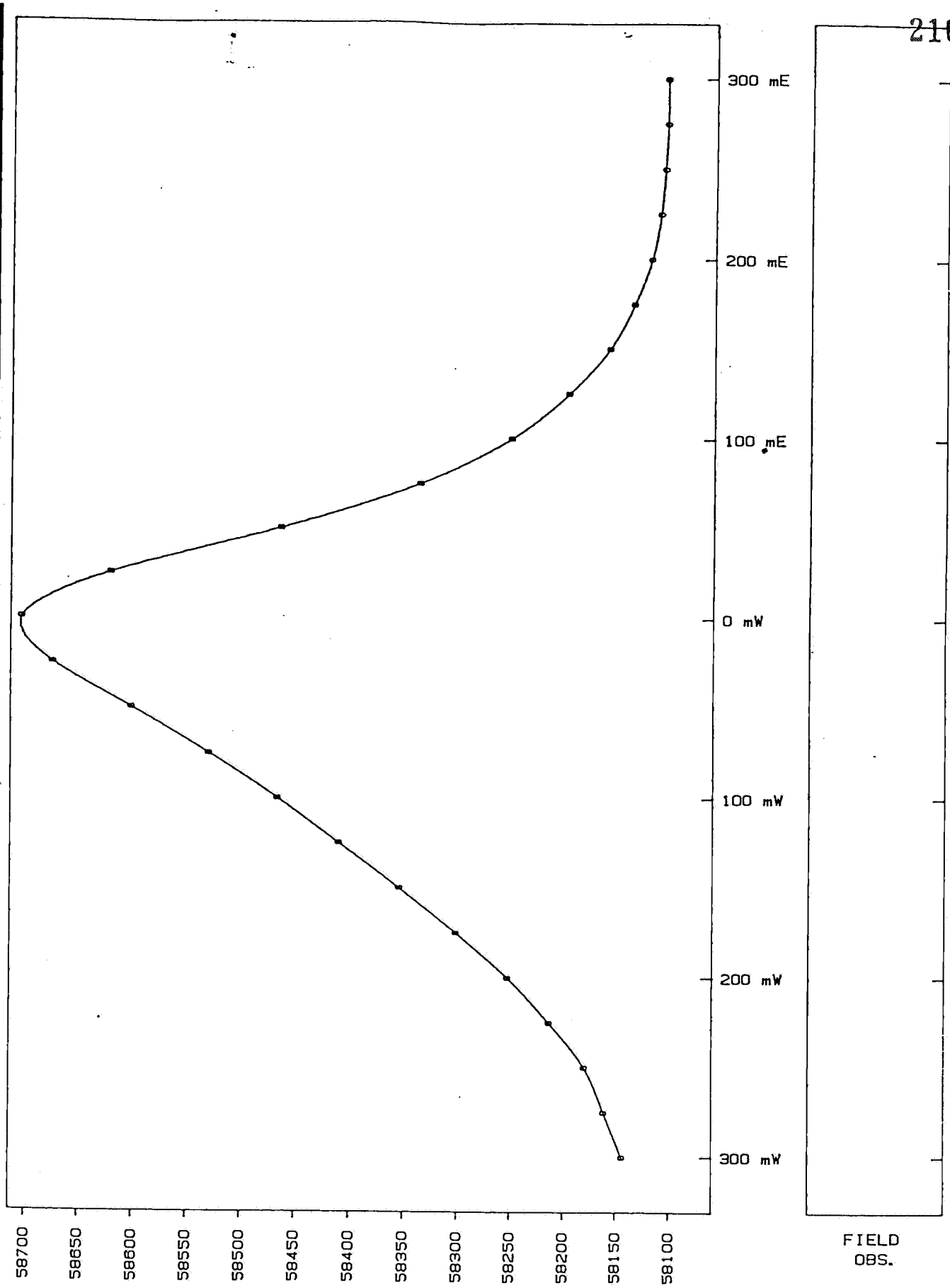


HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 50 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58706.4 nT
MAP SHEET : H53-9
AMG OF ON/OE : -
LINE & FID. NO. : -
SURVEY DATE : 16/06/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2
ANOM. AN'B'
LINE OW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

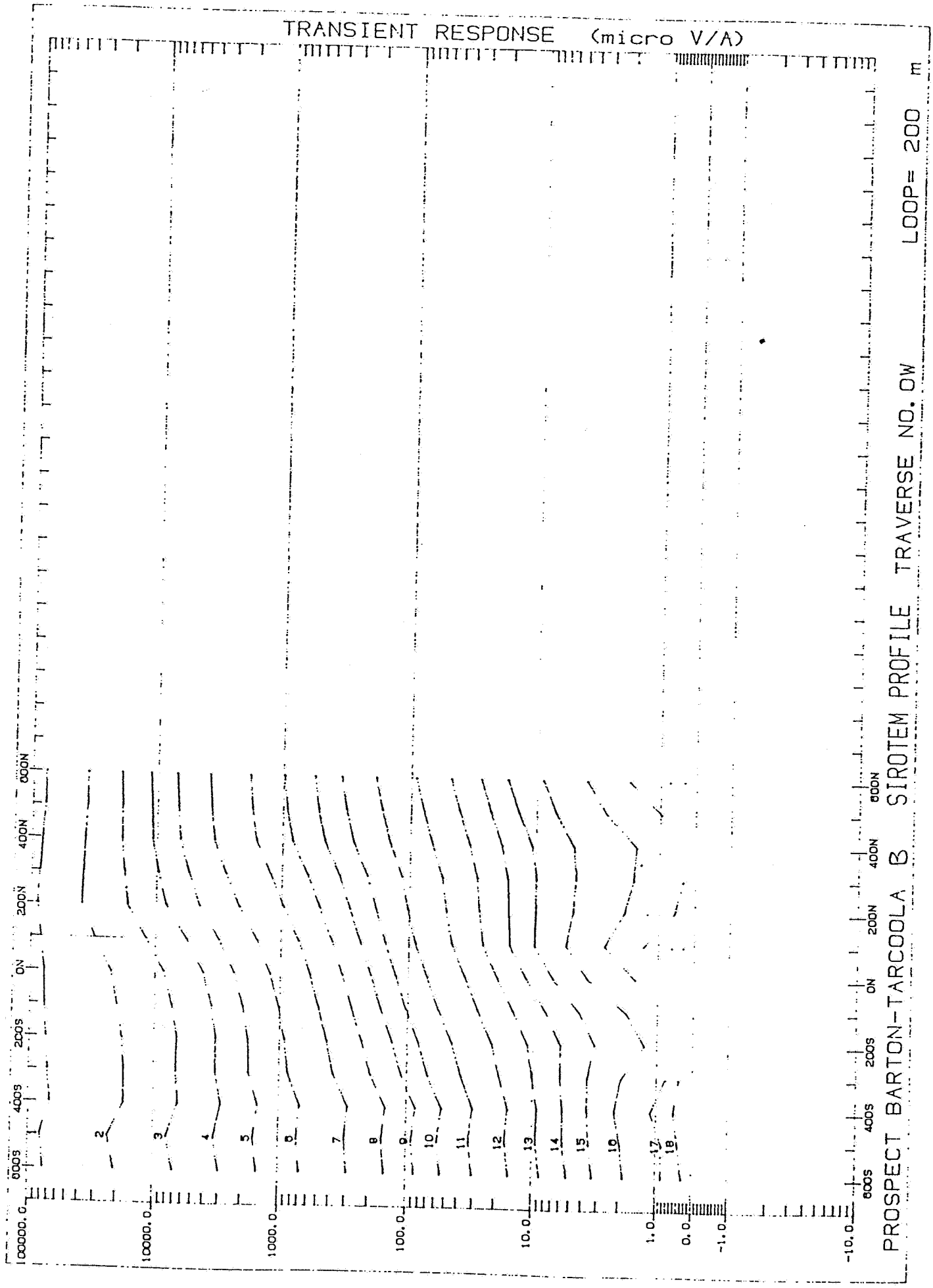


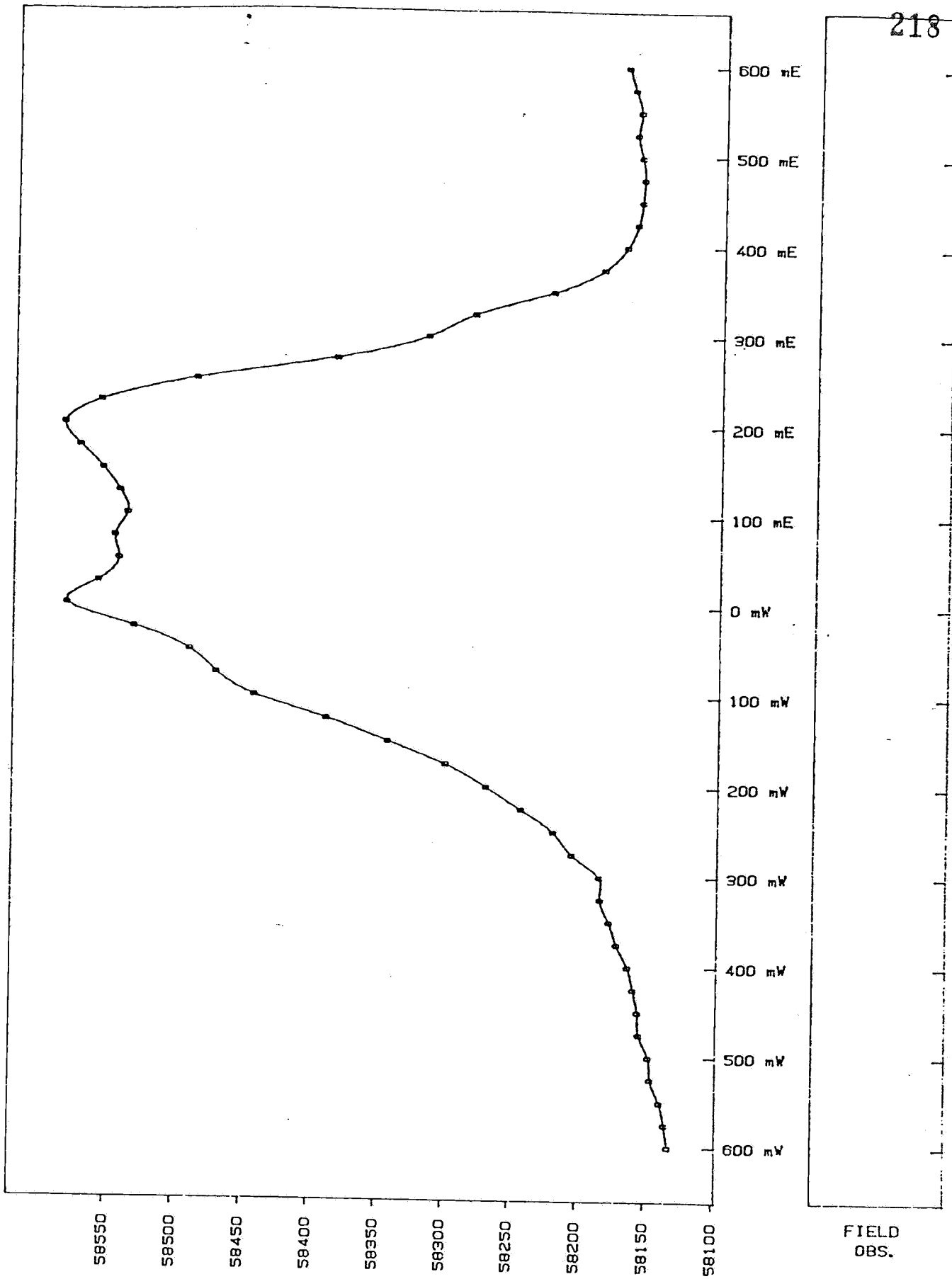
HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 50 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58706.4 nT
MAP SHEET : H53-9
AMG OF ON/OE : -
LINE & FID. NO. : -
SURVEY DATE : 16/06/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2
ANOM. AN'B'
LINE ON

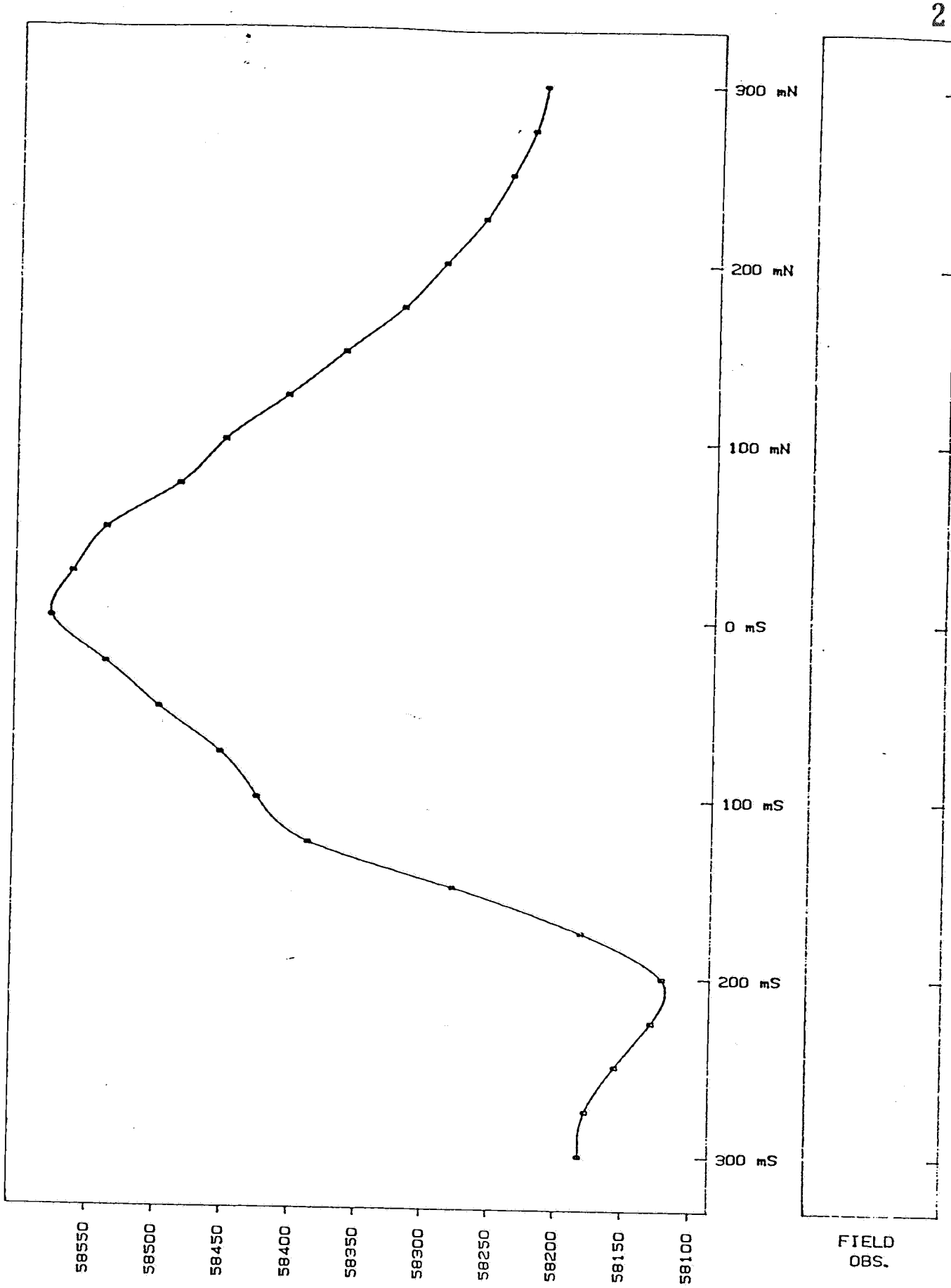
Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON-TARCOOLA B SIROTEM PROFILE TRAVERSE NO. OW
LOOP= 200 m
800S 400S 200S 0N 200N 400N 600N
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 40 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58584.9 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 190N649E
LINE & FID. NO. : 1242.0N/2230
SURVEY DATE : 18/10/86

MAGNETIC PROFILE (nT)
BARTON 5536-2/E01
ANOM. 362E1
LINE ON

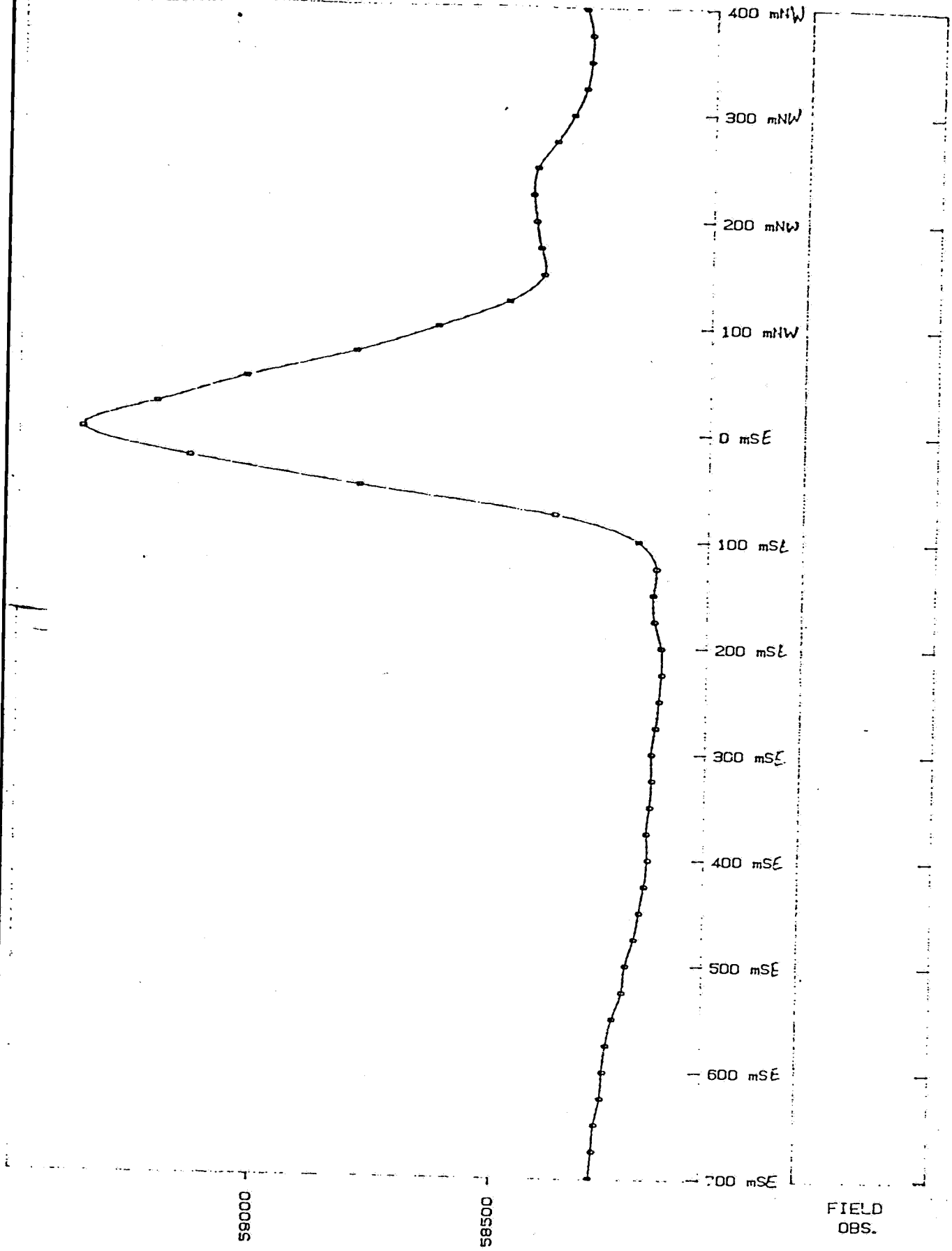


HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 40 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58584.9 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 190N649E
LINE & FID. NO. : 1242.ON/2230
SURVEY DATE : 18/10/86

MAGNETIC PROFILE (nT)
BARTON 5536-2/E01
ANOM. 362E1
LINE OW

220

00000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
600W
500W
400W
300W
200W
100W
0E
100E
200E
300E
400E
500E
600E
1
2
3
4
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12
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON5536-2E01
SIROTEM PROFILE TRAVERSE NO. ON
LOOP= 13 m

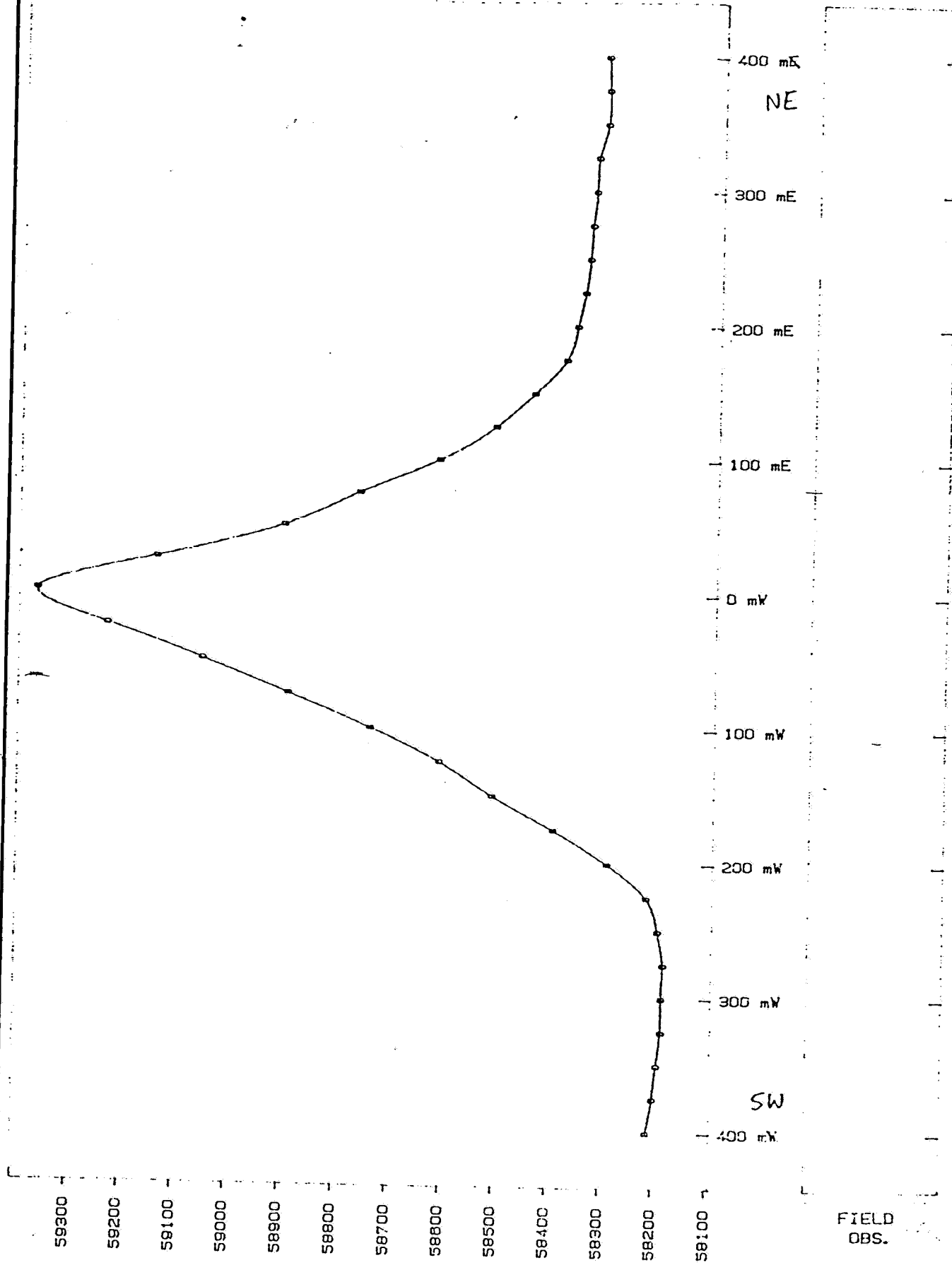


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 110 nT/CM
LINE AZIMUTH : ~~N0E~~ 135
PEAK MAG. READ. : 59367.6 nT
MAP SHEET : SH53-9
AMG OF ON/OE : N/A
LINE & FID. NO. : 1331.0N/4808
SURVEY DATE : 22/10/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-3, W11
ANOM. 63W11
LINE 0W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

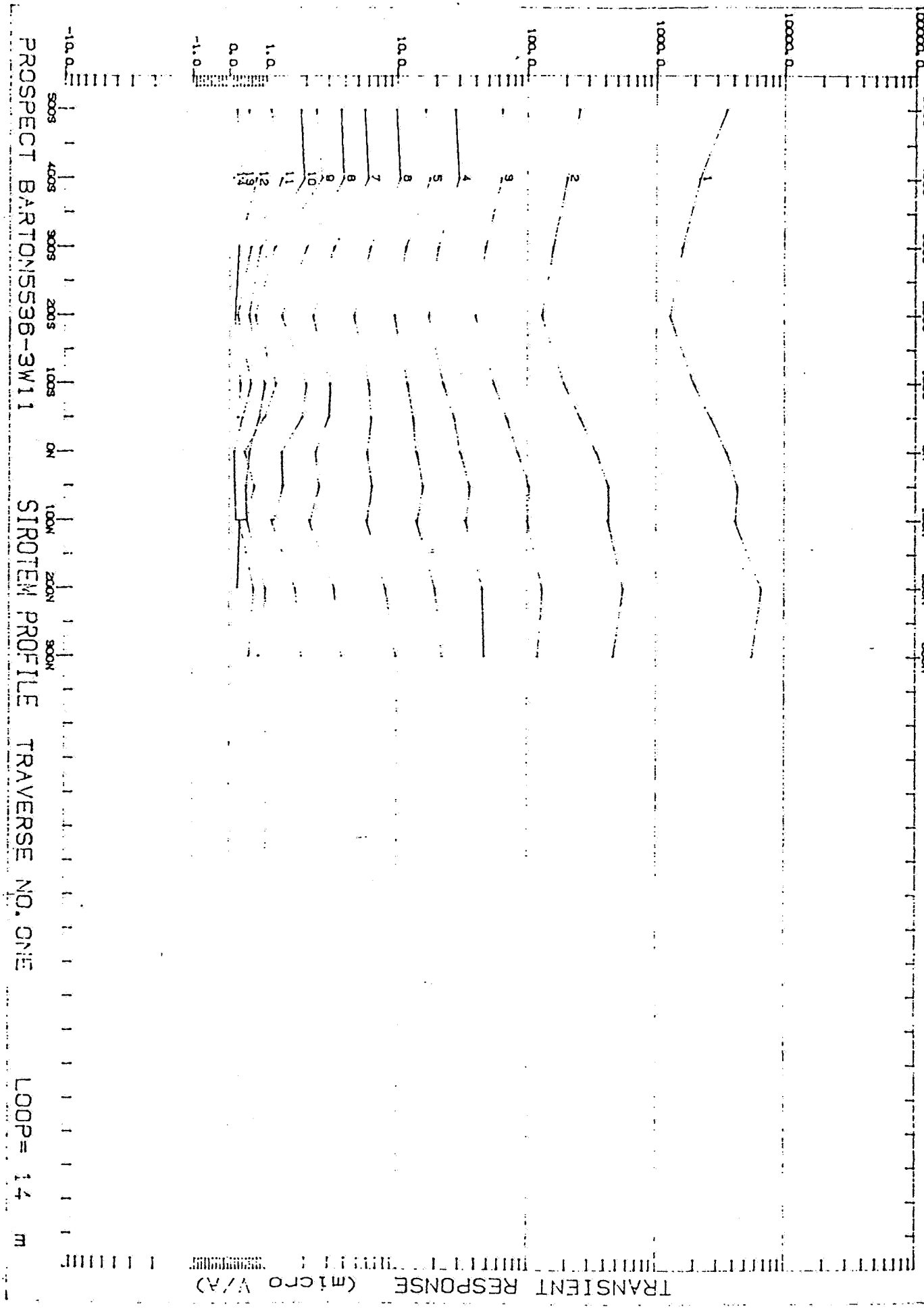


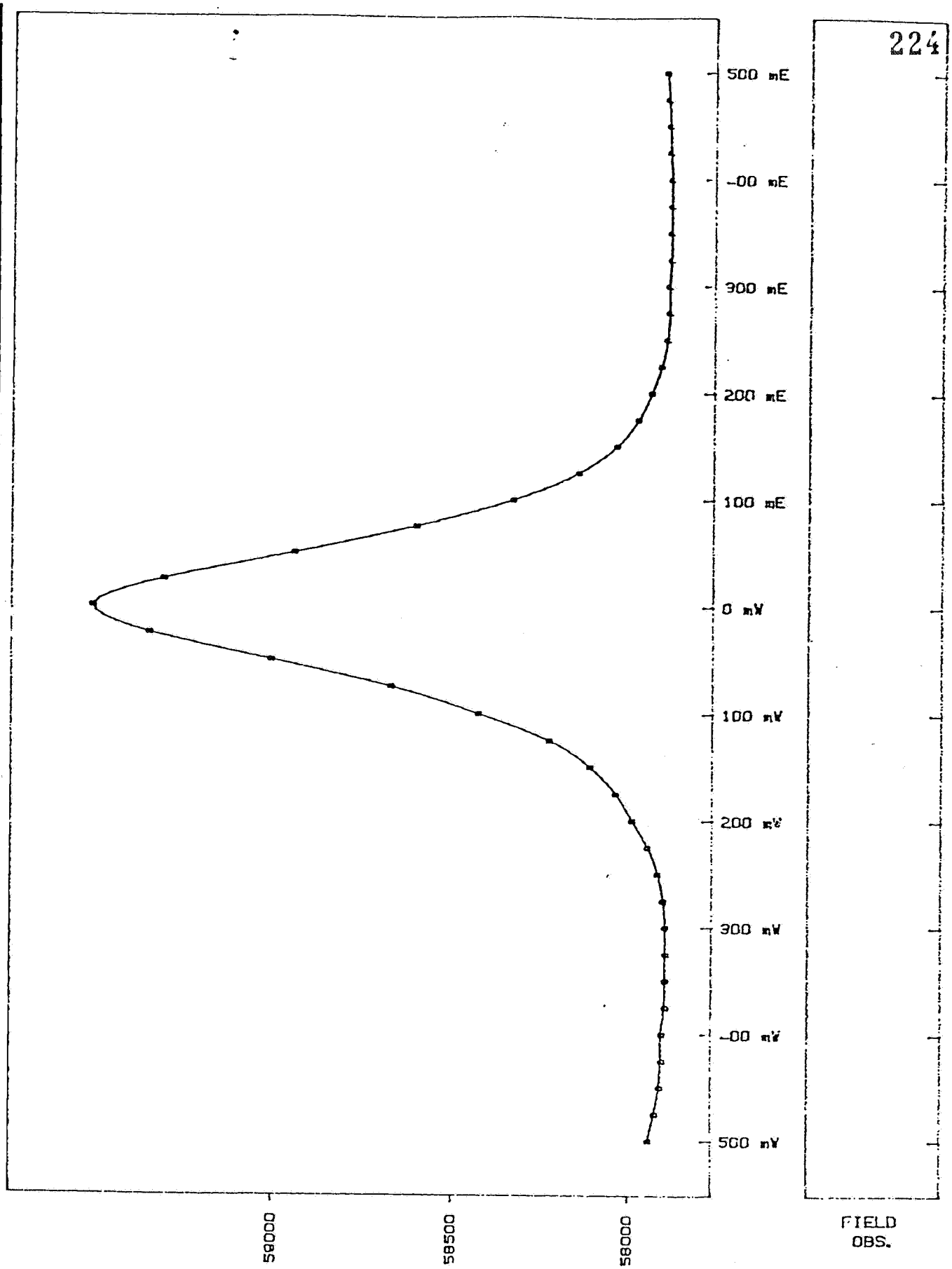
HORIZ. SCALE : 1: 4000
VERTICAL SCALE : 100 nT/CM
LINE AZIMUTH : ~~N90E~~ 45
PEAK MAG. READ. : 59367.6 nT
MAP SHEET : SH53-9
AMG OF ON/OE : N/A
LINE & FID. NO. : 1331.0N/4808
SURVEY DATE : 22/10/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-3/W11
ANOM. 63W11
LINE 0NW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


PROSPECT BARTON5536-3W11
SIROTEM PROFILE TRAVERSE NO. ONE
LOOP= 14 m
TRANSIENT RESPONSE (micro V/A)
-10.0
0.0
1.0
10.0
100.0
1000.0
10000.0
100000.0
500S
400S
300S
200S
100S
0N
100N
200N
300N
1
2
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13

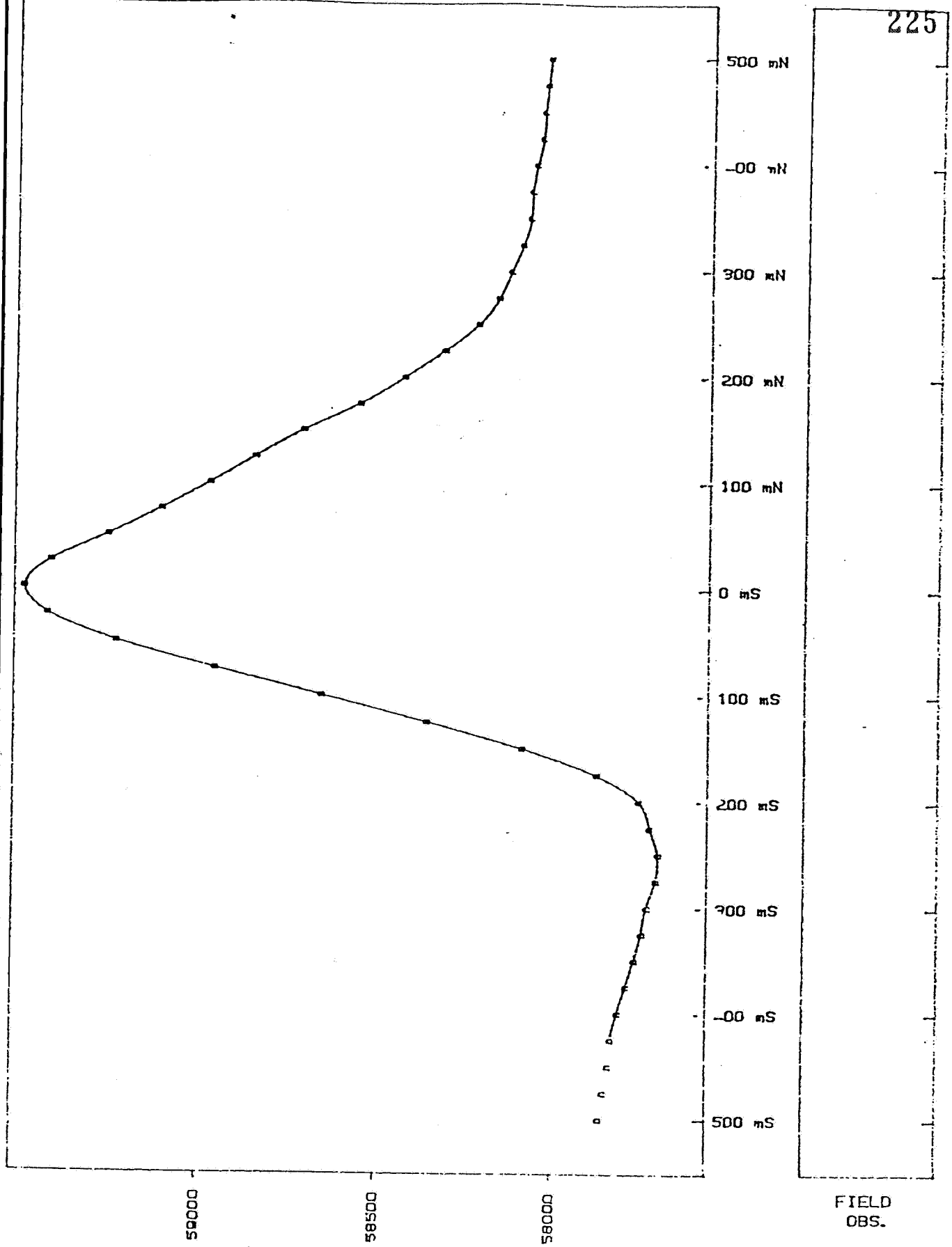


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 150 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 59500 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 2095N6220E
LINE & FID. NO.: 1353. ON/2870
SURVEY DATE : 18/09/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536--4W17
ANOM. 64W17
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

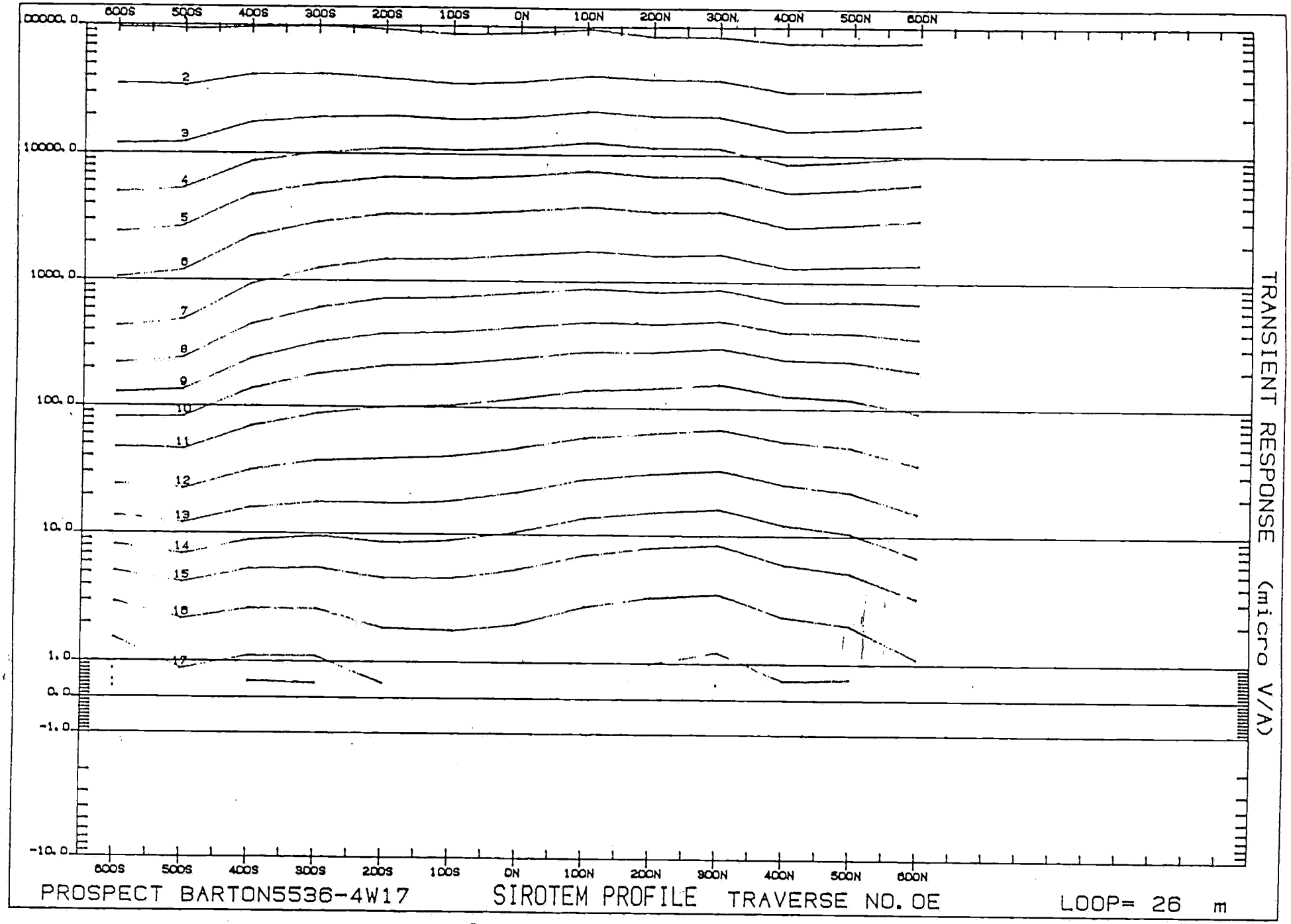


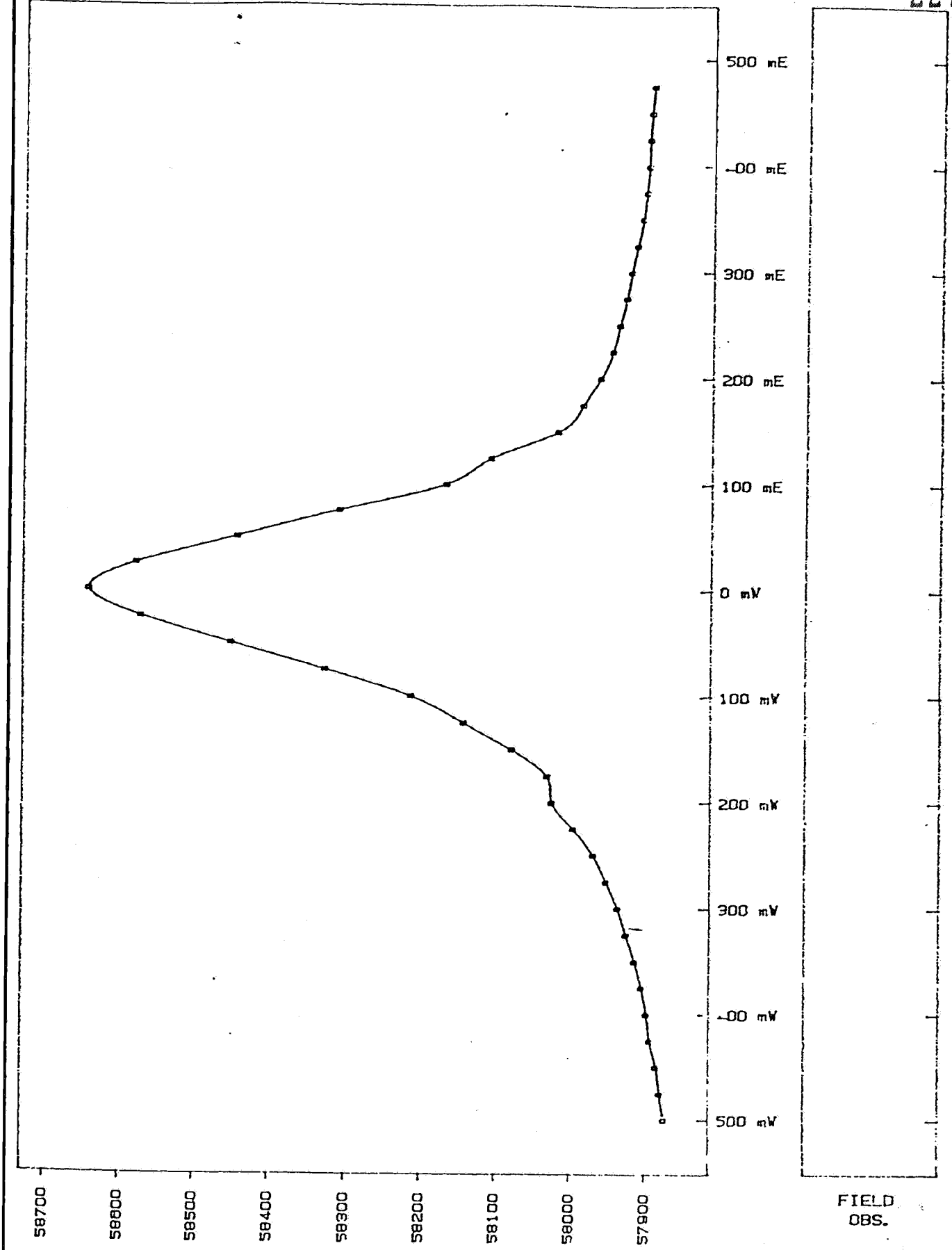
HORIZ. SCALE	:	1: 5000
VERTICAL SCALE	:	150 nT/CM
LINE AZIMUTH	:	NOE
PEAK MAG. READ.	:	59500 nT
MAP SHEET	:	SH59-9
AMG OF ON/OE	:	2095N6220E
LINE & FID. NO.	:	1953.0N/2870
SURVEY DATE	:	18/09/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4W17
AVOM. 64W17
LINE 0W

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL


600S
500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
500N
600N
2
3
4
5
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TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON5536-4W17
SIROTEM PROFILE TRAVERSE NO. OE
LOOP= 26 m

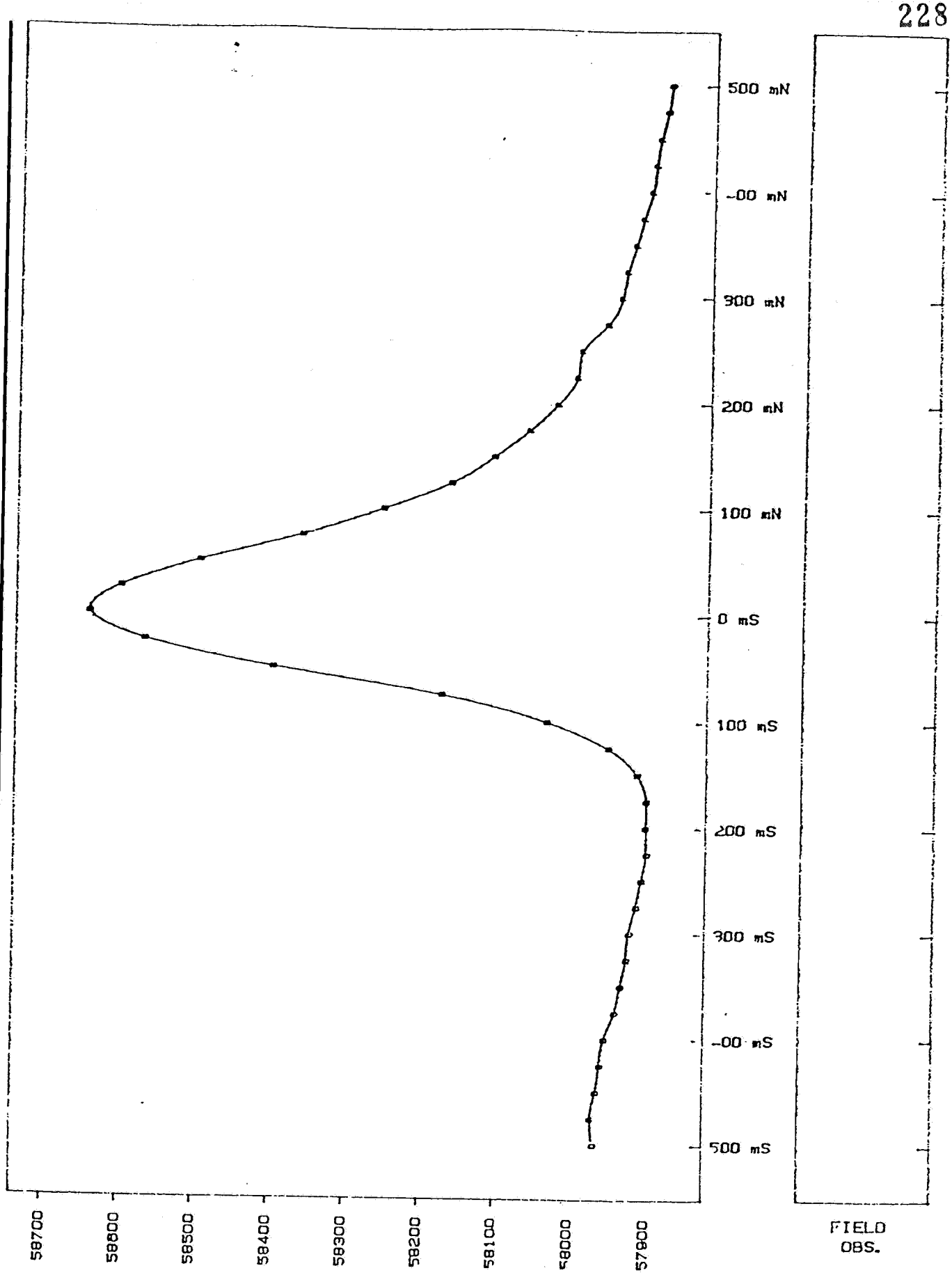


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 70 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58644.3 nT
MAP SHEET : SH53-8
AMG OF ON/OE : 204N827E
LINE & FID. NO. : 1344.35N/2808
SURVEY DATE : 09/09/88

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4/E06
ANOM. 64E06
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

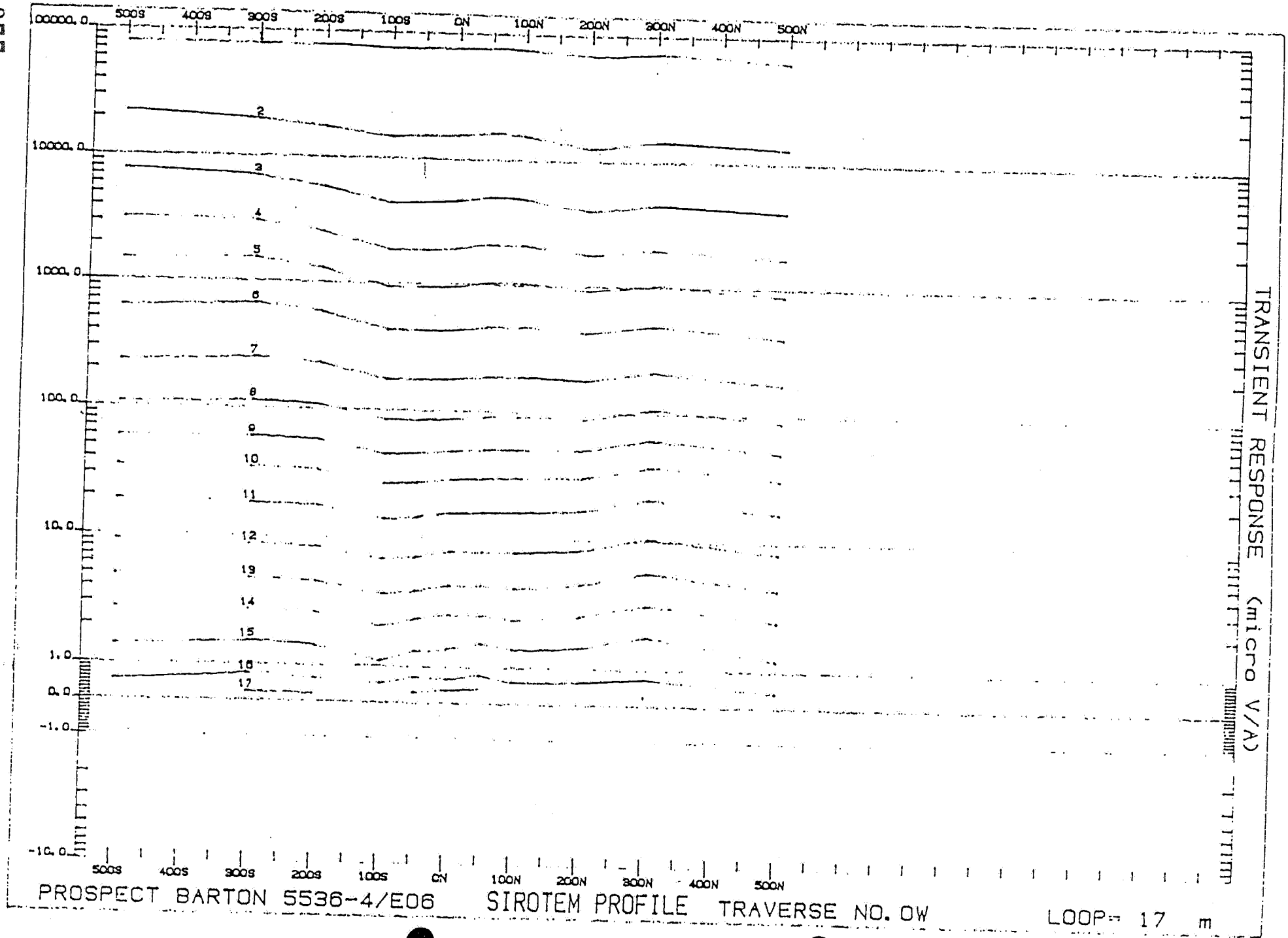


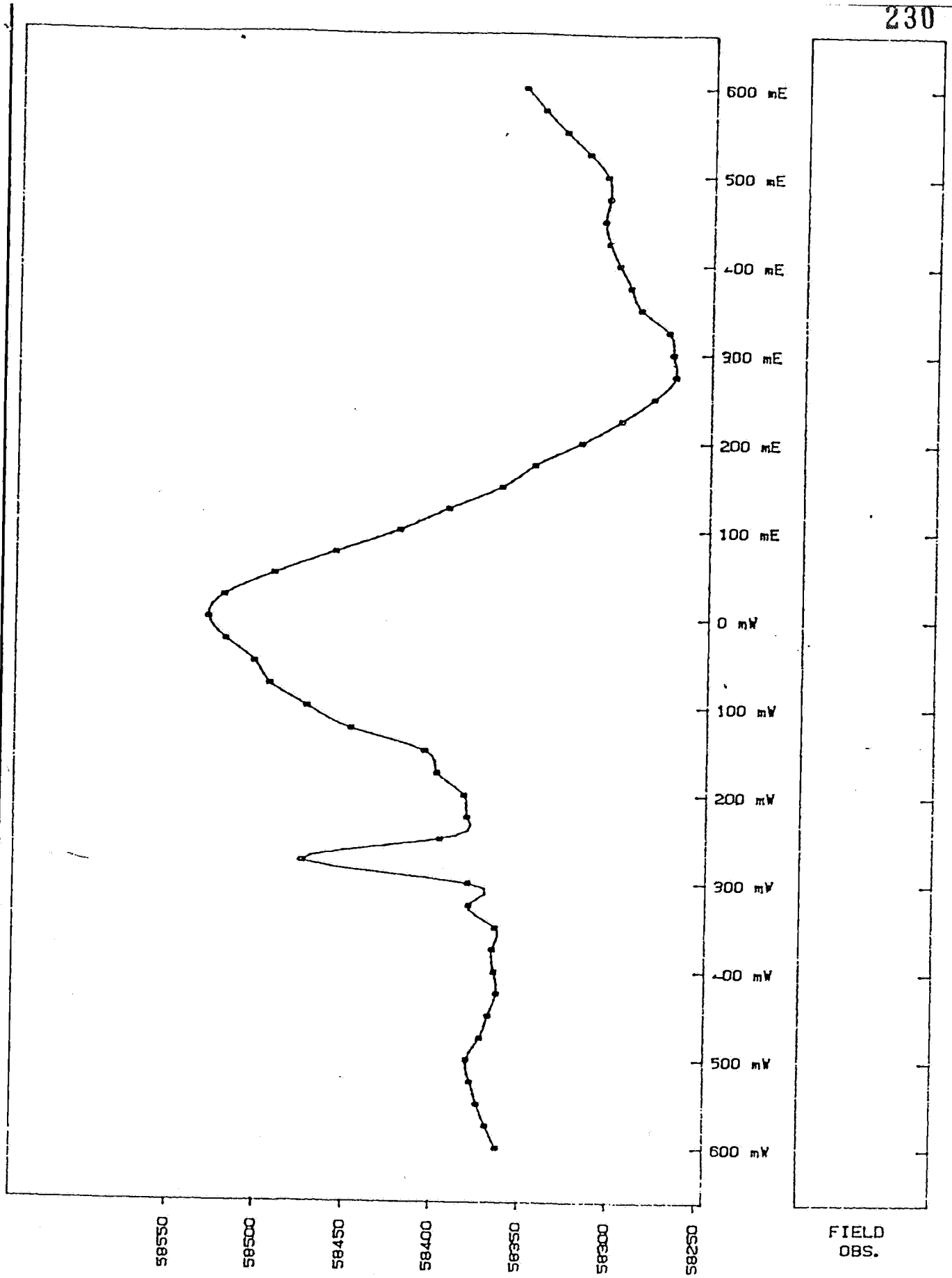
HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 70 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58644.3 nT
MAP SHEET : SH53-8
AMG OF ON/OE : 204N627E
LINE & FID. NO. : 1344.35N/2808
SURVEY DATE : 09/09/88

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4/E06
ANOM. 64E06
LINE OW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


00000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
500N
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TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-4/E06 SIROTEM PROFILE TRAVERSE NO. OW
LOOP= 17 m

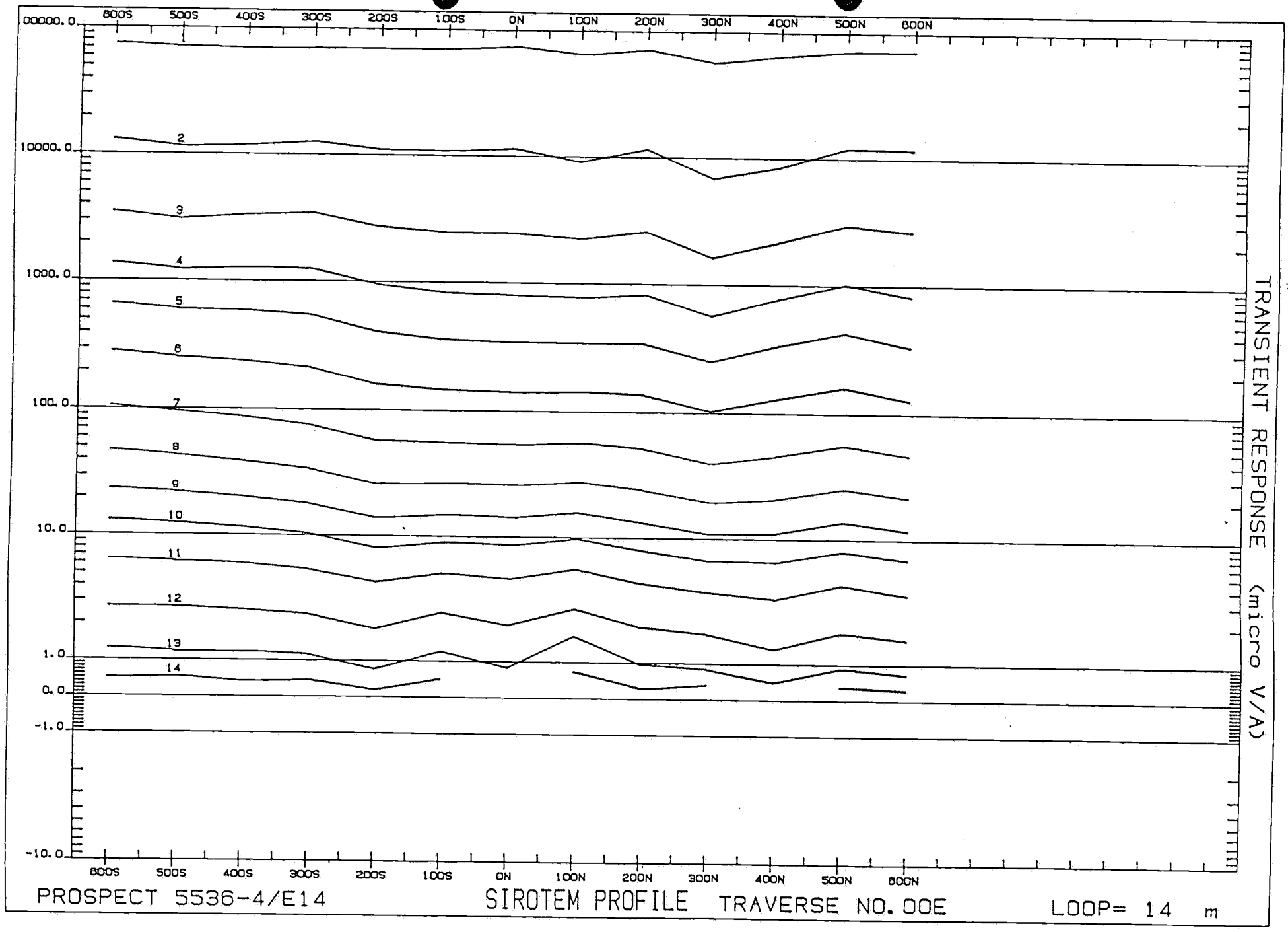


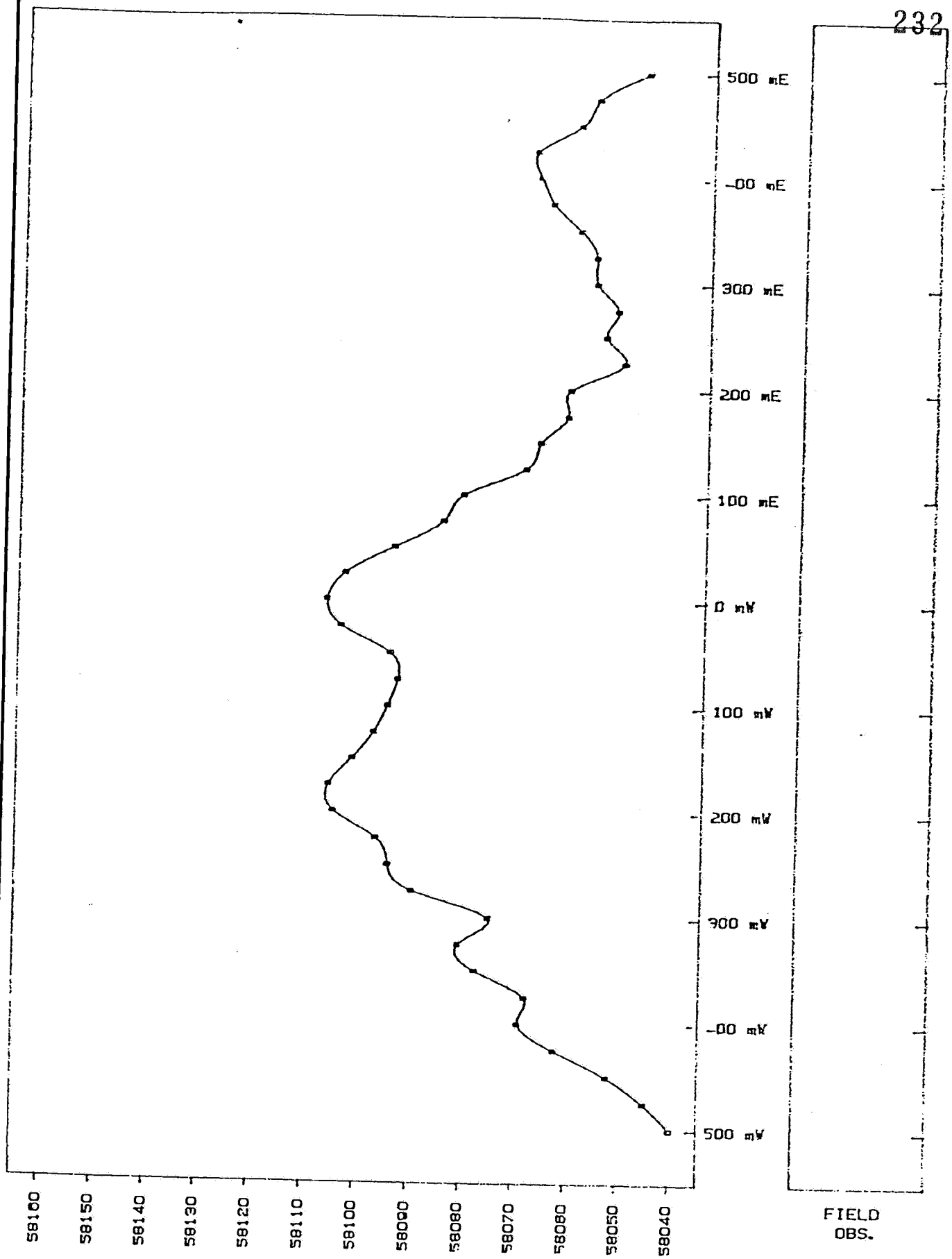
HORIZ. SCALE : 1: 8000
VERTICAL SCALE : 30 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58590.8 nT
MAP SHEET : SH59-9
AMG OF ON/OE : 201N832E
LINE & FID. NO. : 1919.ON/6428
SURVEY DATE : 19/09/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4/E14
ANOM. 64E14
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL


00000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
800S
500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
500N
600N
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TRANSIENT RESPONSE (micro V/A)
PROSPECT 5536-4/E14
SIROTEM PROFILE TRAVERSE NO. 00E
LOOP= 14 m

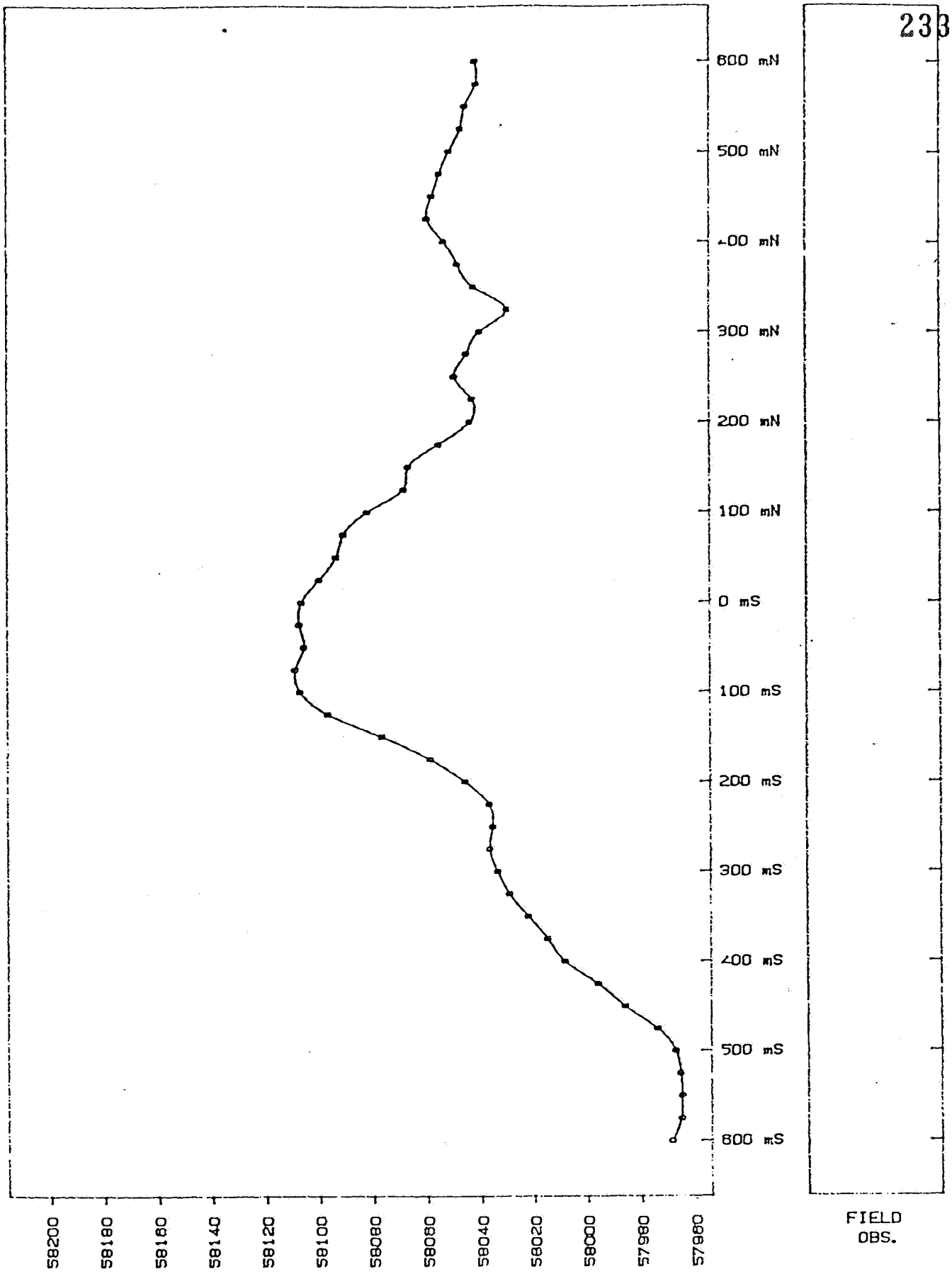


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58107.9 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 206N629E
LINE & FID. NO. : 1328.0S/3694
SURVEY DATE : 19/09/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4/E15
ANOM. 64E15
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

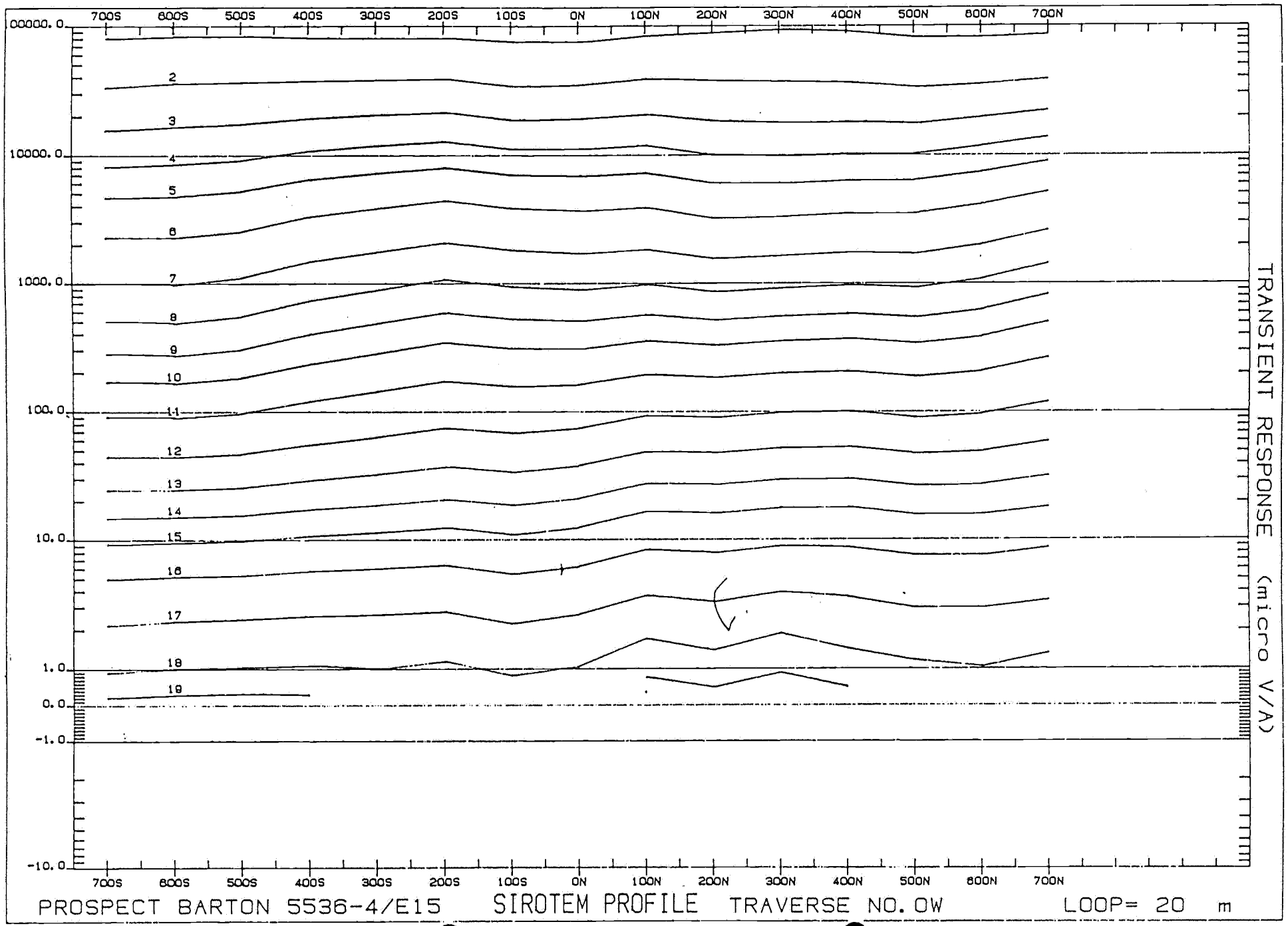


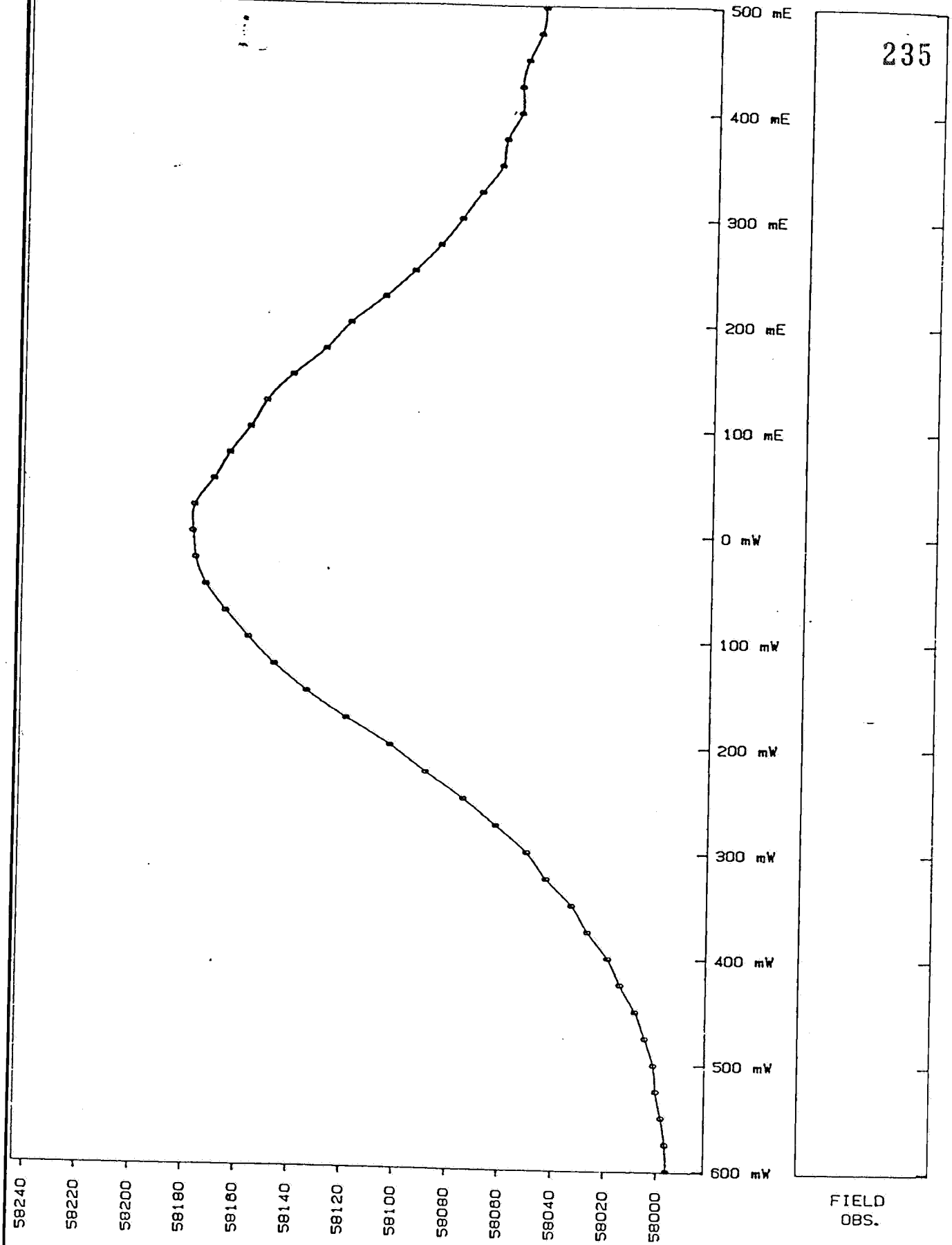
HORIZ. SCALE : 1: 8000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58109 nT
MAP SHEET : SH53-9
AMG OF ON/OE : 206N629E
LINE & FID. NO.: 1328.0S/9894
SURVEY DATE : 19/09/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4/E15
ANOM. 64E15
LINE 0W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


700S 600S 500S 400S 300S 200S 100S 0N 100N 200N 300N 400N 500N 600N 700N
00000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
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TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-4/E15 SIROTEM PROFILE TRAVERSE NO. OW LOOP= 20 m

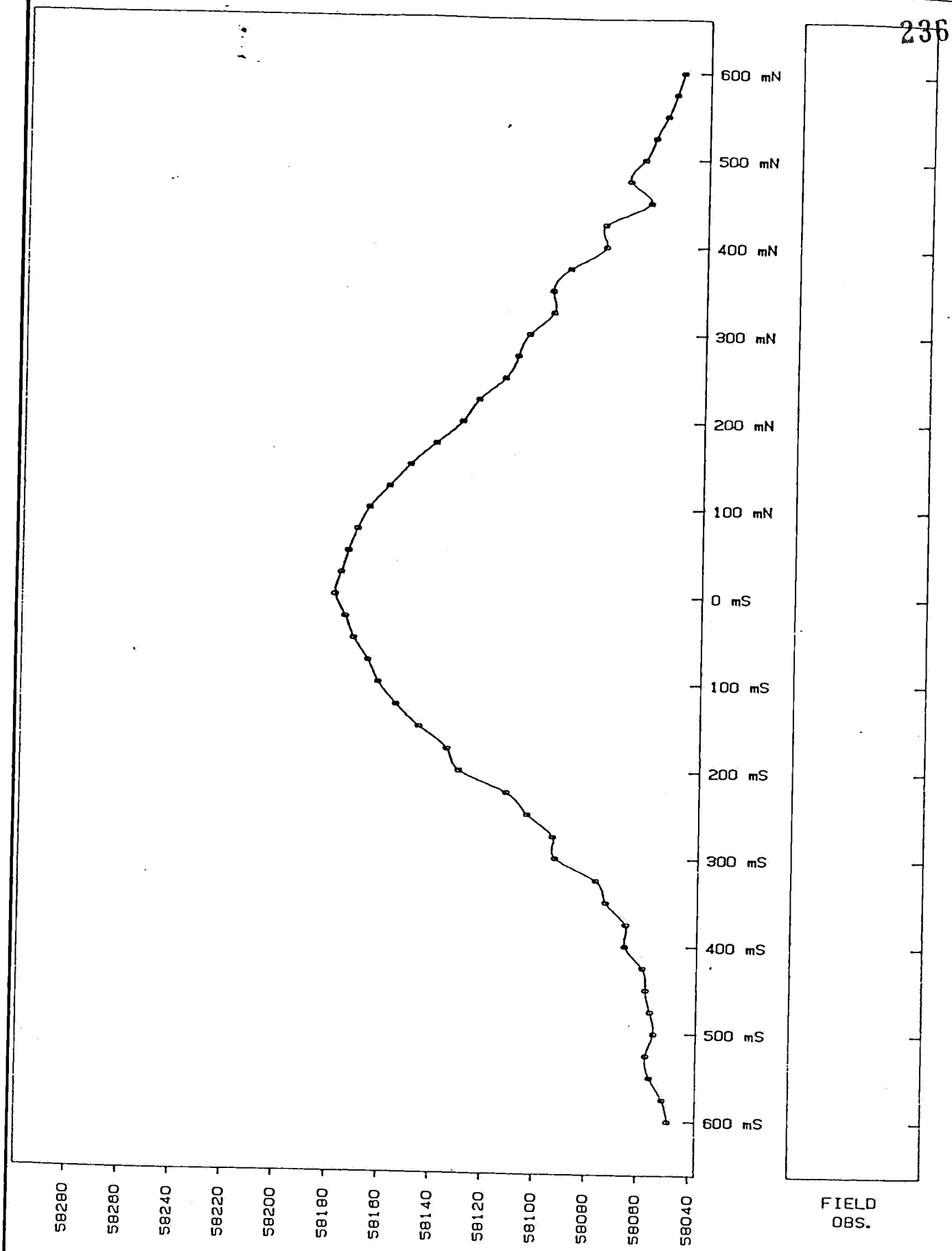


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58180 nT
MAP SHEET : SH53-13
AMG OF ON/OE : 6568N343E
LINE & FIO. NO. : 1222.ON/172
SURVEY DATE : 10/01/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5535-1/W11
ANOM. 51W11
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL

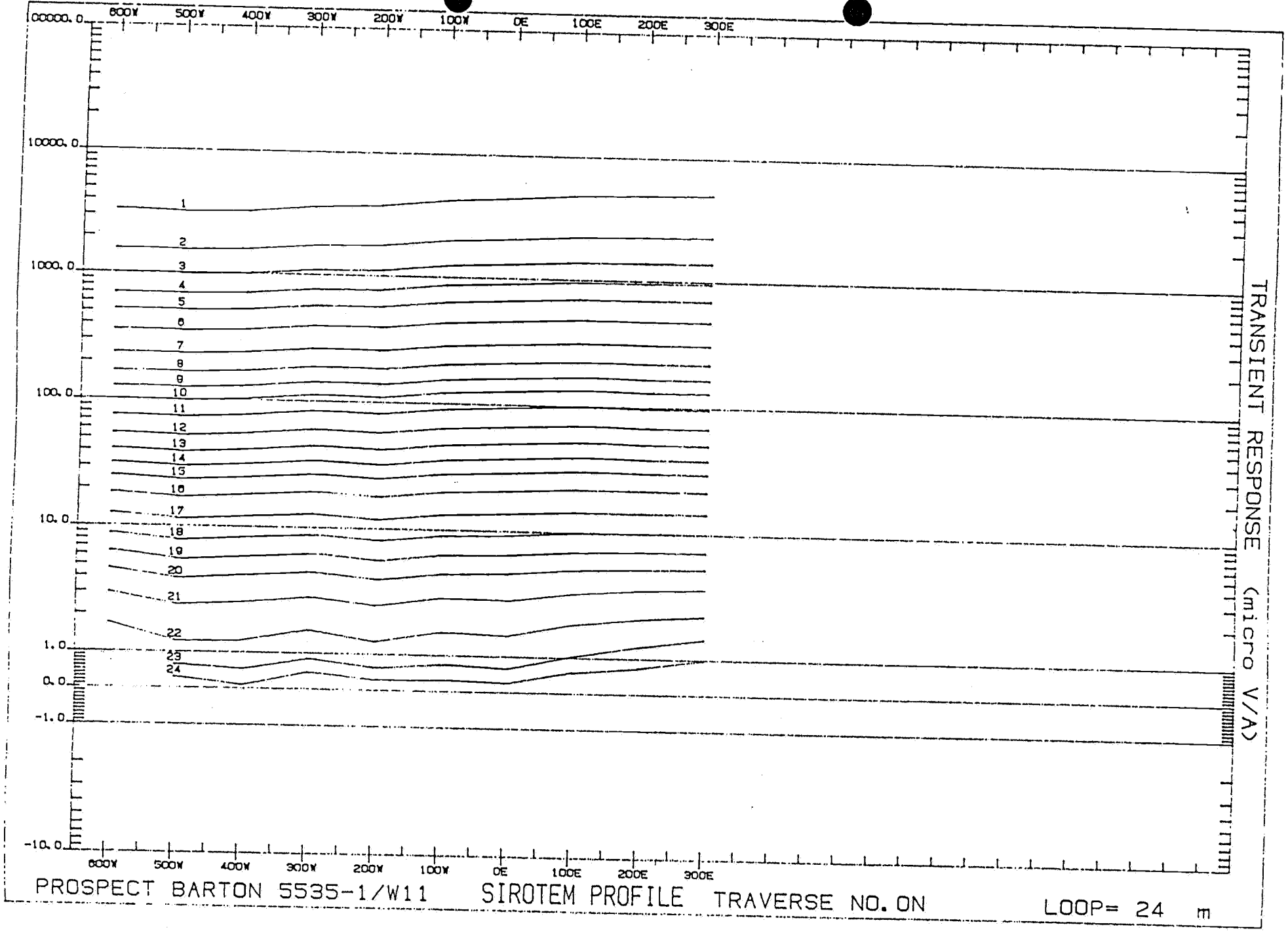


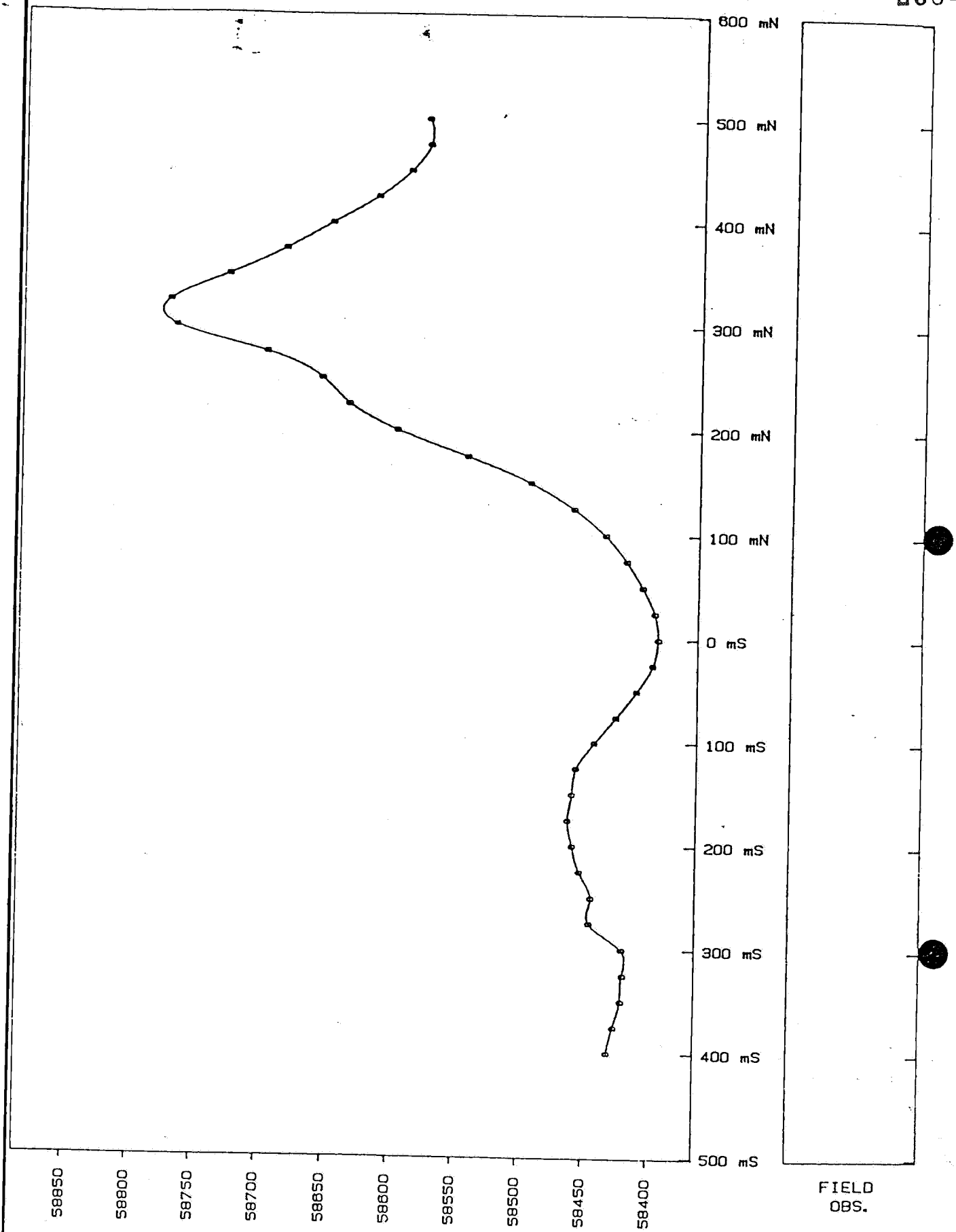
HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : N0E
PEAK MAG. READ. : 58180 nT
MAP SHEET : SH53-13
AMG OF ON/OE : 6568N343E
LINE & FIO. NO. : 1222.ON/172
SURVEY DATE : 10/01/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5535-1/W11
ANOM. 51W11
LINE OW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


600W 500W 400W 300W 200W 100W 0E 100E 200E 300E
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
3
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21
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23
24
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5535-1/W11 SIROTEM PROFILE TRAVERSE NO. ON
LOOP= 24 m

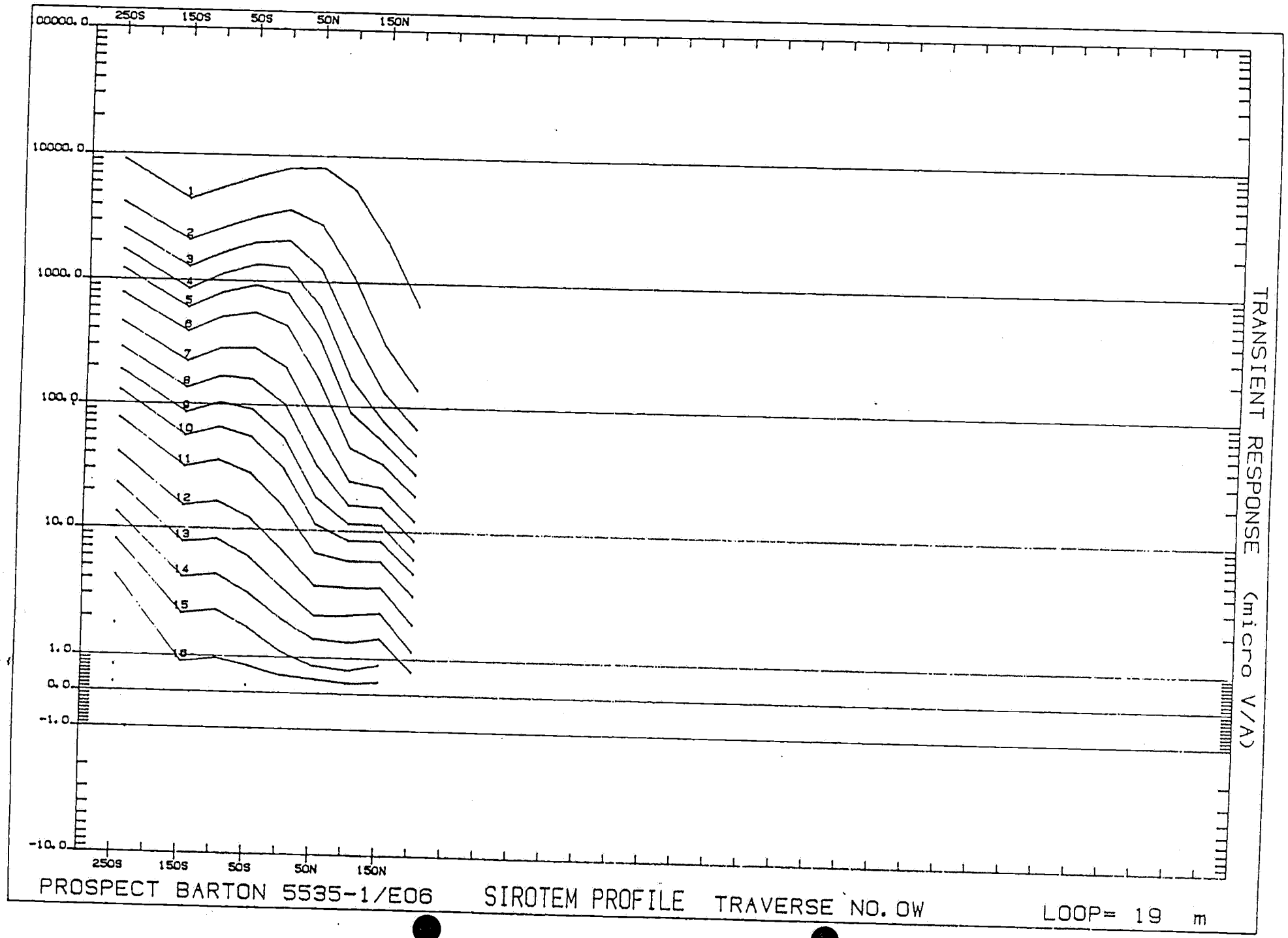


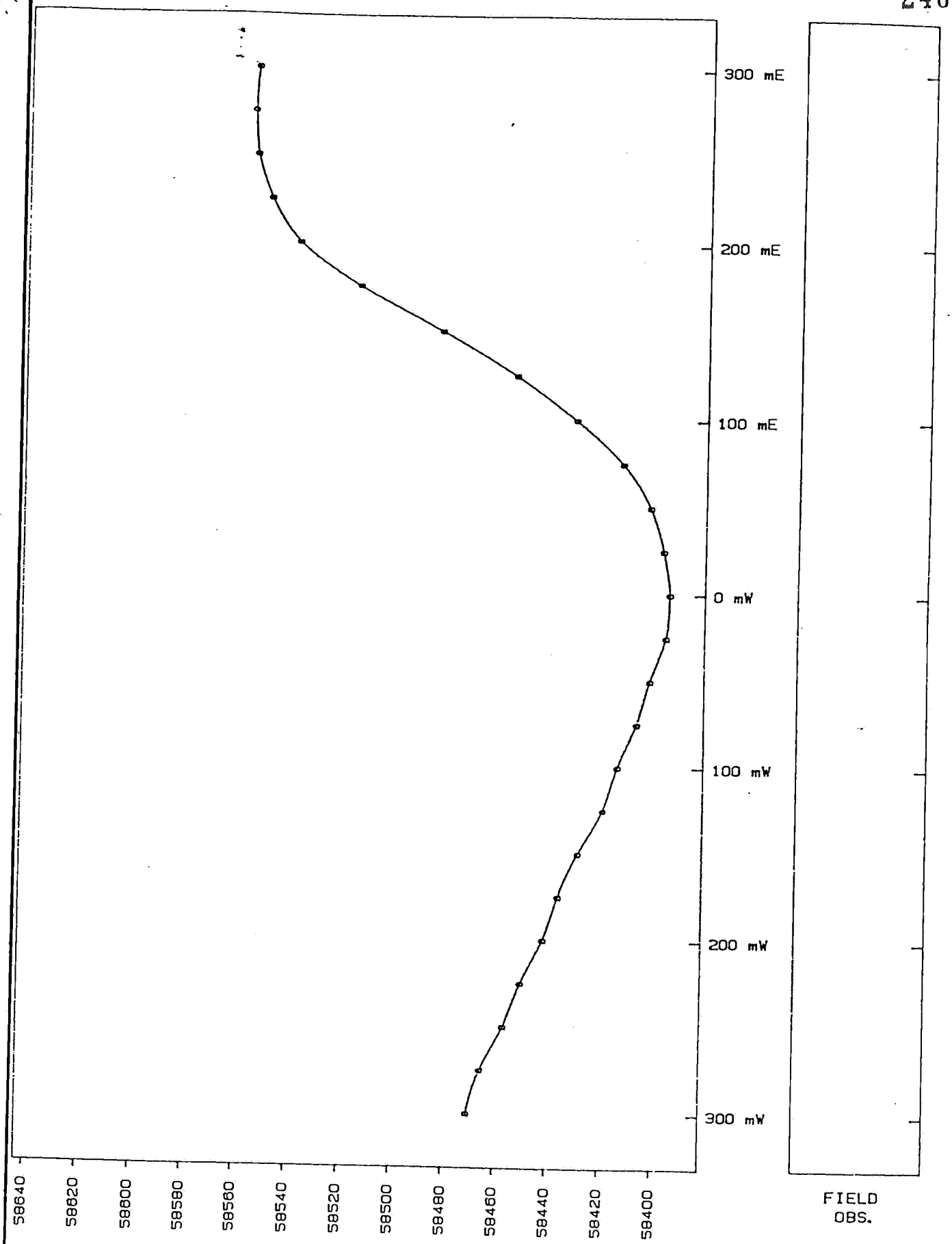
HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 40 nT/CM
LINE AZIMUTH : N0E
PEAK MAG. READ. : 58773.8 nT
MAP SHEET : SH53-13
AMG OF ON/0E : 6548N352E
LINE & FIO. NO. : 1163.0N/3183
SURVEY OATE : 10/01/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5535-1/E06
ANOM. 51E06
LINE 0W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEI	


250S
150S
50S
50N
150N
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
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16
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5535-1/E06 SIROTEM PROFILE TRAVERSE NO. OW
LOOP= 19 m



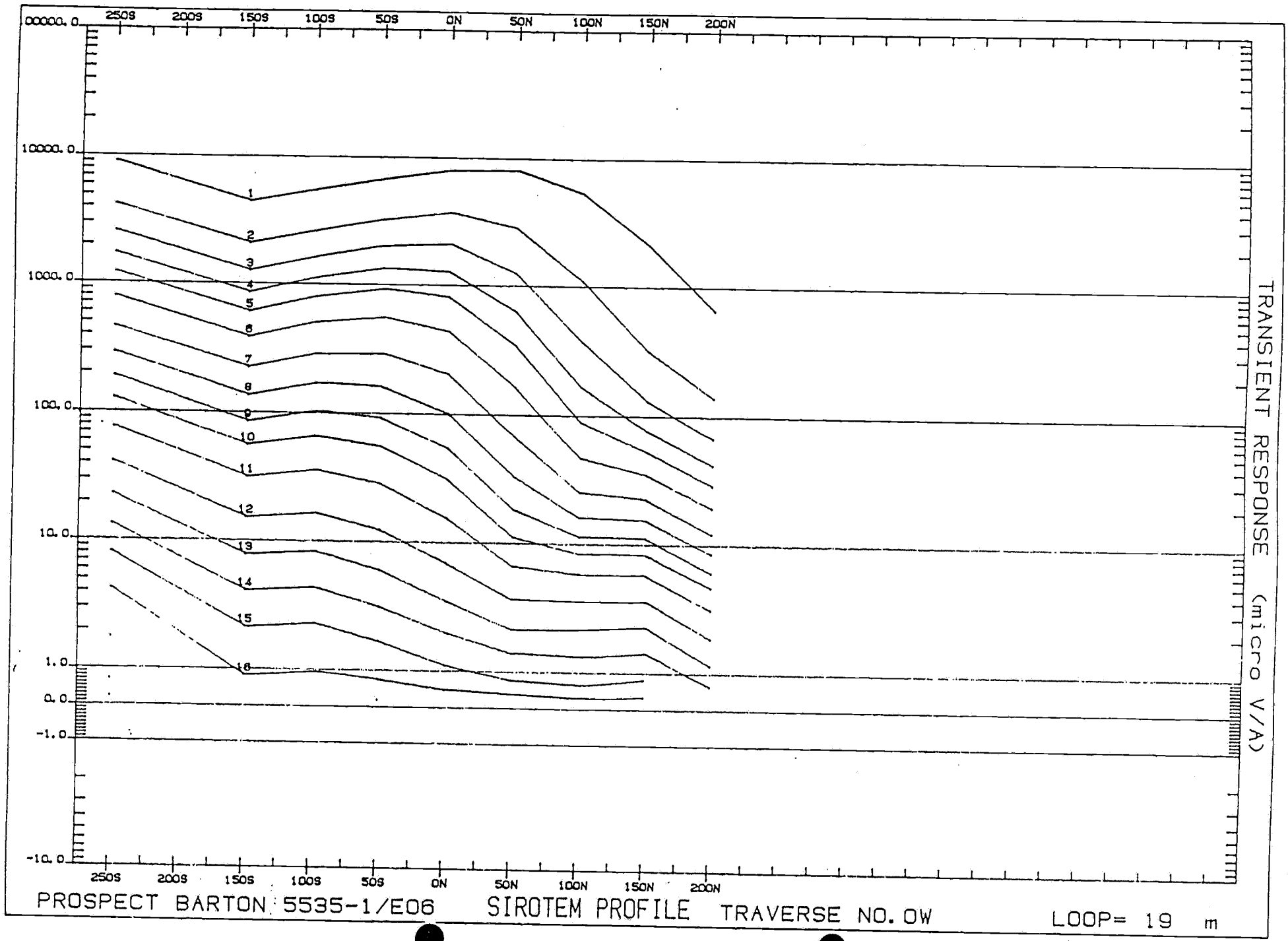
HORIZ. SCALE : 1: 3000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58557.2 nT
MAP SHEET : SH53-13
AMG OF ON/OE : 6548N352E
LINE & FID. NO. : 1163.ON/3183
SURVEY DATE : 10/01/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5535-1/E06
ANOM. 51E06
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

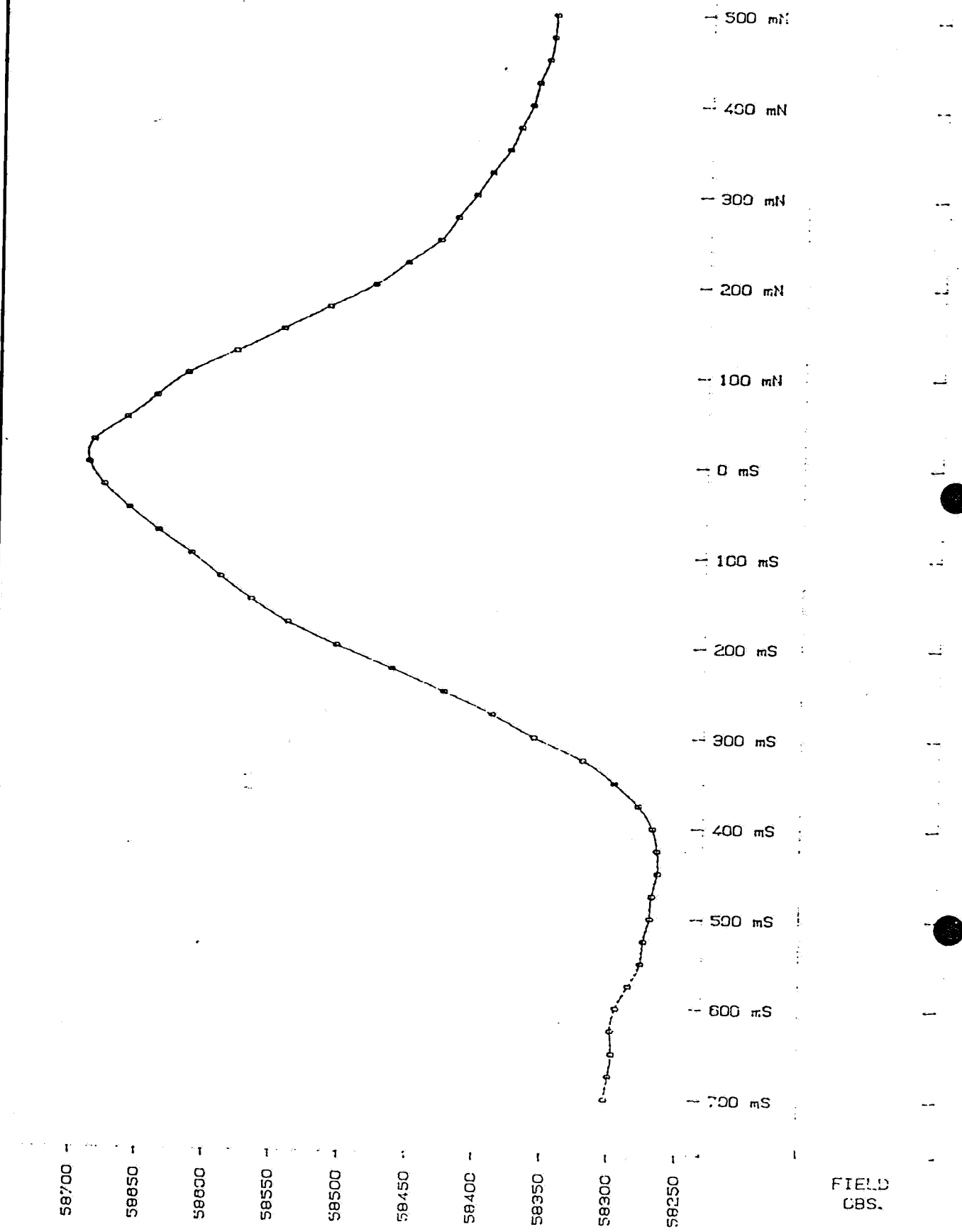
241


250S 200S 150S 100S 50S 0N 50N 100N 150N 200N
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
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15
16
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5535-1/E06 SIROTEM PROFILE TRAVERSE NO. OW
LOOP= 19 m

EL 1151

ANOMALIES

5536-2/E11
5536-2/E18
5536-2/E19
5536-3/W12
5536-3/W13
5536-3/E02
5536-4/W14

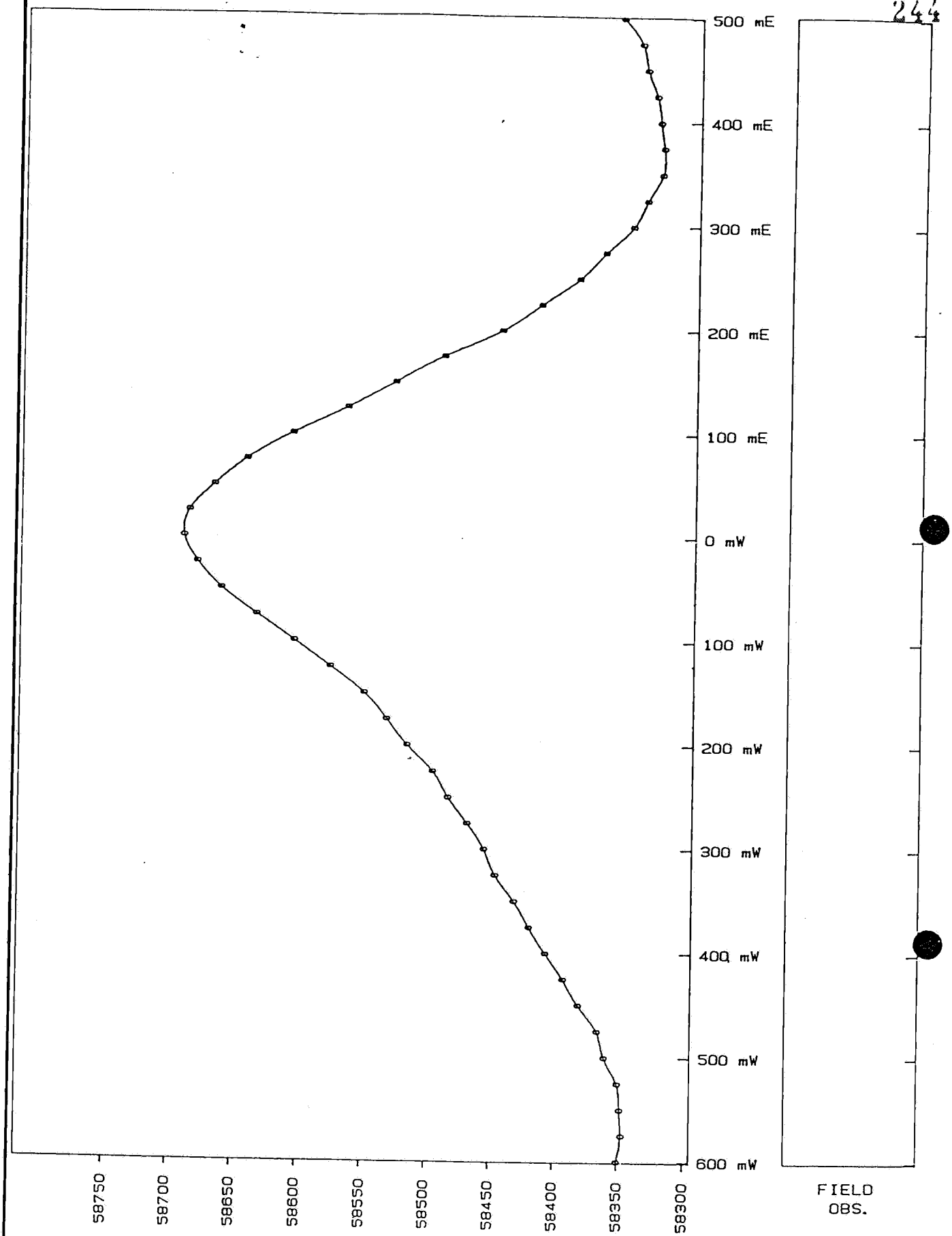


HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 40 nT/CM
LINE AZIMUTH : N30E
PEAK MAG. READ. : 58693.1 nT
MAP SHEET : H53-9
AMG OF ON/OE : 172N655E
LINE & FID. NO. : 1213.0S/594S
SURVEY DATE : 08/01/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2/E11
ANOM. 62E11
LINE 0N (300)

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

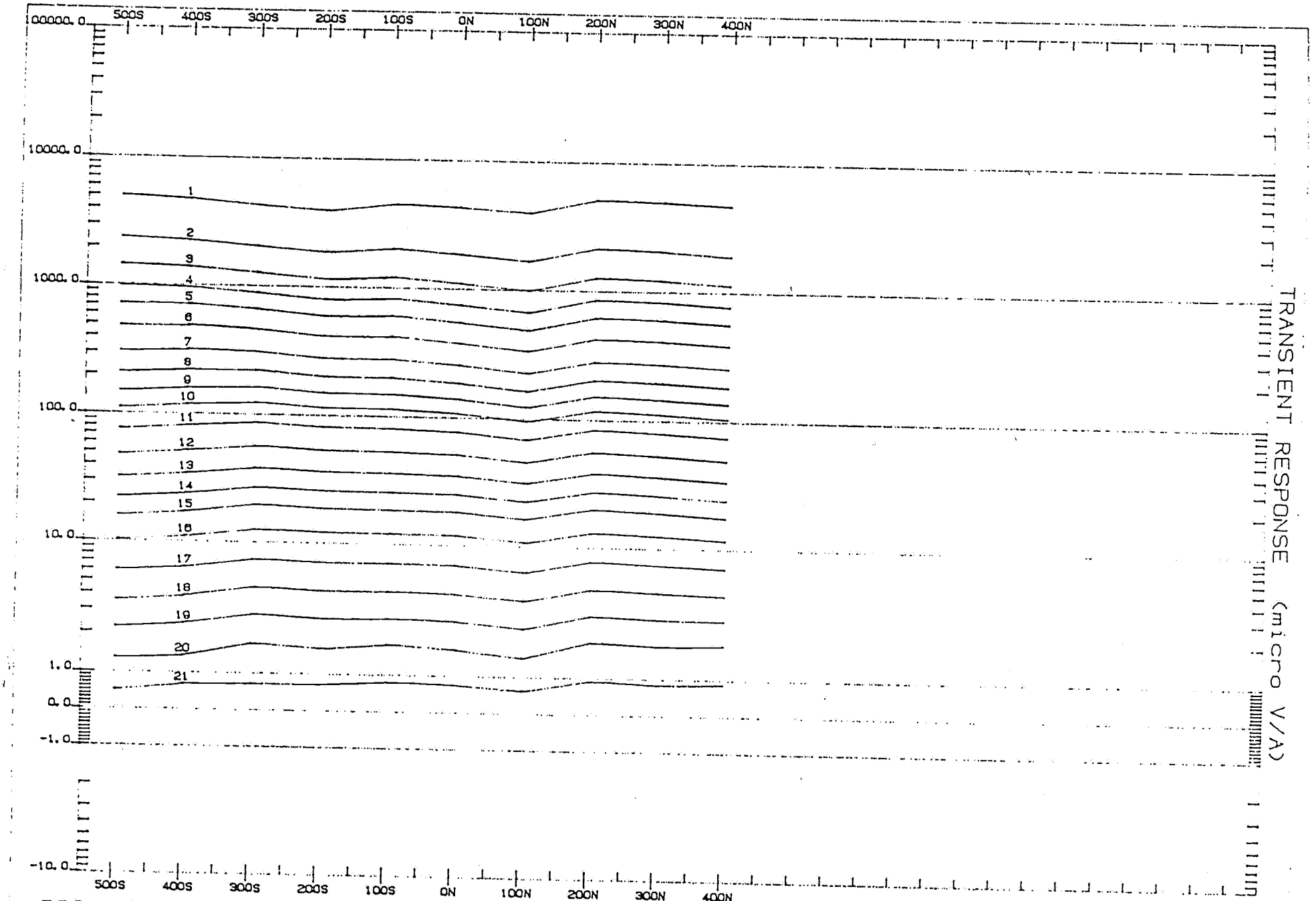


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 40 nT/CM
LINE AZIMUTH : N120E
PEAK MAG. READ. : 58693.1 nT
MAP SHEET : H53-9
AMG OF ON/OE : 172N655E
LINE & FID. NO. : 1213.0S/5949
SURVEY DATE : 08/01/87

STOCKDALE PROSPECTING LIMITED

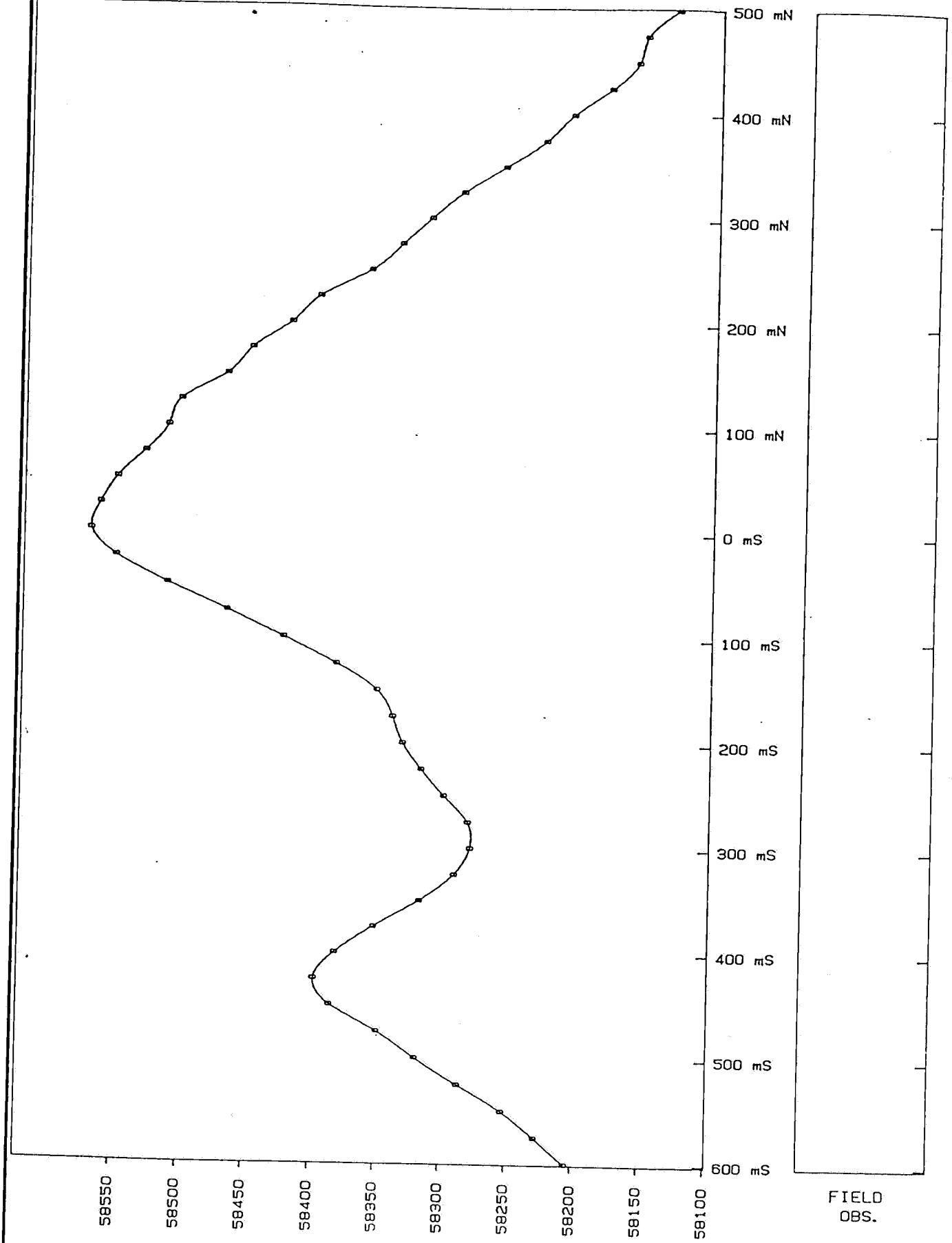
MAGNETIC PROFILE (nT)
BARTON 5536-2/E11
ANOM. 62E11
LINE ON(30)

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



PROSPECT BARTON 5536-2/E11 SIROTEM PROFILE TRAVERSE NO. OW LOOP= 21 m

oriented N30°E

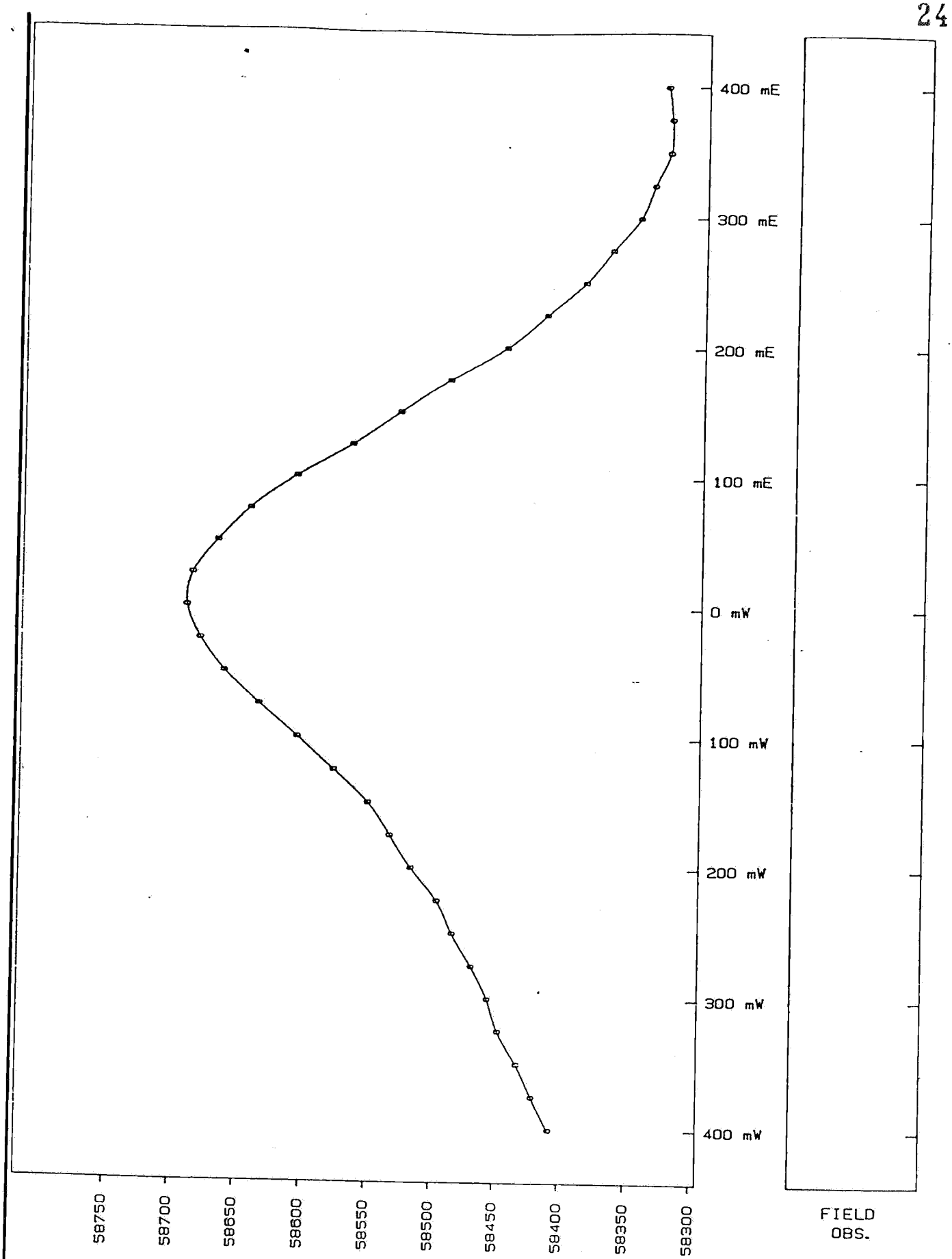


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 40 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58574.4 nT
MAP SHEET : H53-9
AMG OF ON/OE : 167N657E
LINE & FID. NO. : 1201.0S/5726
SURVEY DATE : 09/01/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2/E18
ANOM. 62E18
LINE 0W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

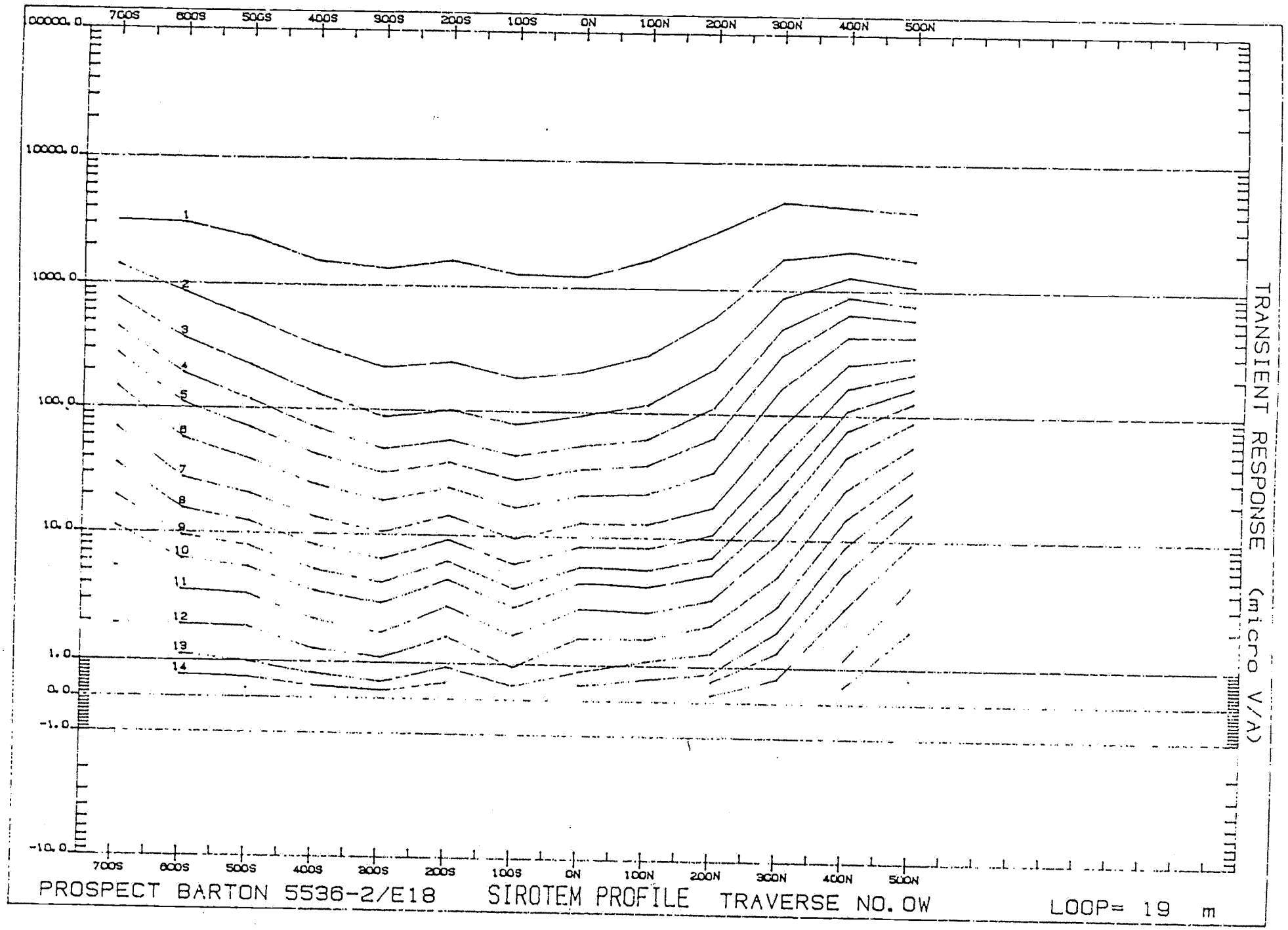


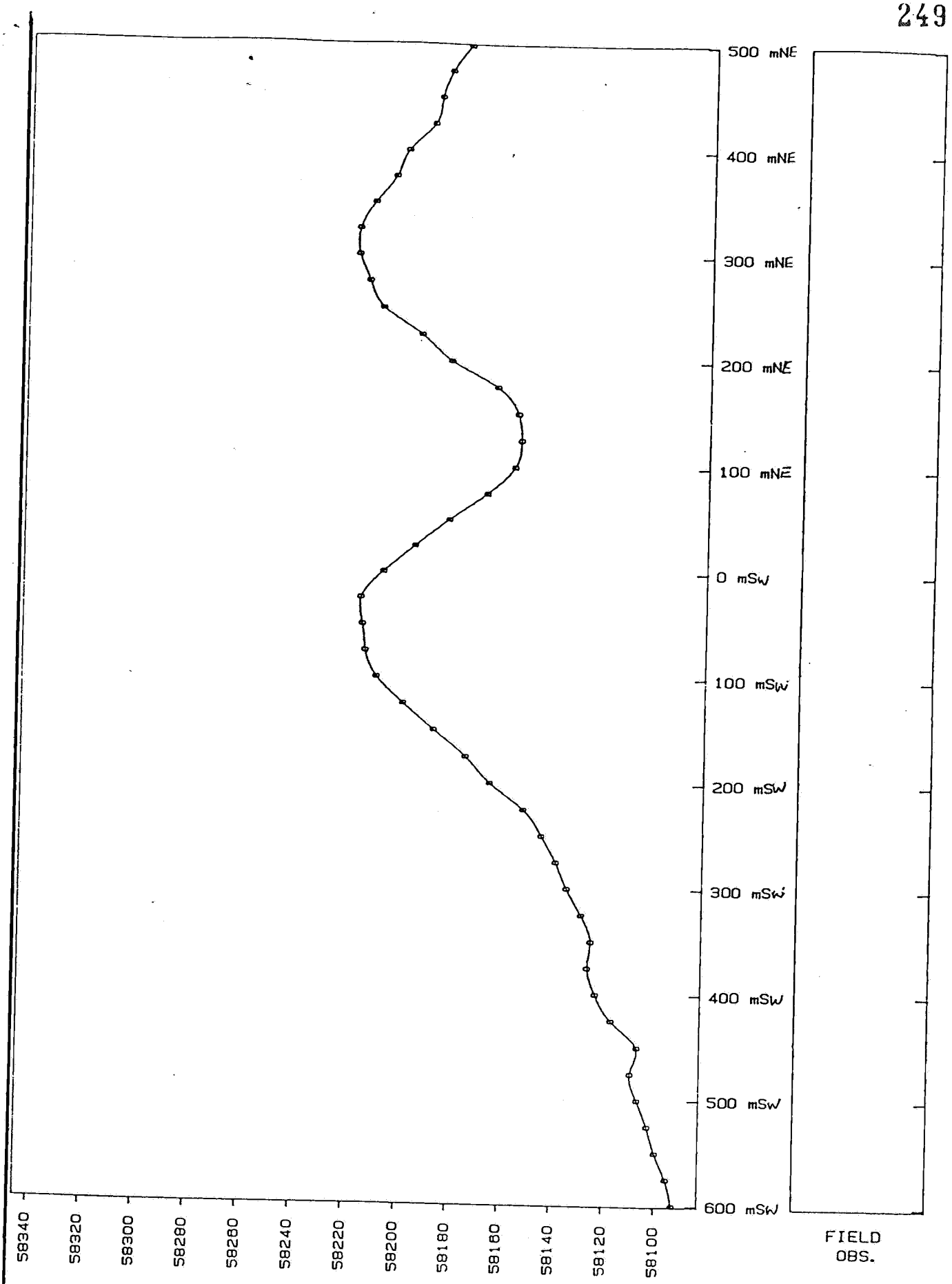
HORIZ. SCALE : 1: 4000
VERTICAL SCALE : 40 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58693.1 nT
MAP SHEET : H53-9
AMG OF ON/OE : 172N655E
LINE & FIO. NO. : 1213.0S/5949
SURVEY DATE : 08/01/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2/E11
ANOM. 62E11
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL


700S
600S
500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
500N
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
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TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-2/E18 SIROTEM PROFILE TRAVERSE NO. OW
LOOP= 19 m

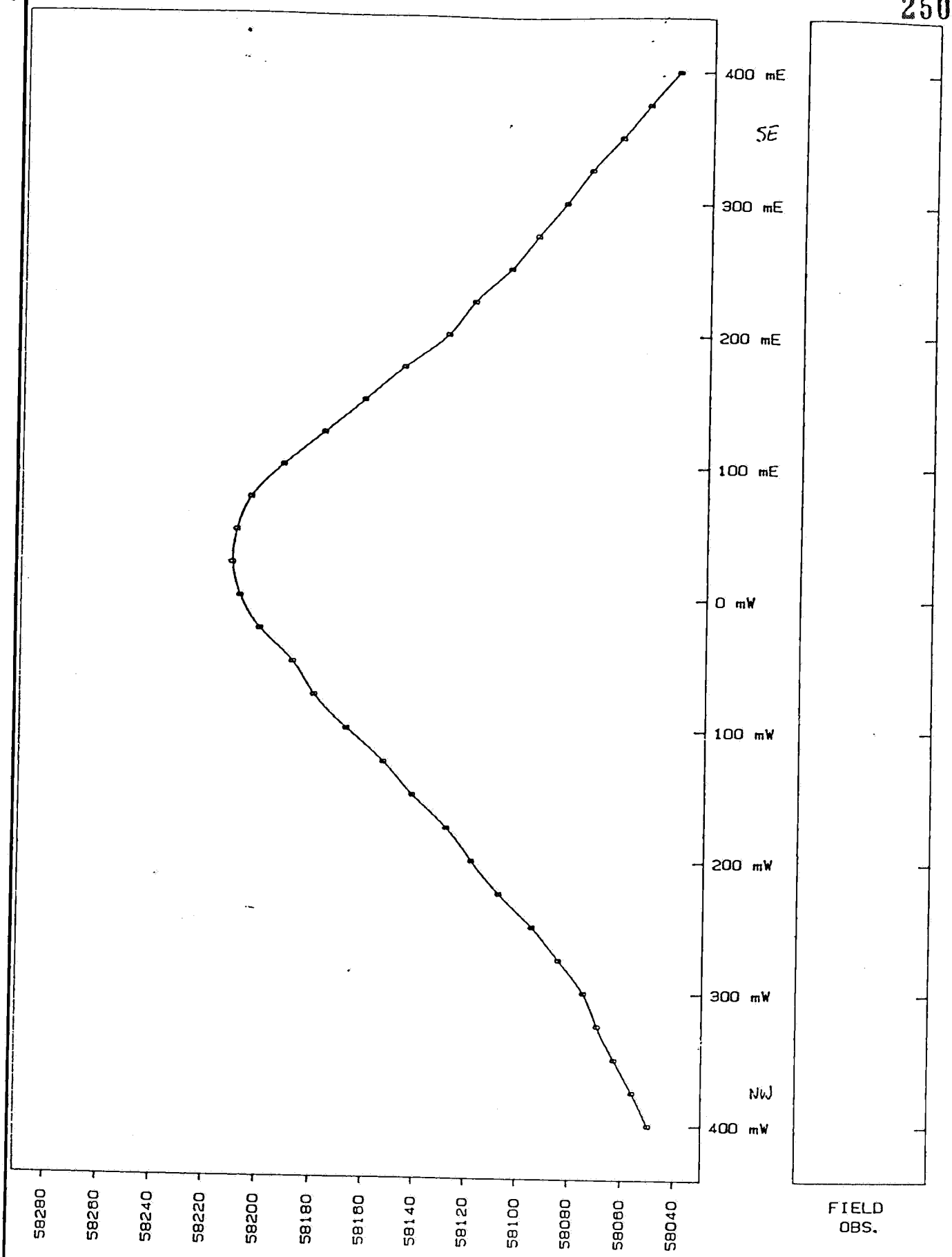


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : N45E
PEAK MAG. READ. : 58219.6 nT
MAP SHEET : H53-9
AMG OF ON/OE : 164N660E
LINE & FIO. NO. : 1190. ON/6595
SURVEY DATE : 09/01/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2/E19
ANOM. 62E19
LINE ~~ON~~ NW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

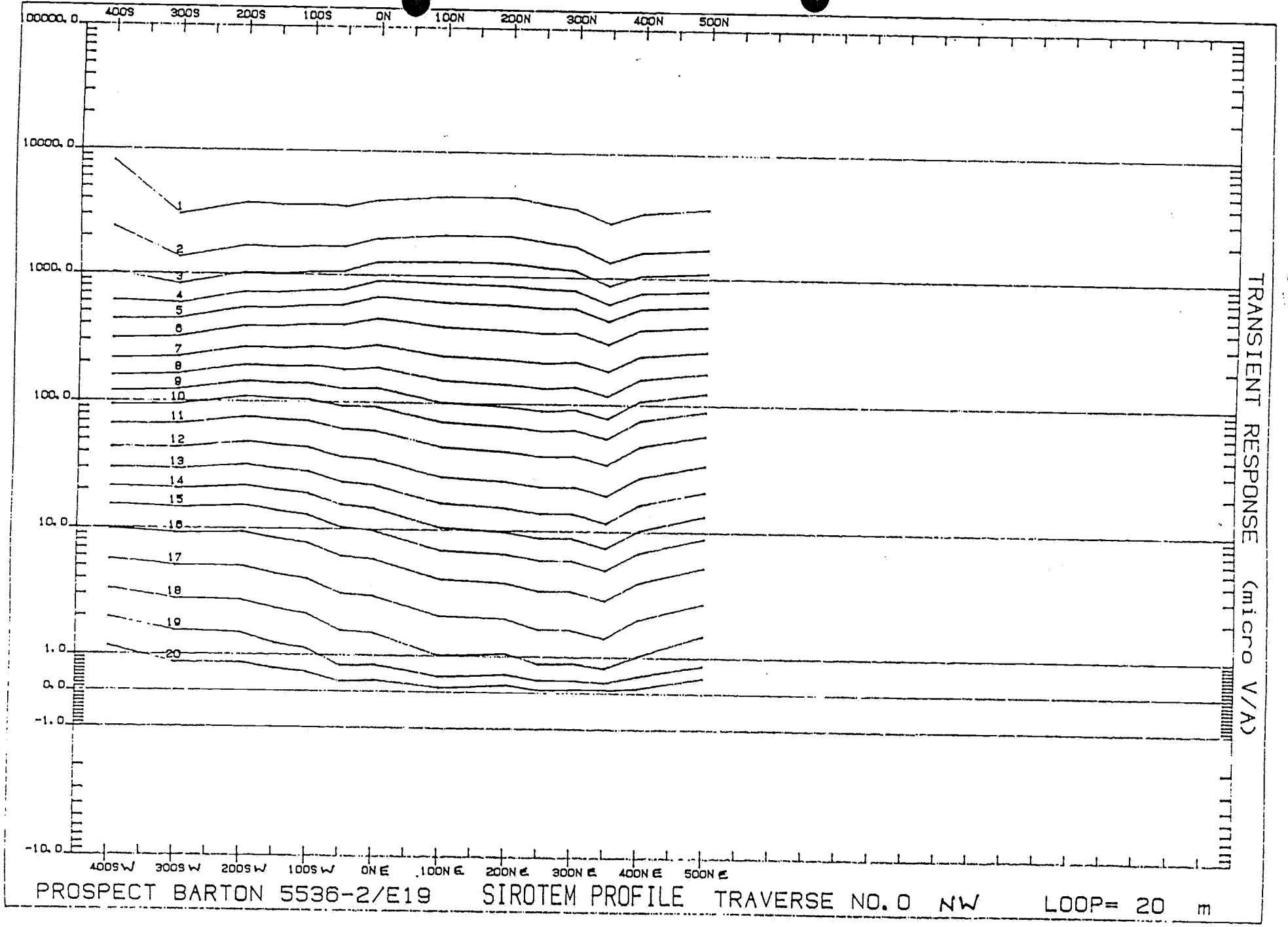


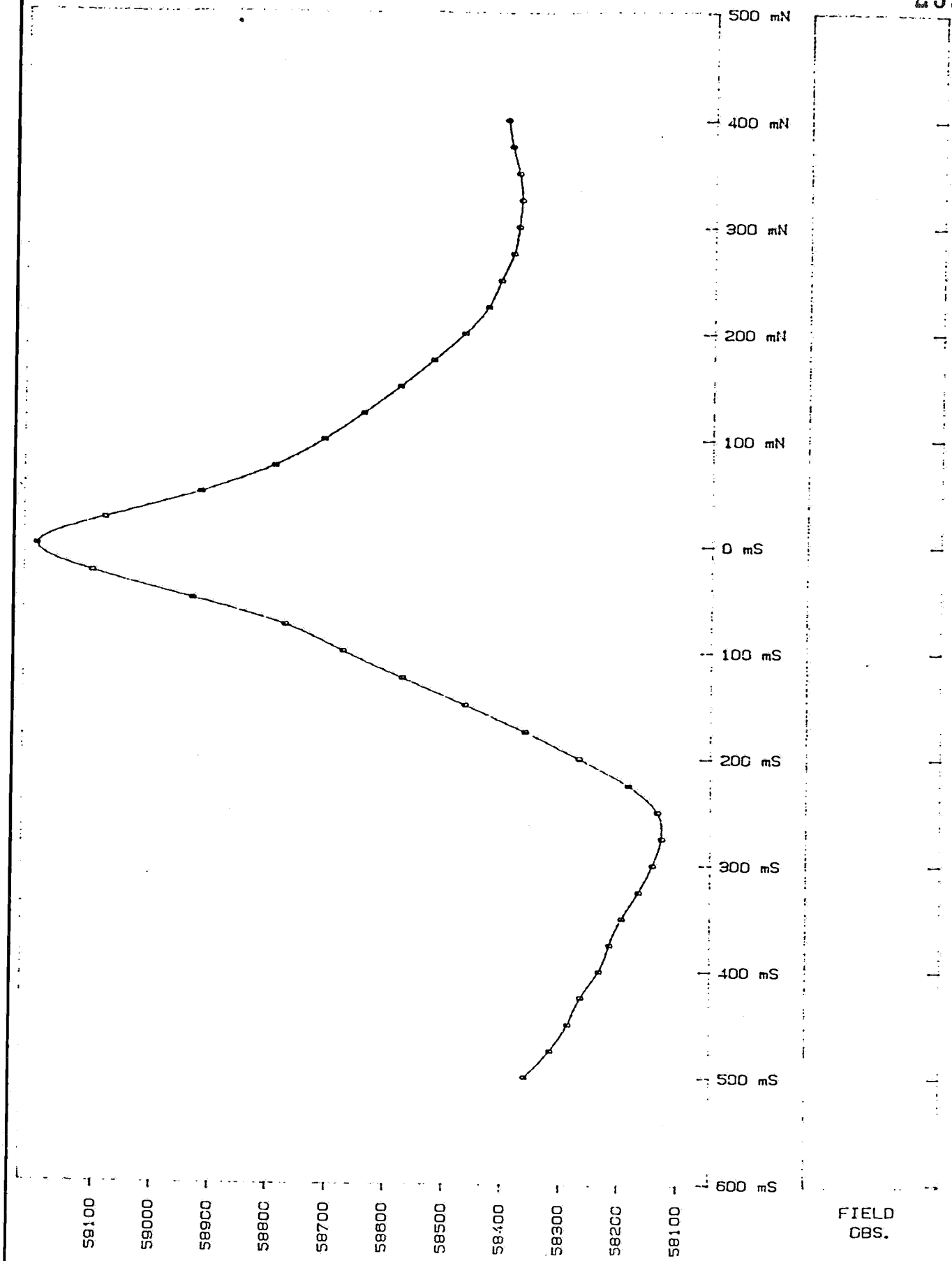
HORIZ. SCALE : 1: 4000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : N135E
PEAK MAG. READ. : 58211.2 nT
MAP SHEET : H53-9
AMG OF ON/OE : 164N660E
LINE & FID. NO. : 1190. ON/6595
SURVEY DATE : 09/01/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-2/E19
ANOM. 62E19
LINE ONE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


400S 300S 200S 100S 0N 100N 200N 300N 400N 500N
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
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4
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19
20
400S W 300S W 200S W 100S W 0N E 100N E 200N E 300N E 400N E 500N E
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-2/E19 SIROTEM PROFILE TRAVERSE NO. 0 NW LOOP= 20 m

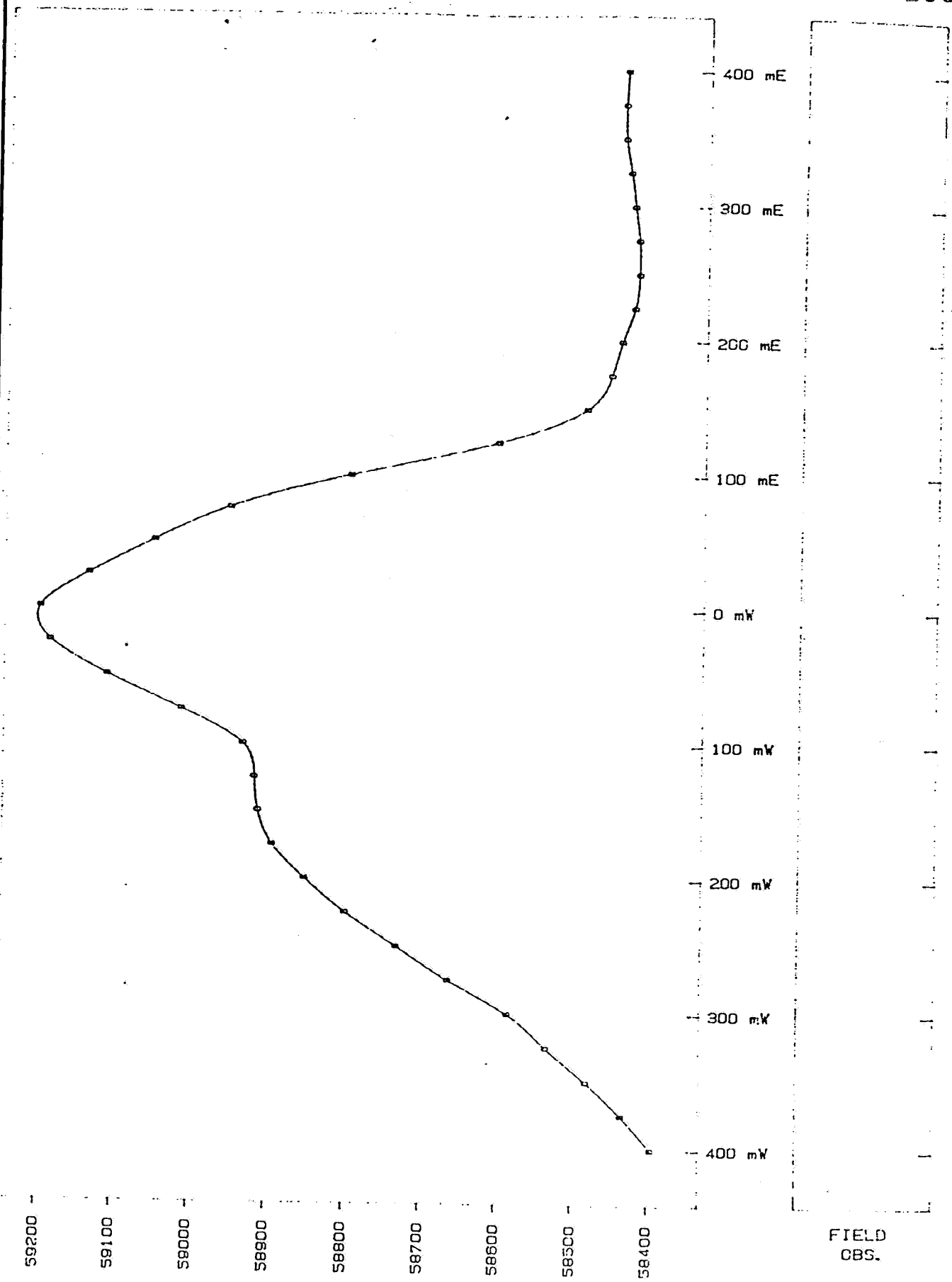


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 80 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 59212.5 nT
MAP SHEET : SH53-9
AMG OF ON/OE : N/A
LINE & FID. NO. : 1336.1S/708
SURVEY DATE : 22/10/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-3/W12
ANOM. 63W12
LINE 0W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

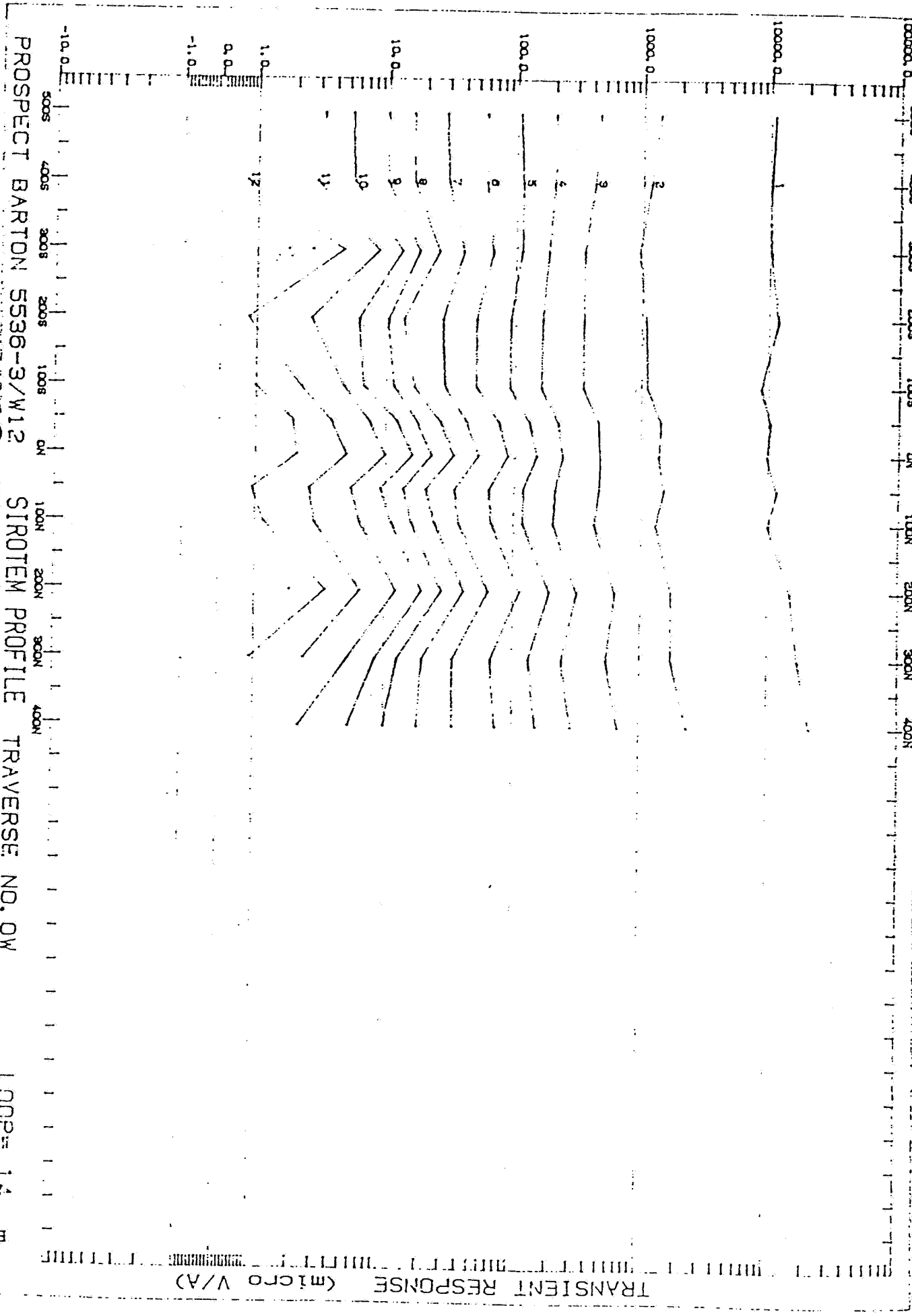


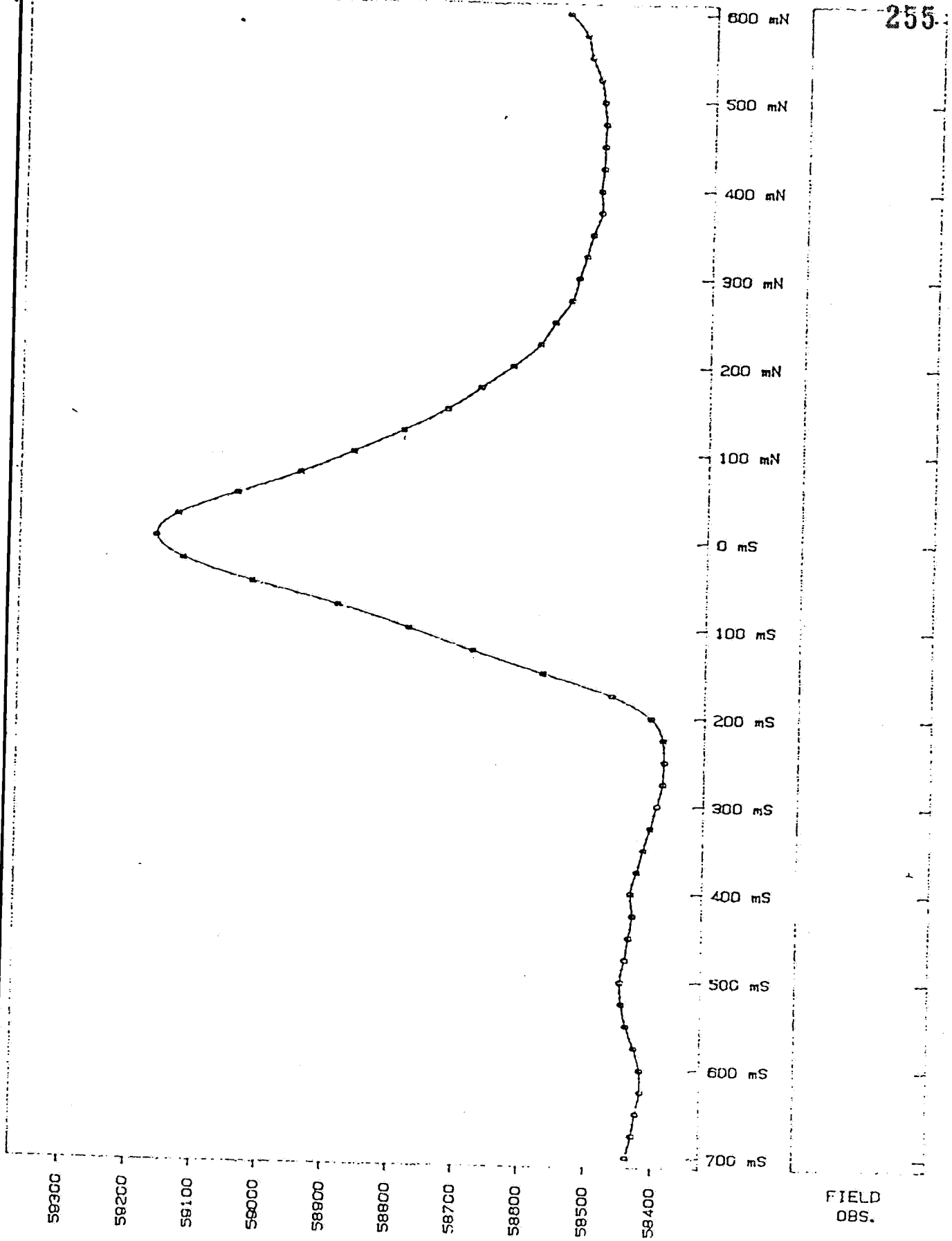
HORIZ. SCALE : 1: 4000
VERTICAL SCALE : 70 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 59212.5 nT
MAP SHEET : SH53-9
AMG OF ON/OE : N/A
LINE & FID. NO. : 1336.1S/708
SURVEY DATE : 22/10/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-3, W12
ANOM. 63W12
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEI	


PROSPECT BARTON 5536-3/W12
SIROTEM PROFILE TRAVERSE NO. OW
LOOP= 14 m
TRANSIENT RESPONSE (micro V/A)
-10.0
-1.0
0.0
1.0
10.0
100.0
1000.0
10000.0
00000.0
500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
1
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12

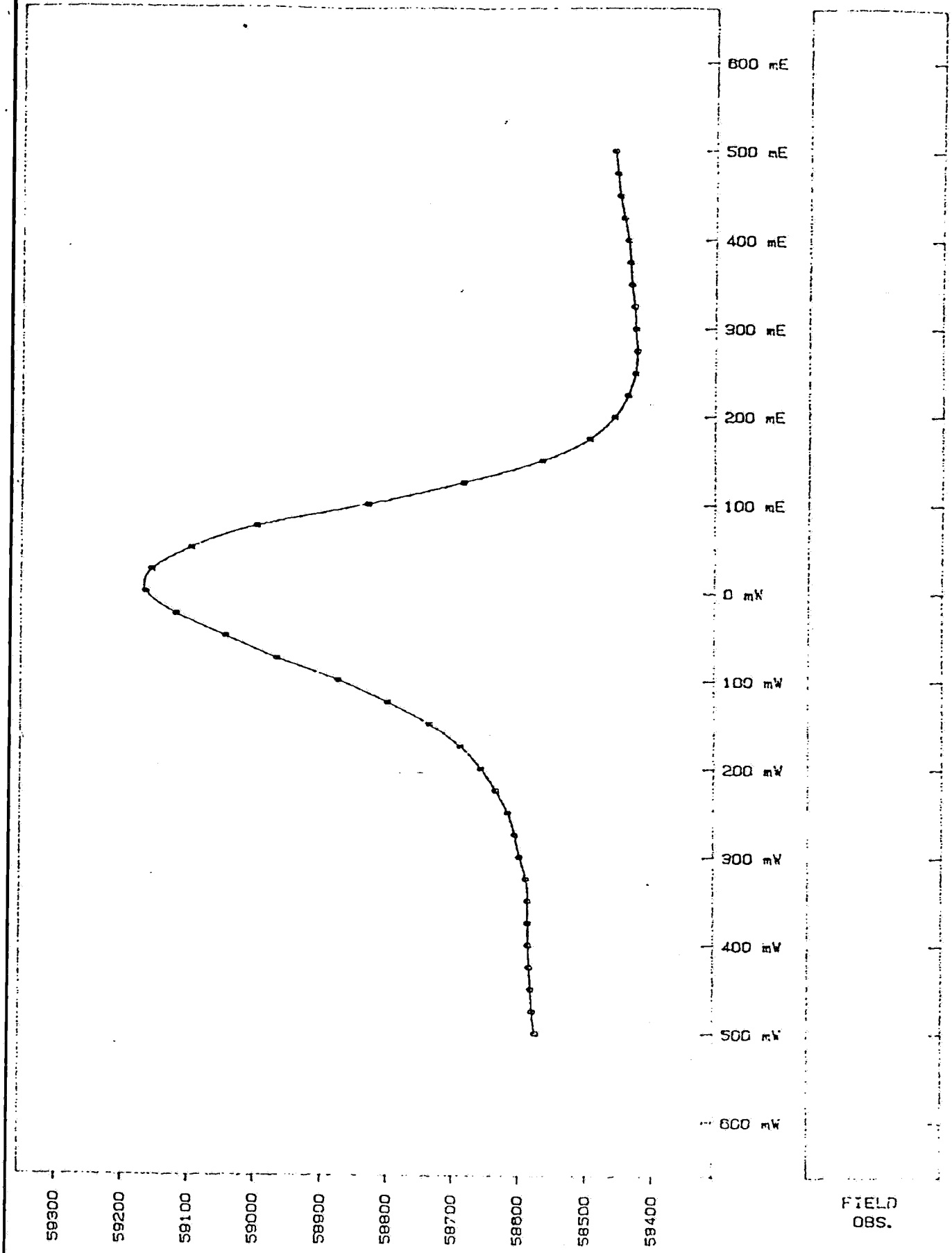


HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 80 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 59170.2 nT
MAP SHEET : H59-9
AMG OF ON/OE : 614E187N
LINE & FID. NO. : 1348.2S/6051
SURVEY DATE : 02/12/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON5536-3W13
ANOM. 63W13
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

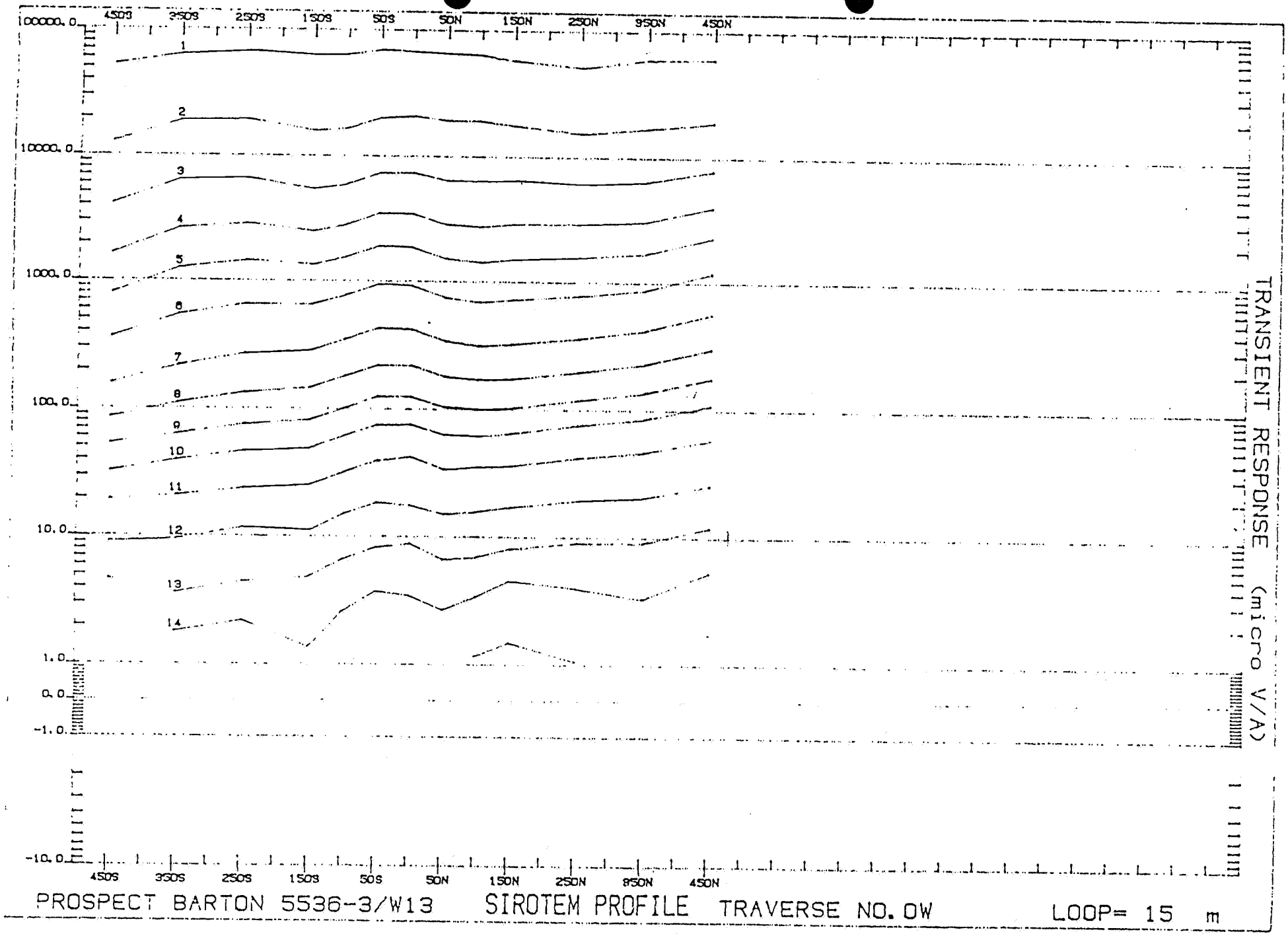


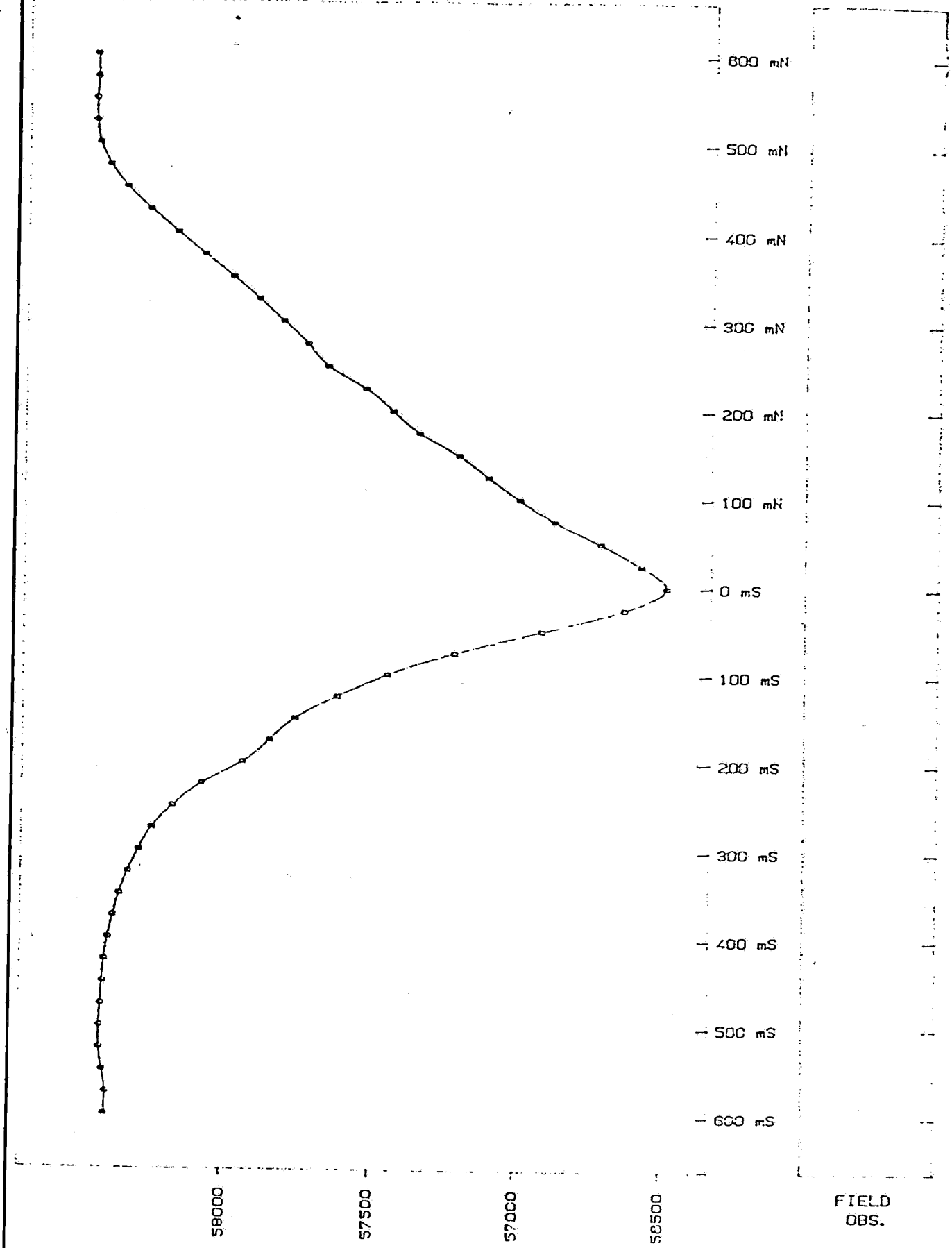
HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 80 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 59170.2 nT
MAP SHEET : HS3-9
AMG OF ON/OE : 614E187N
LINE & FID. NO. : 1346.2S/6051
SURVEY DATE : 02/12/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON5536-3W13
ANOM. 63W13
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
450S
350S
250S
150S
50S
50N
150N
250N
350N
450N
1
2
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4
5
6
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TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-3/W13 SIROTEM PROFILE TRAVERSE NO. OW
LOOP= 15

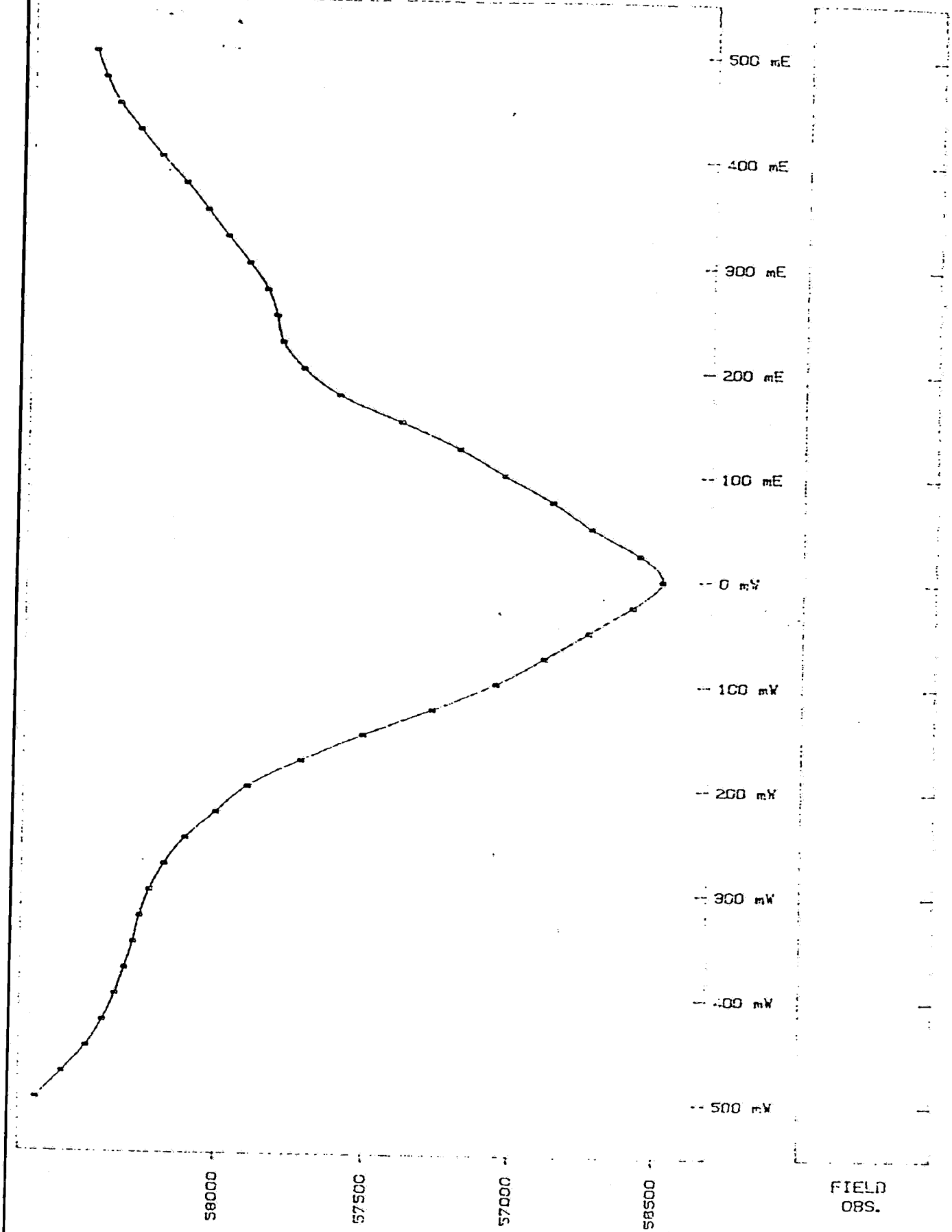


HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 180 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58465.4 nT
MAP SHEET : H53-9
AMG OF ON/OE : 188N824E
LINE & FID. NO. : 1321.OS/656
SURVEY DATE : 29/11/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-3/E02
ANOM. 353E2
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



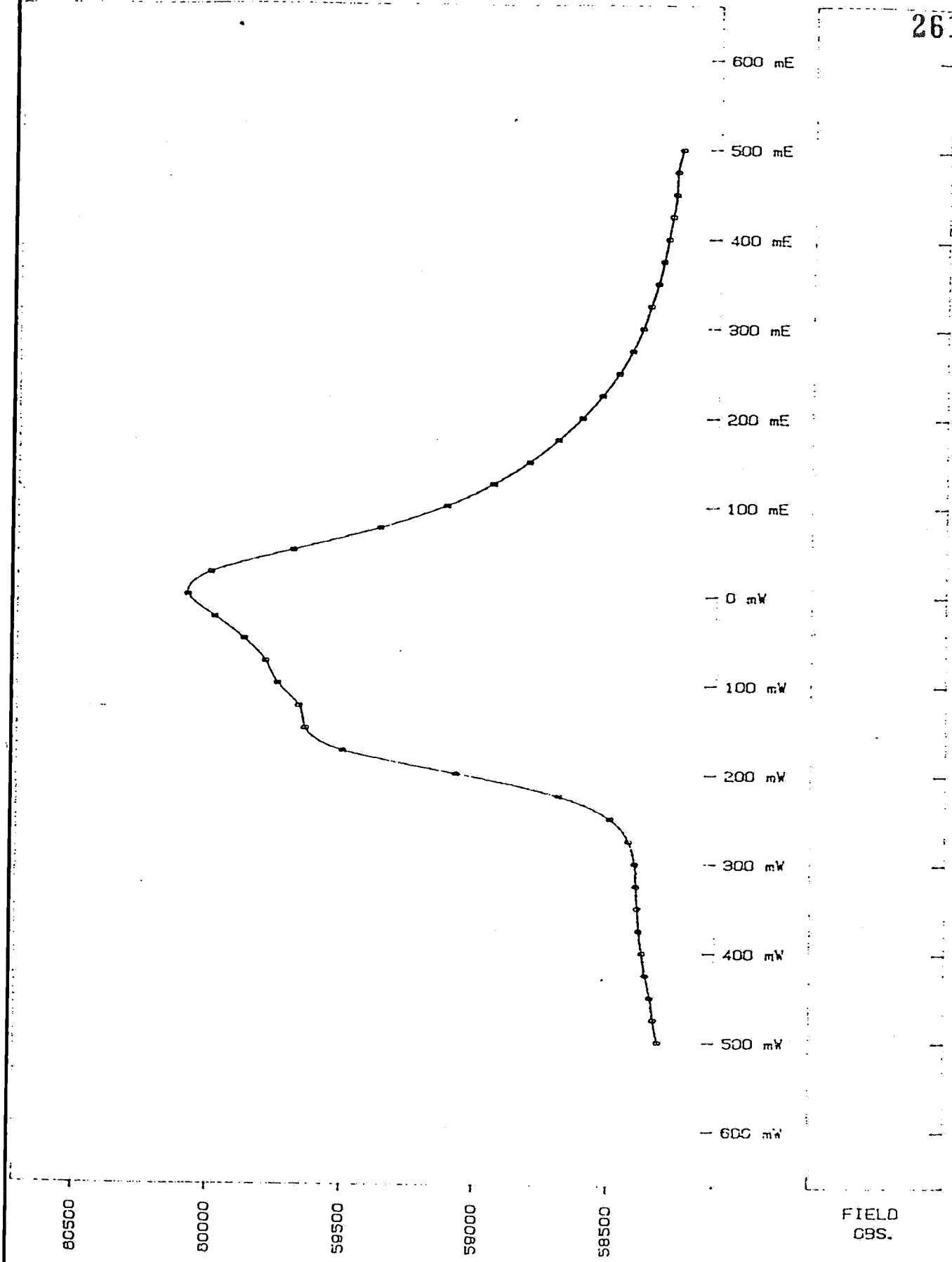
HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 180 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58617.8 nT
MAP SHEET : H53-9
ANG OF ON/OE : 188N624E
LINE & FID. NO. : 1321.0S/656
SURVEY DATE : 29/11/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-3/E02
ANOM. 363E2
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
600S
500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
500N
600N
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON5536-3/EC2
SIROTEM PROFILE TRAVERSE NO. OW
LOOP= 14 m

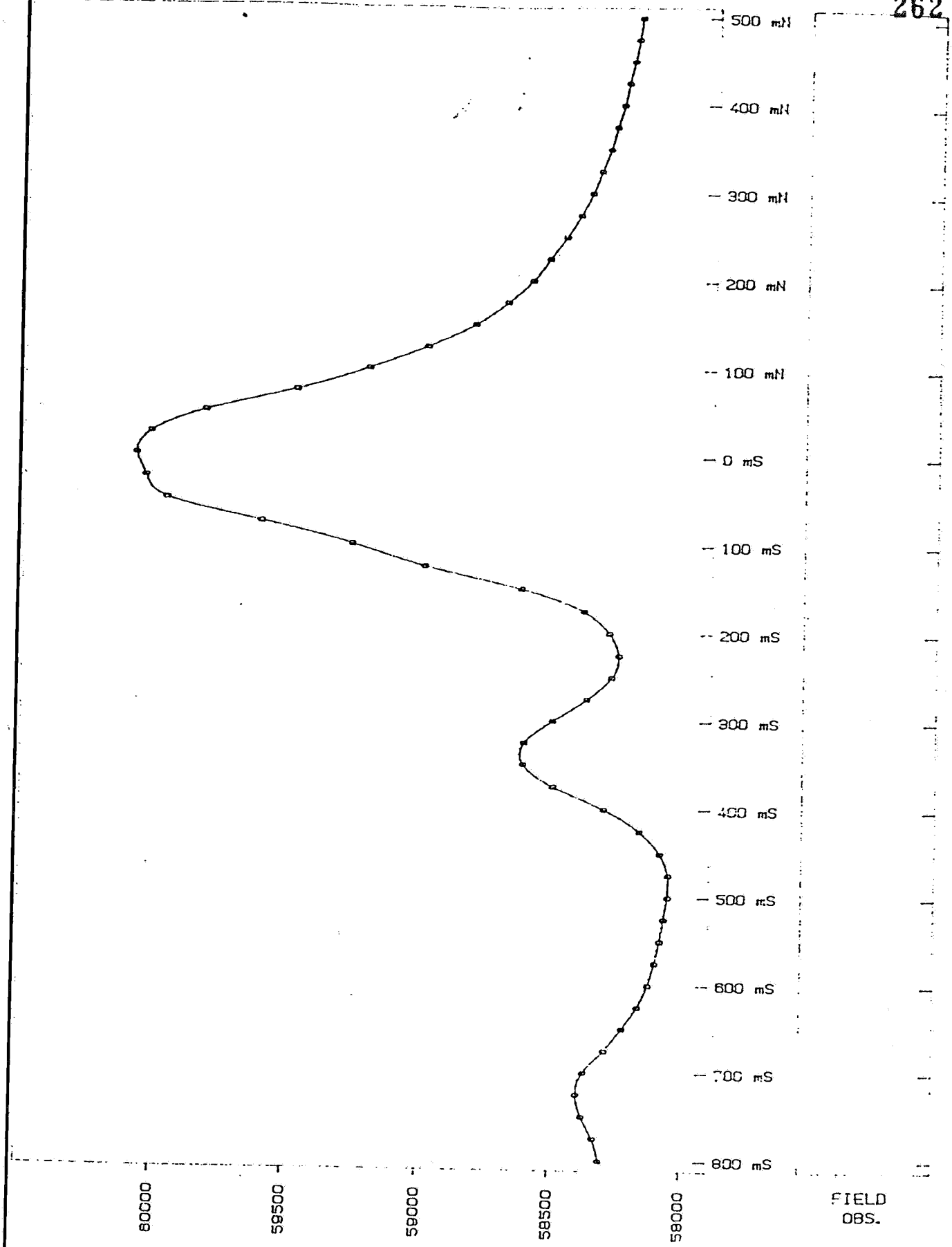


HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 200 nT/CM
LINE AZIMUTH : N45E
PEAK MAG. READ. : 60087.3 nT
MAP SHEET : H53-9
AMG OF ON/OE : 614E194N
LINE & FID. NO. : 1359.1N/1140
SURVEY DATE : 02/12/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 64W14
LINE ON
SC36-4 : 014

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL

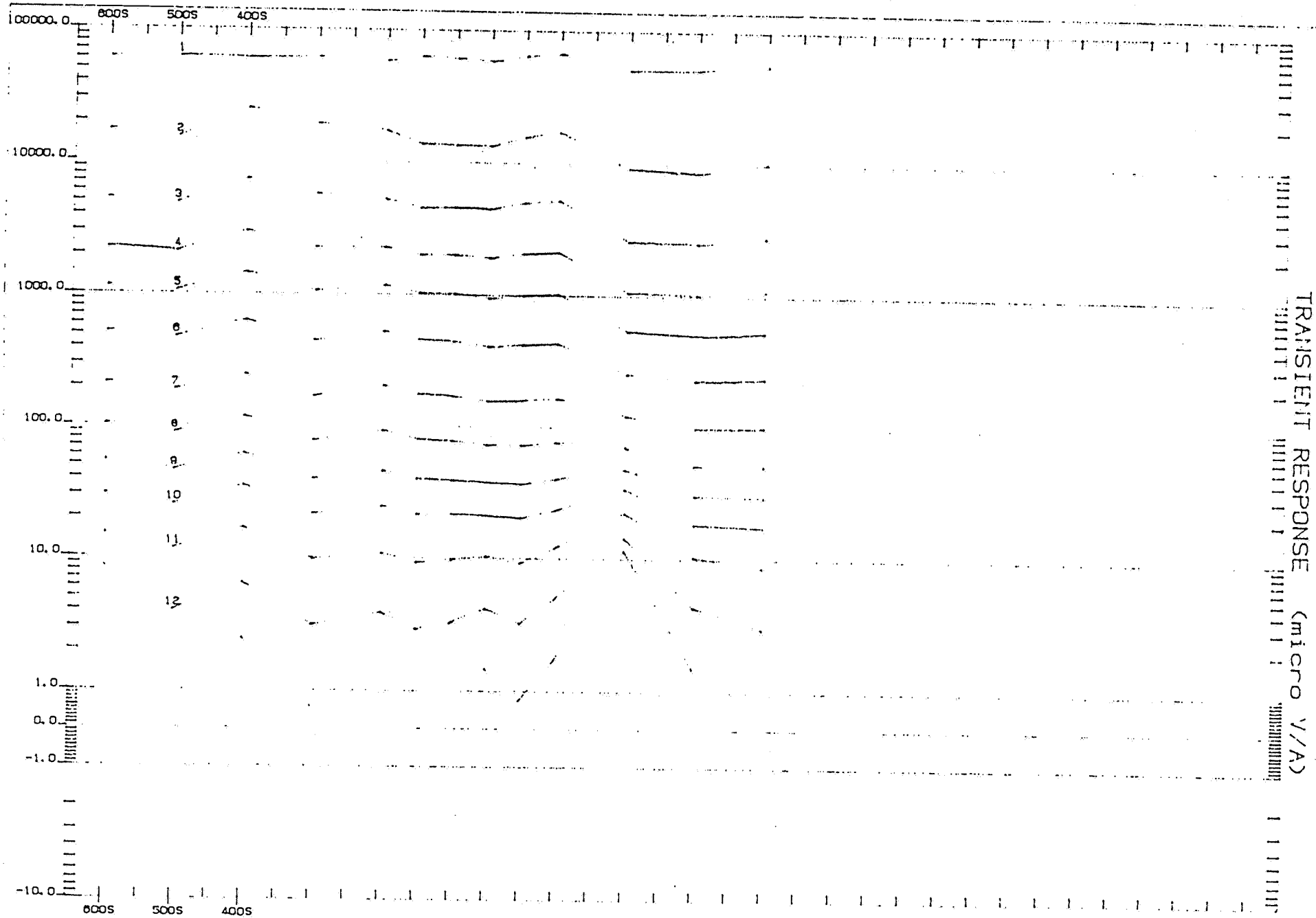


HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 200 nT/CM
LINE AZIMUTH : S45E
PEAK MAG. READ. : 60087.3 nT
MAP SHEET : H53-9
AMG OF ON/OE : 614E194N
LINE & FID. NO. : 1359.1N/1140
SURVEY DATE : 02/12/86

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON
ANOM. 64W14
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
600S
500S
400S
2
3
4
5
6
7
8
9
10
11
12
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON5536-4/W14
SIROTEM PROFILE TRAVERSE NO. ONE
LOOP= 13 m

APPENDIX V

16th Quarter to 2 June, 1987

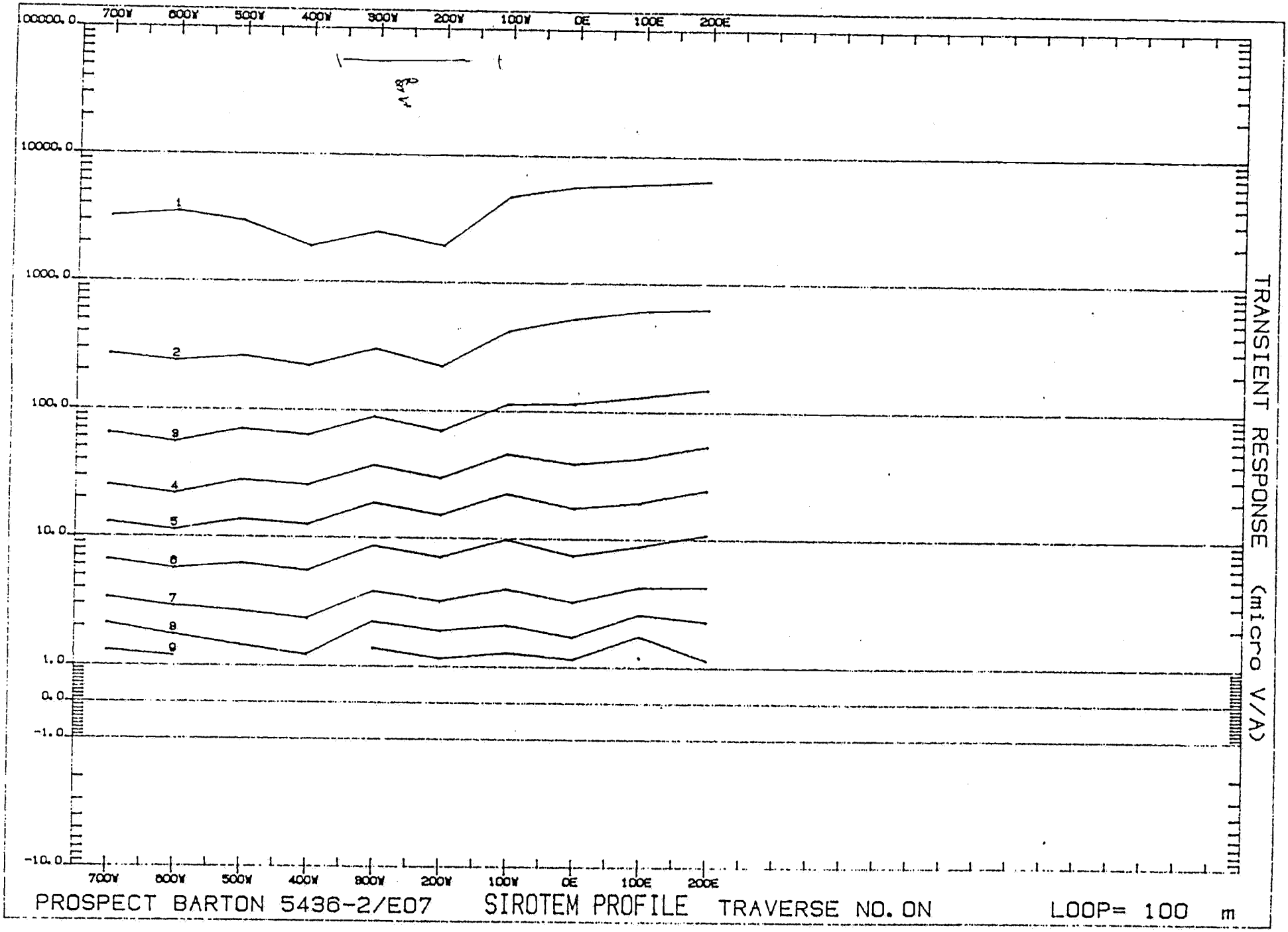
EL 1151 Anomalies - ground geophysical data

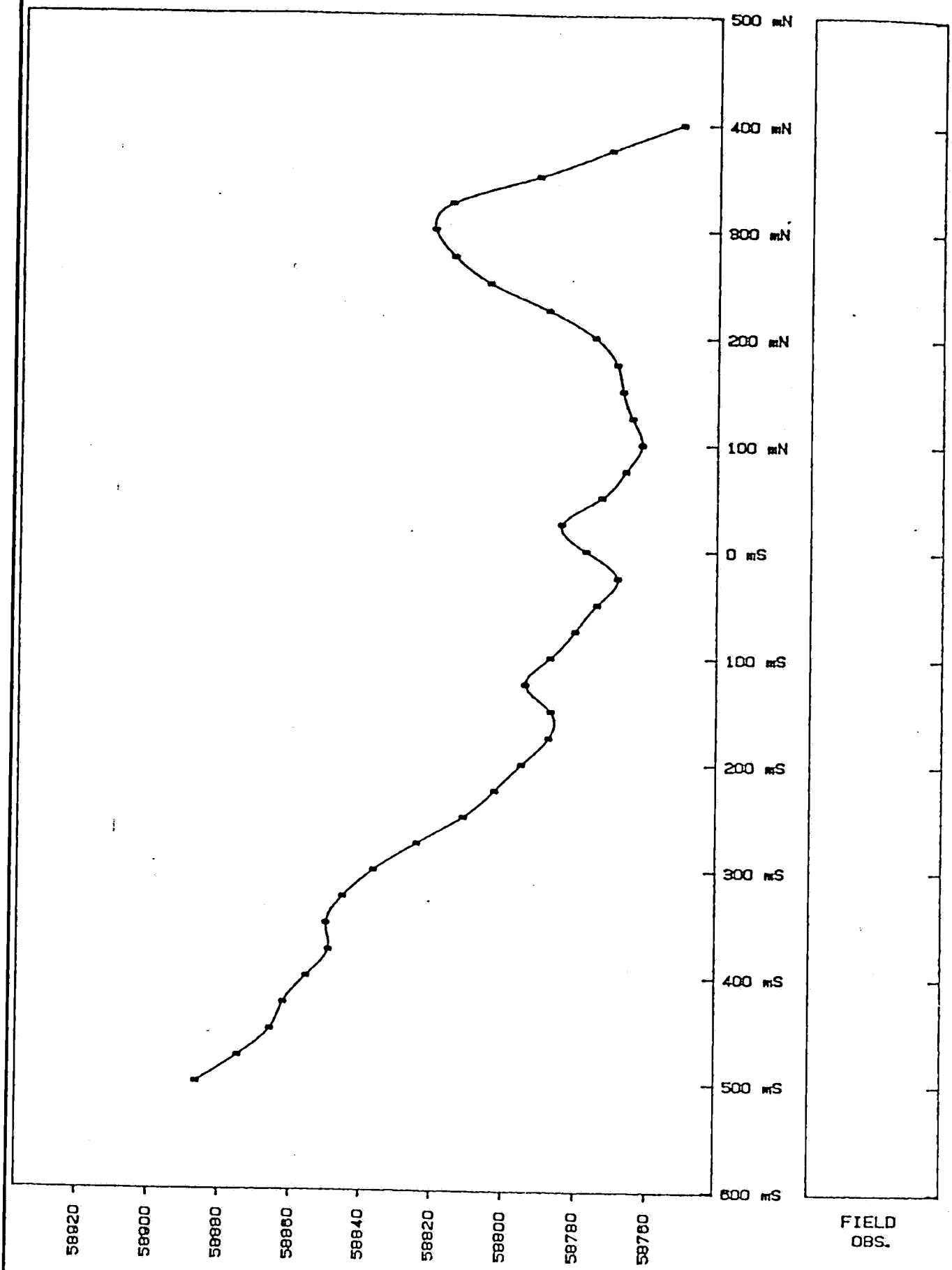
16 Th 1/4 to 2nd June '87

EL 1151

ANOMALIES

5436-2/E07
5436-2/E27
5536-1/W05
5536-1/W20
5536-1/E08
5536-1/E07
5536-1/E09
5536-1/E10
5536-4/W15
5536-4/W16


700W
600W
500W
400W
300W
200W
100W
0E
100E
200E
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
3
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7
8
9
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5436-2/E07 SIROTEM PROFILE TRAVERSE NO. ON
LOOP= 100 m

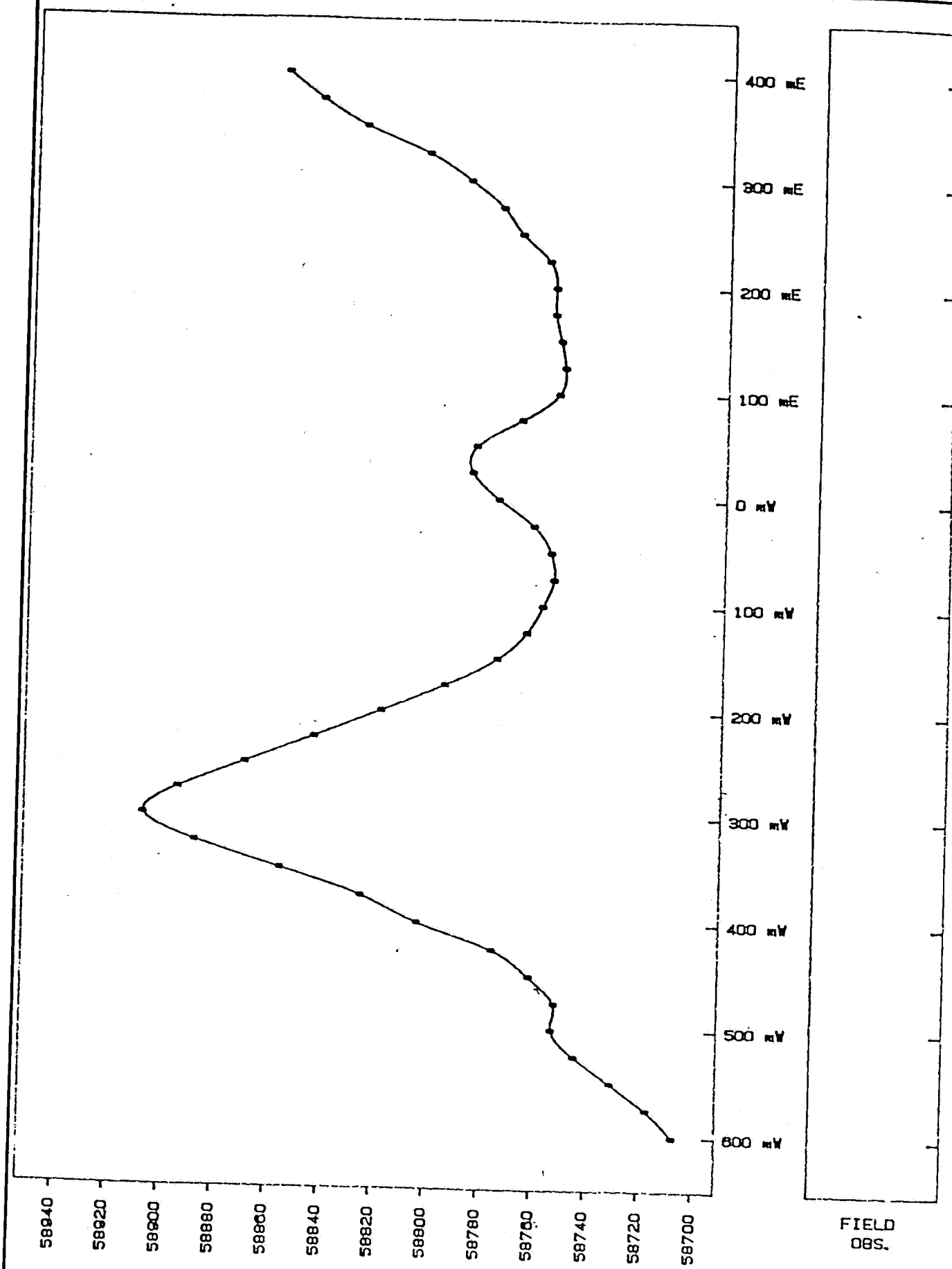


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 15 nT/CM
LINE AZIMUTH : 0
PEAK MAG. READ. : 58886.5 nT
MAP SHEET : H53-9
AMG OF ON/OE : 6591N3075E
LINE & FID. NO. : 1360.ON 7347
SURVEY DATE : 03/11/83

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5436-2
ANOM. E07
LINE OW

Compiled	
Drawn	
Date	
Scale	
Revised	

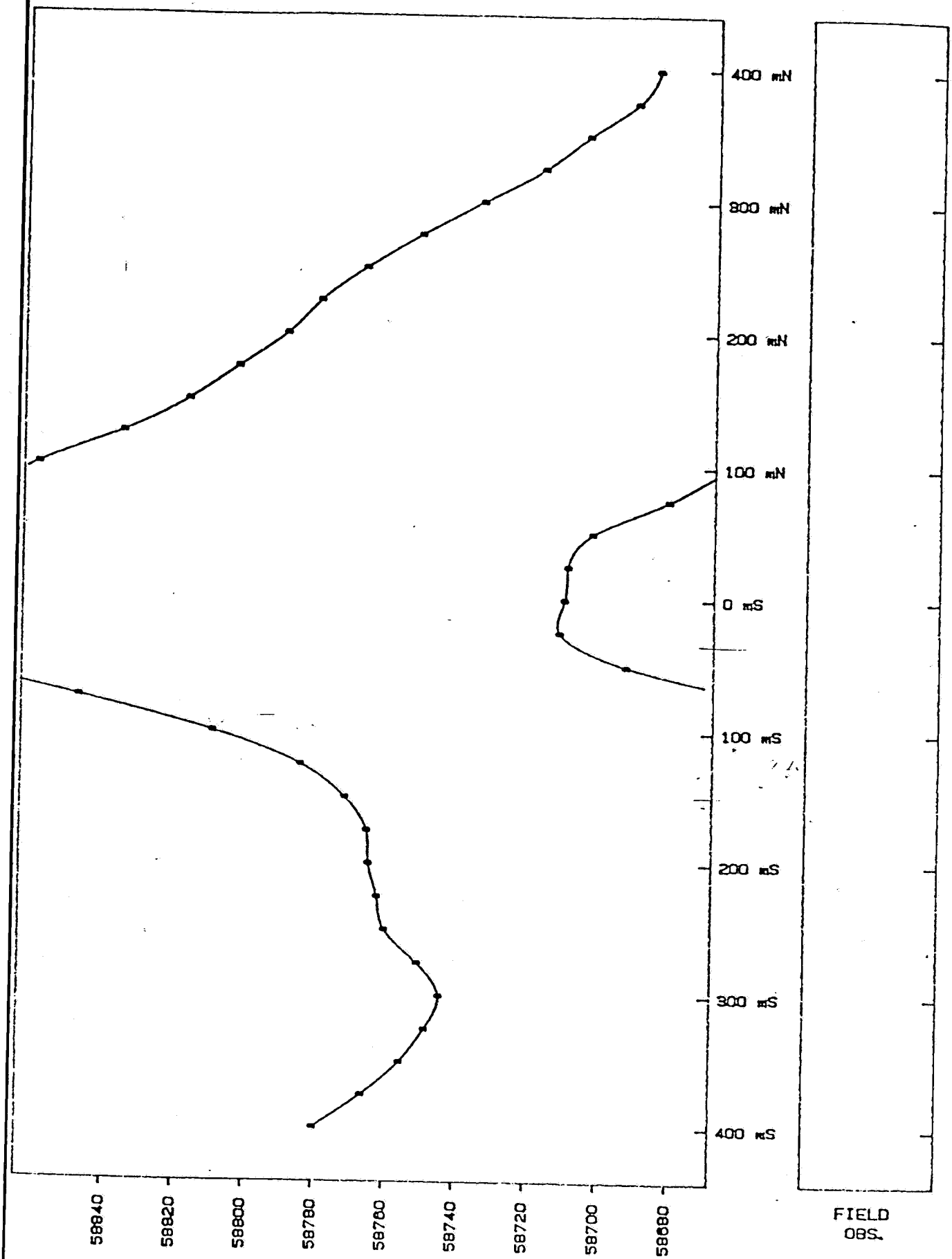


HORIZ. SCALE : 1" = 5000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : 90
PEAK MAG. READ. : 58910.9 nT
MAP SHEET : HS3-9
AMG OF ON/OE : 8591N307SE
LINE & FID. NO. : 1980. ON 7347
SURVEY DATE : 03/11/83

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5436-2
ANOM. E07
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	

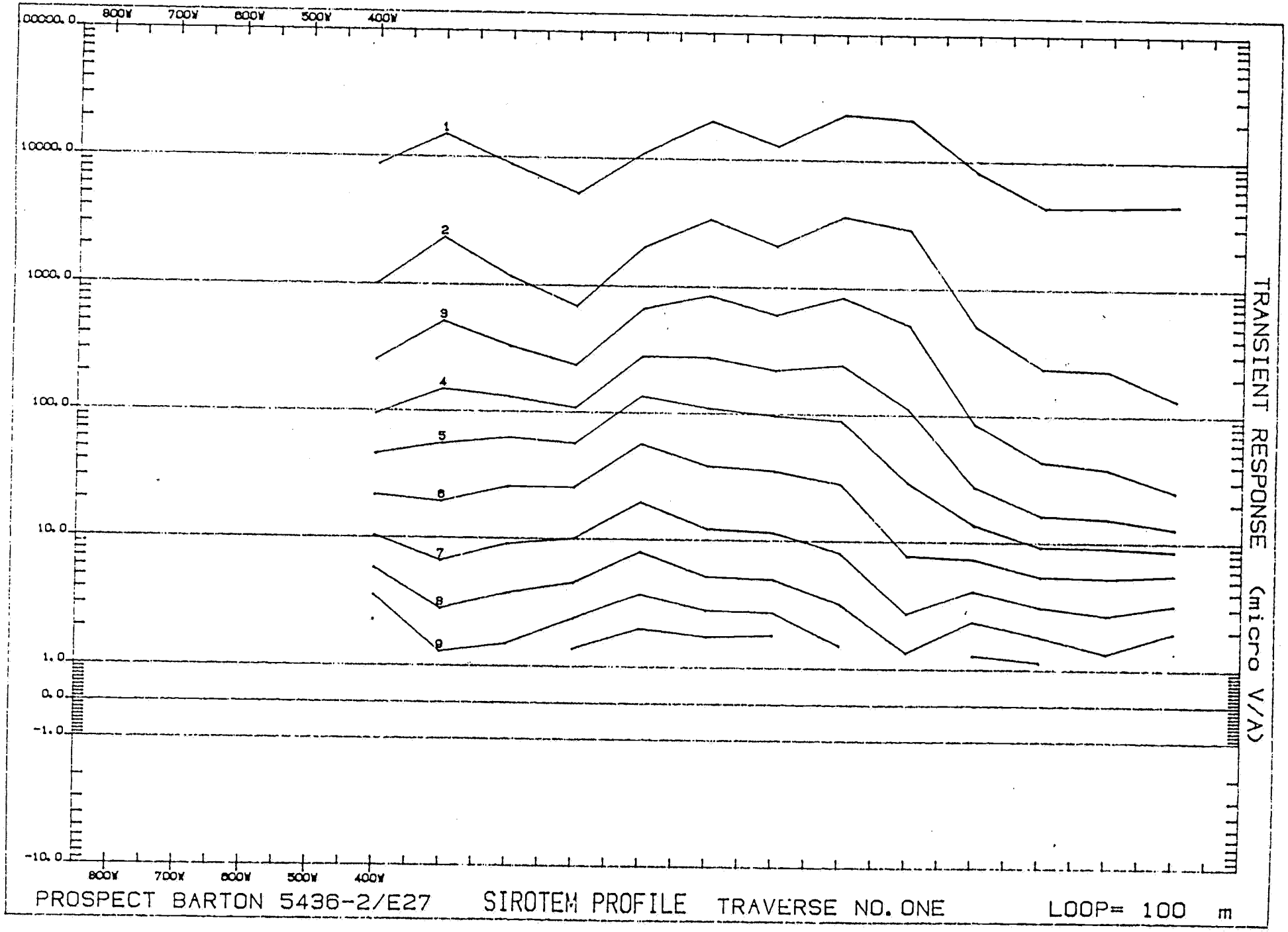


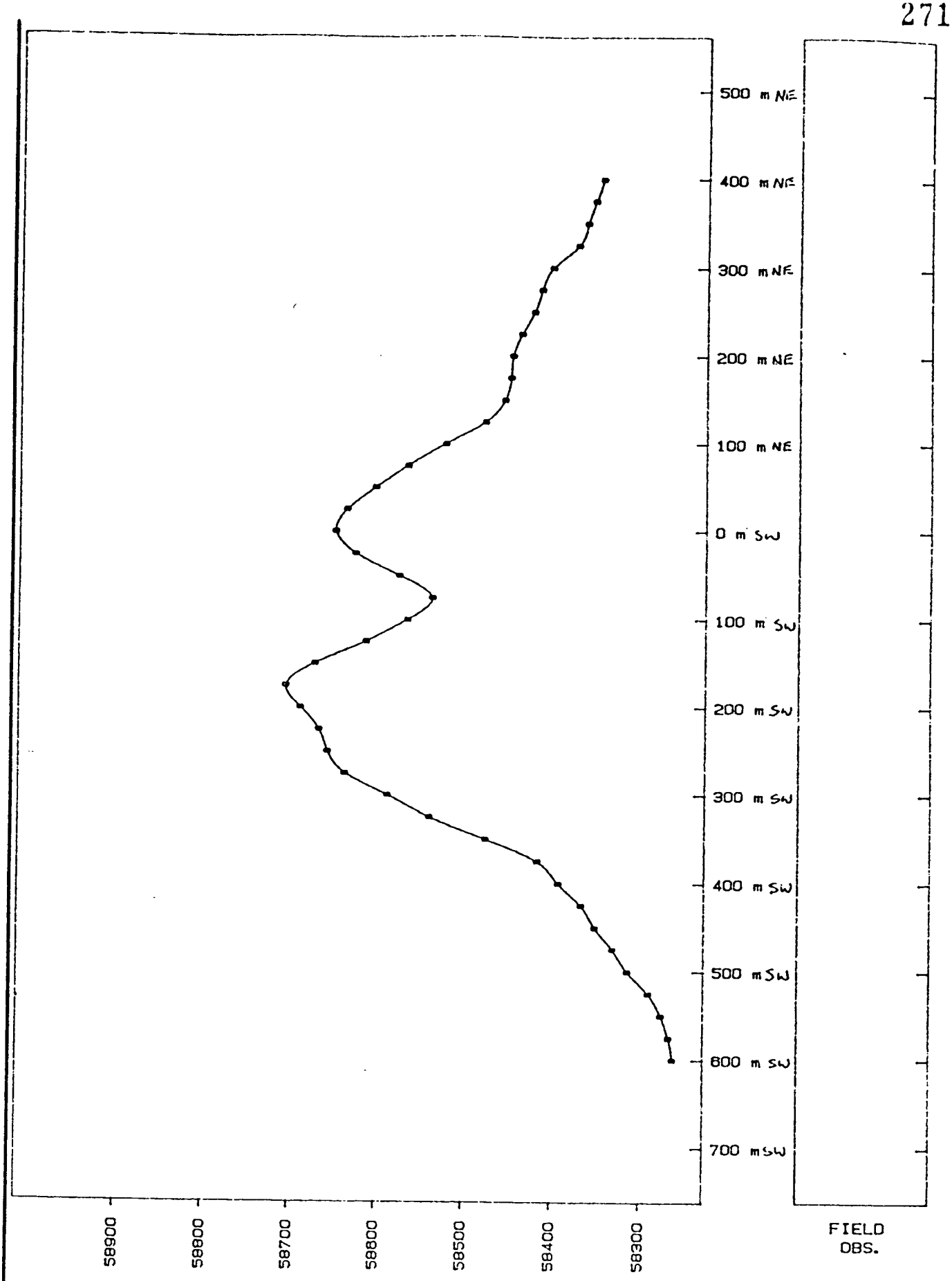
HORIZ. SCALE : 1" 4000
VERTICAL SCALE : 15 nT/CM
LINE AZIMUTH : 0
PEAK MAG. READ. : 58907.8 nT
MAP SHEET : H53-9
AMG OF ON/OE : 6591N3075
LINE & FID. NO. : 1360. ON 7347
SURVEY DATE : 08/11/83

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5436-2
ANOM. E07
LINE 300W

Compiled	
Drawn	
Date	
Scale	
Revised	


800W
700W
600W
500W
400W
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
3
4
5
6
7
8
9
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5436-2/E27 SIROTEM PROFILE TRAVERSE NO. ONE LOOP= 100 m

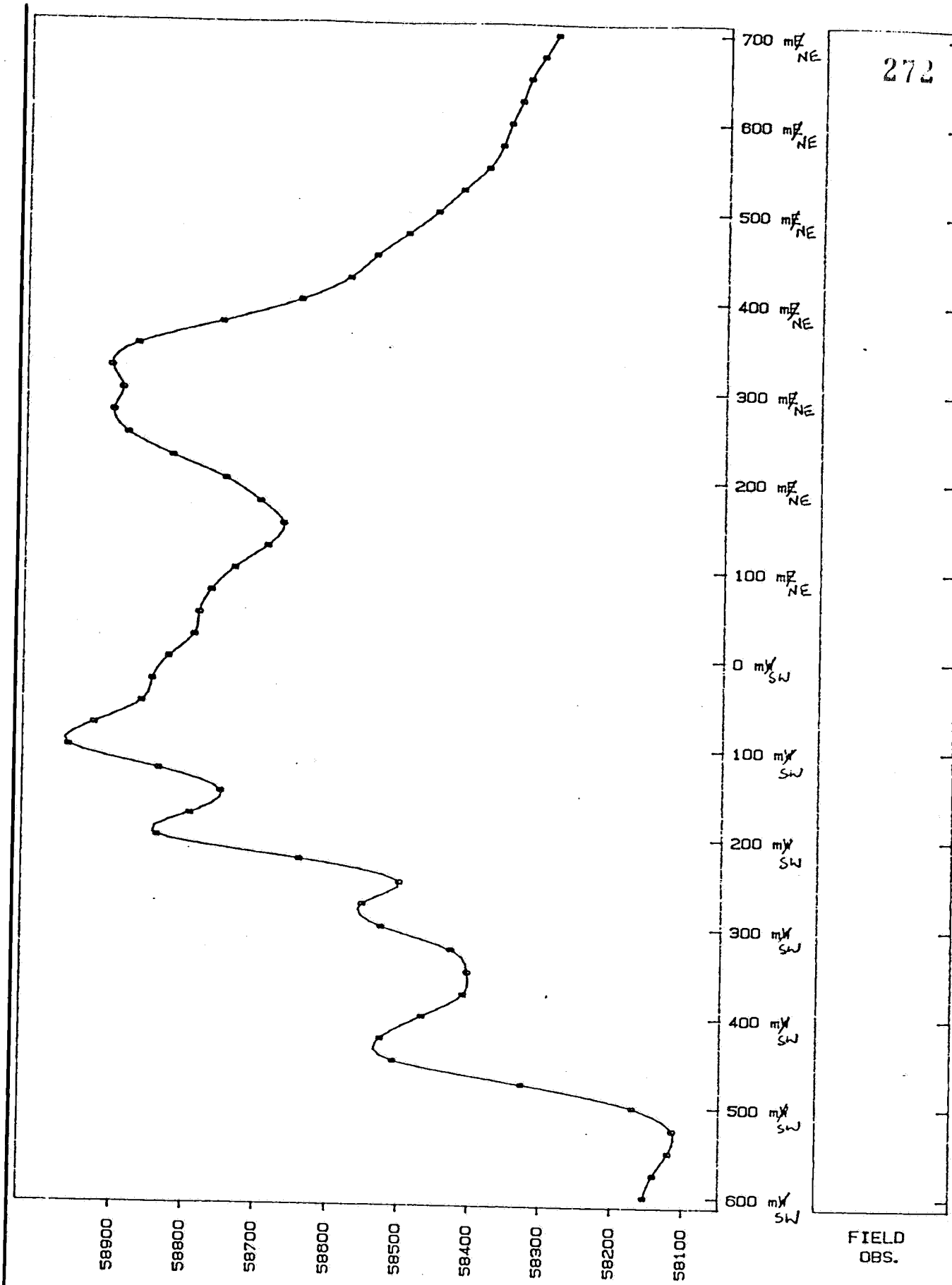


HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 60 nT/CM
LINE AZIMUTH : N45E
PEAK MAG. READ. : 58706.2 nT
MAP SHEET : H53-9
AMG OF ON/OE : 607E191N
LINE & FID. NO. : 1369.1N/2638
SURVEY DATE : 19/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5436-2/E27
ANOM. 62E27
LINE 0NW

Compiled	
Drawn	
Date	
Scale	
Revised	

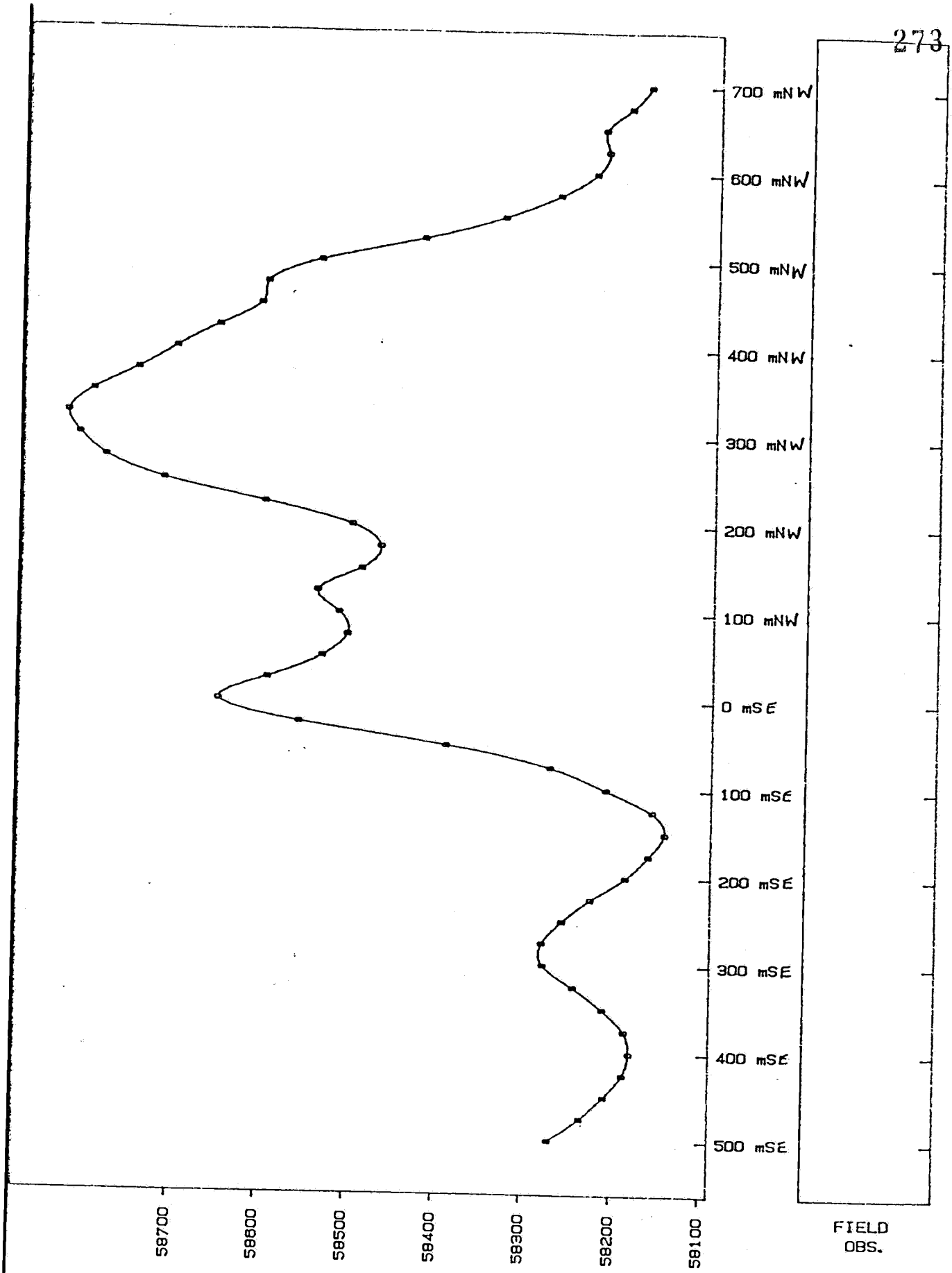


HORIZ. SCALE	:	1: 6000
VERTICAL SCALE	:	75 nT/CM
LINE AZIMUTH	:	N45E
PEAK MAG. READ.	:	58964.9 nT
MAP SHEET	:	H53-9
AMG OF ON/OE	:	607E191N
LINE & FID. NO.	:	1369.1N/2638
SURVEY DATE	:	19/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5436-2/E27
ANOM. 62E27
LINE 325NW

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL

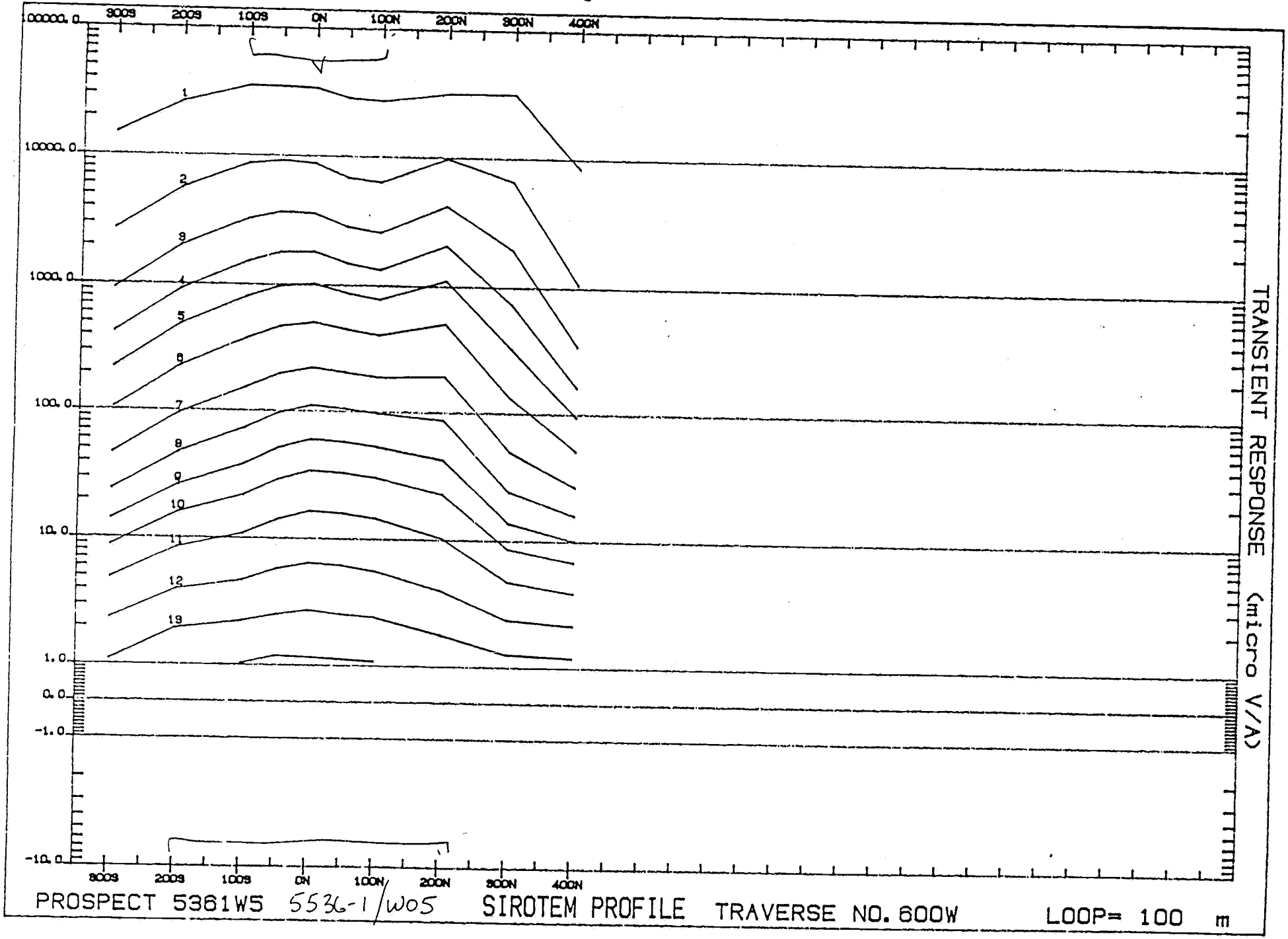


HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 60 nT/CM
LINE AZIMUTH : N45W
PEAK MAG. READ. : 58825.6 nT
MAP SHEET : H53-9
AMG OF ON/OE : 607E191N
LINE & FID. NO. : 1369.1N/2638
SURVEY DATE : 19/03/87

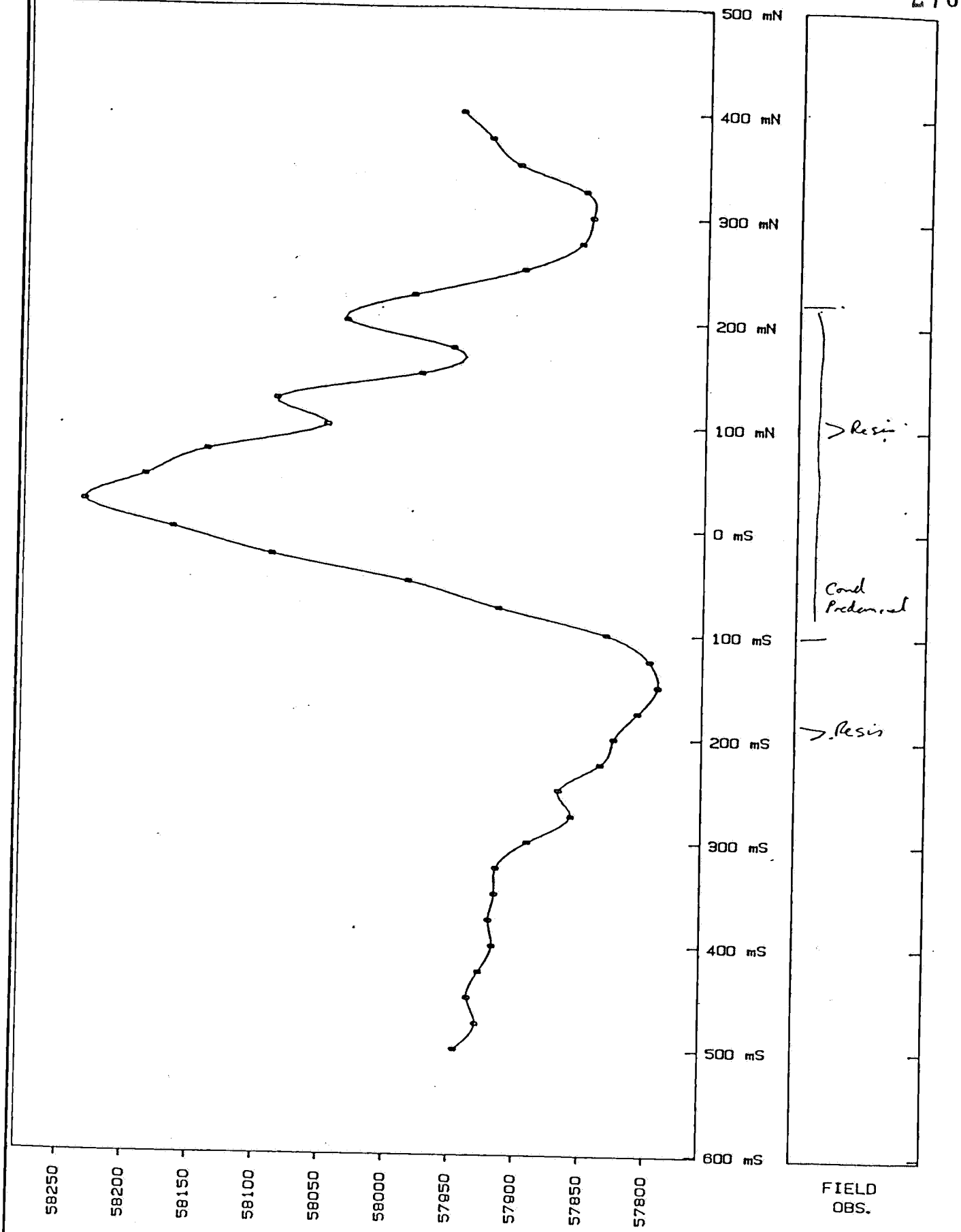
STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5436-2/E27
ANOM. 62E27
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


300S
200S
100S
0N
100N
200N
300N
400N
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
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6
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8
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10
11
12
13
TRANSIENT RESPONSE (micro V/A)
PROSPECT 5361W5 5536-1/W05 SIROTEM PROFILE TRAVERSE NO. 600W LOOP= 100 m

5536-1/W05

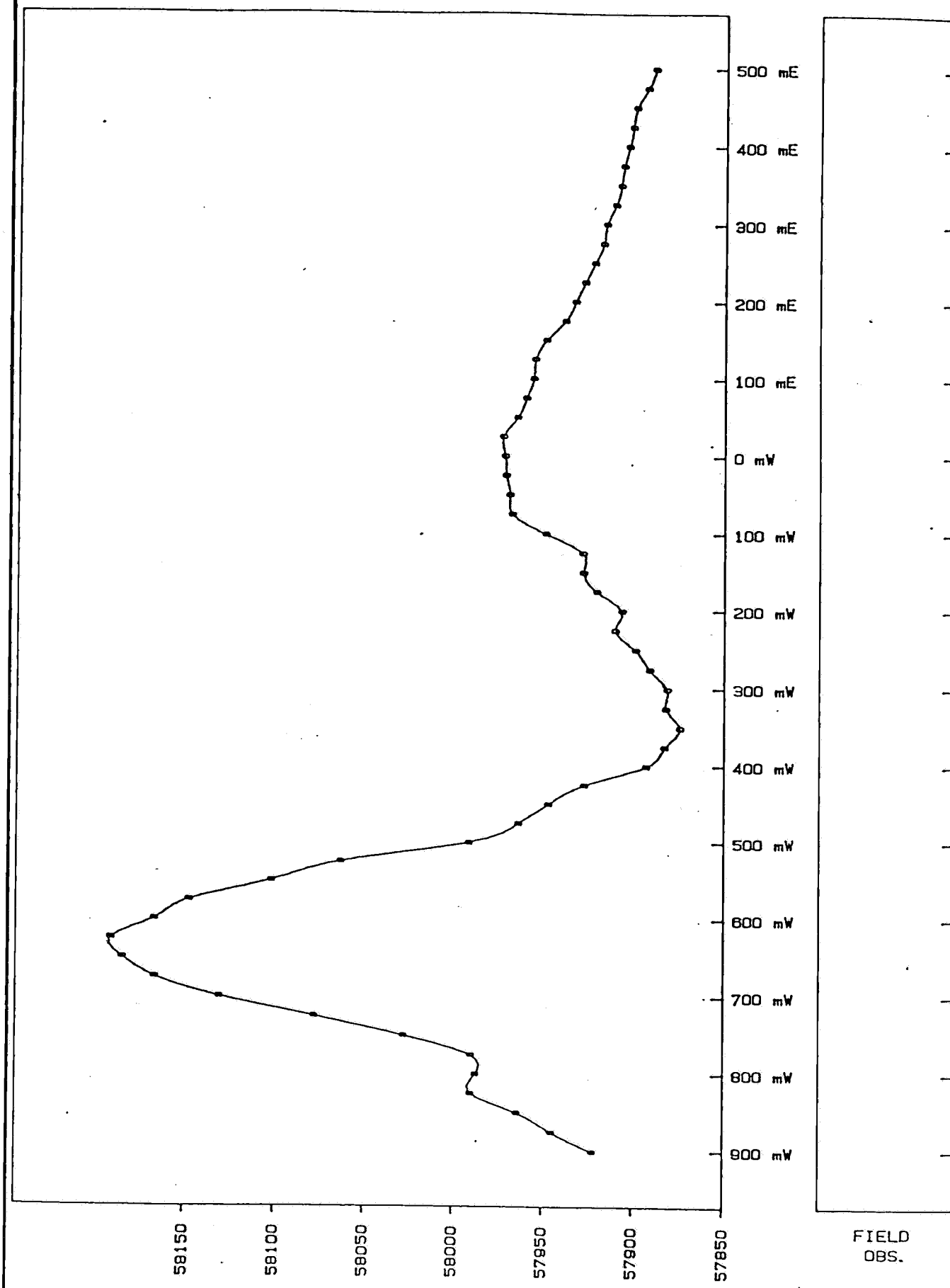


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 40 nT/CM
LINE AZIMUTH : 0
PEAK MAG. READ. : 58234.7 nT
MAP SHEET : H53-9
AMG OF ON/OE : 6614N3362E
LINE & FID. NO. : 1305. ON 1376
SURVEY DATE : 16/01/84

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1
ANOM. W05
LINE 600W

Compiled	FWA
Drawn	
Date	7/84
Scale	1:5000
Revised	

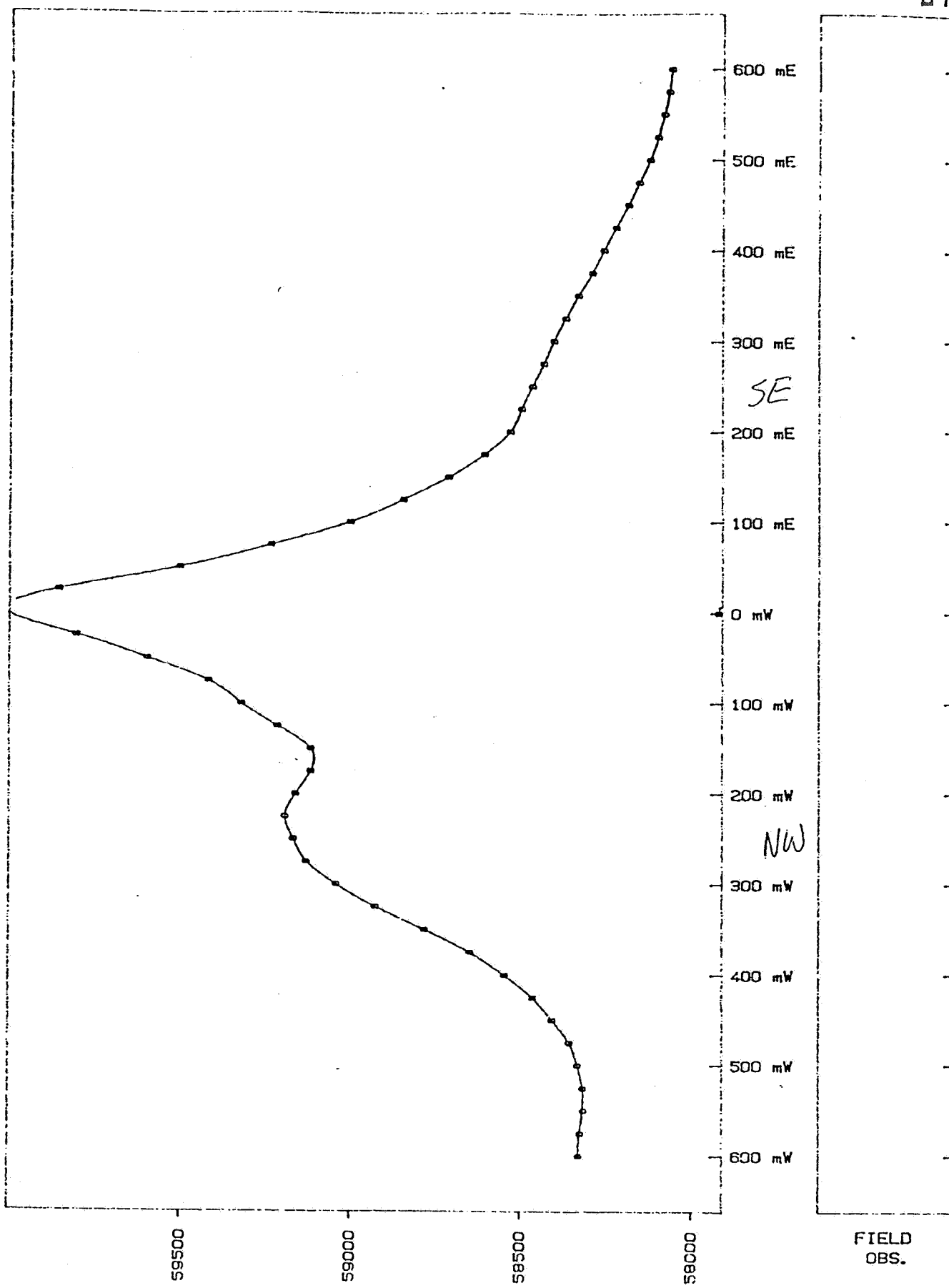


HORIZ. SCALE : 1: 7000
VERTICAL SCALE : 30 nT/CM
LINE AZIMUTH : 90
PEAK MAG. READ. : 58190.1 nT
MAP SHEET : H53-9
AMG OF ON/OE : 6614N3362E
LINE & FID. NO. : 1305. ON 1376
SURVEY DATE : 16/01/84

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1
ANOM. W05
LINE ON

Compiled	FWA
Drawn	
Date	7184
Scale	1:7000
Revised	

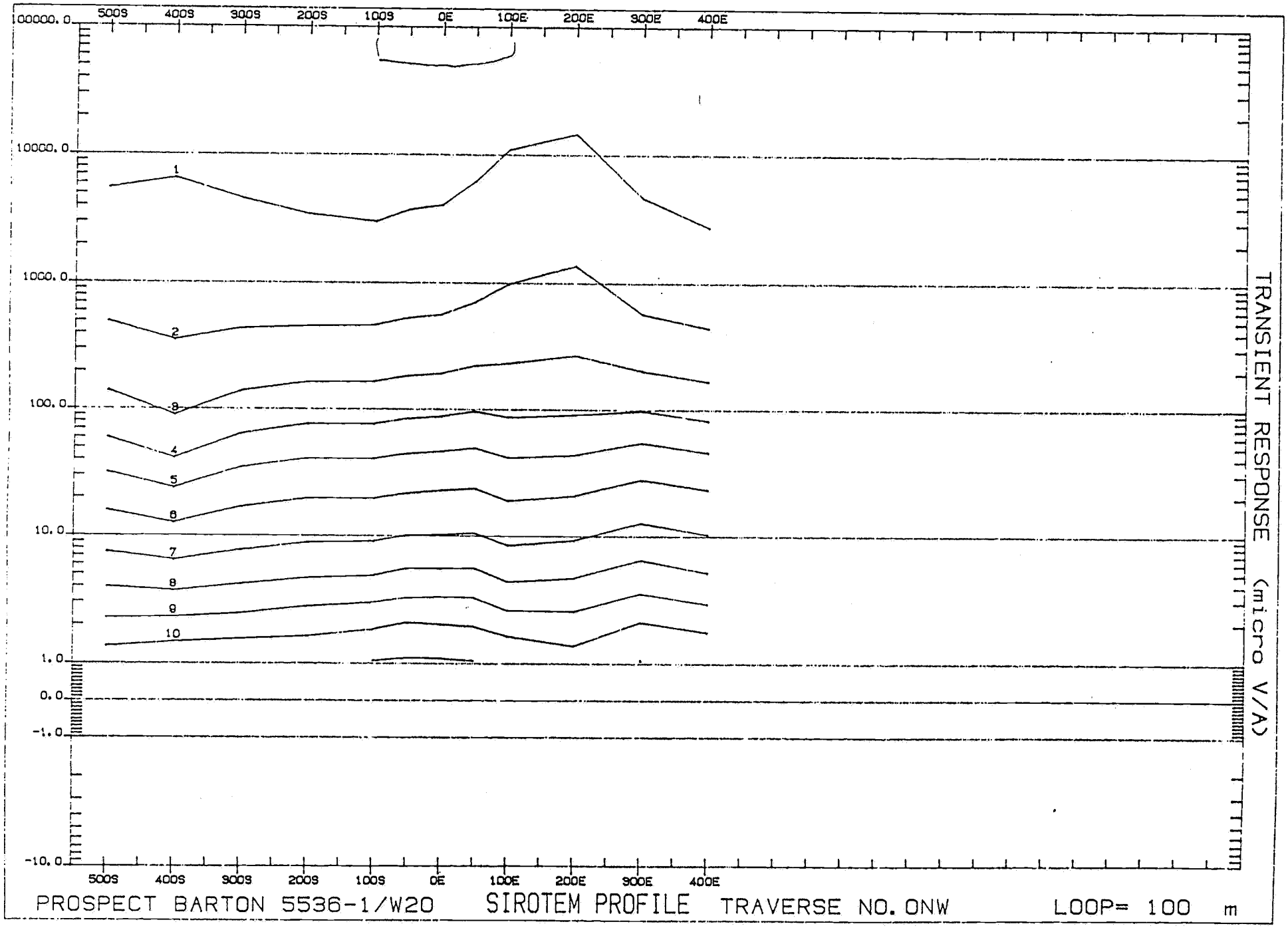


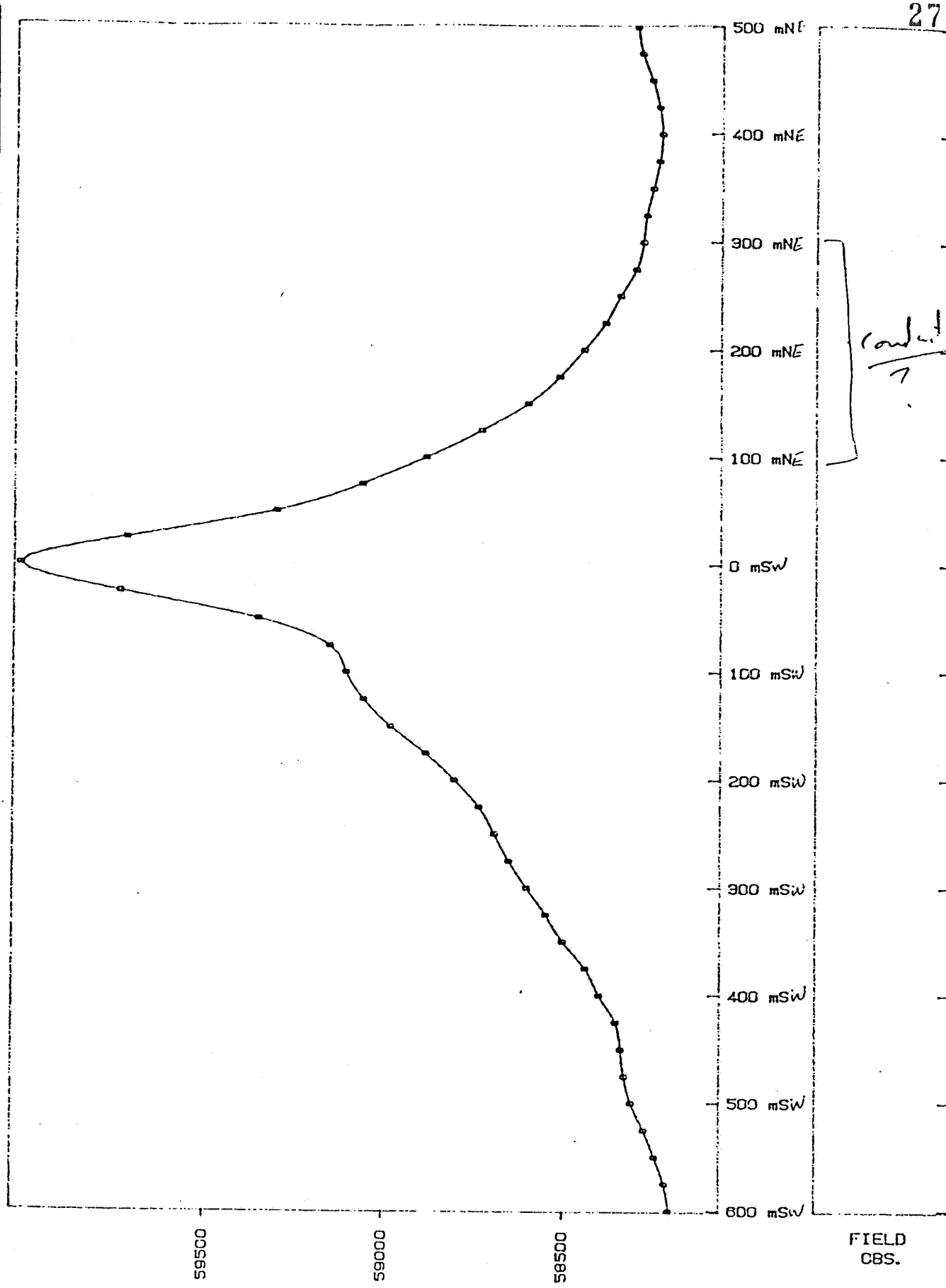
HORIZ. SCALE : 1: 6000
VERTICAL SCALE : 160 nT/CM
LINE AZIMUTH : N135E
PEAK MAG. READ. : 60015.9 nT
MAP SHEET : H53-9
AMG OF ON/OE : 642E205N
LINE & FID. NO. : 1289.ON/2631
SURVEY DATE : 31/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/W20
ANOM. 61W20
LINE 05W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


500S
400S
300S
200S
100S
0E
100E
200E
300E
400E
00000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
3
4
5
6
7
8
9
10
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-1/W20
SIROTEM PROFILE
TRAVERSE NO. ONW
LOOP= 100 m



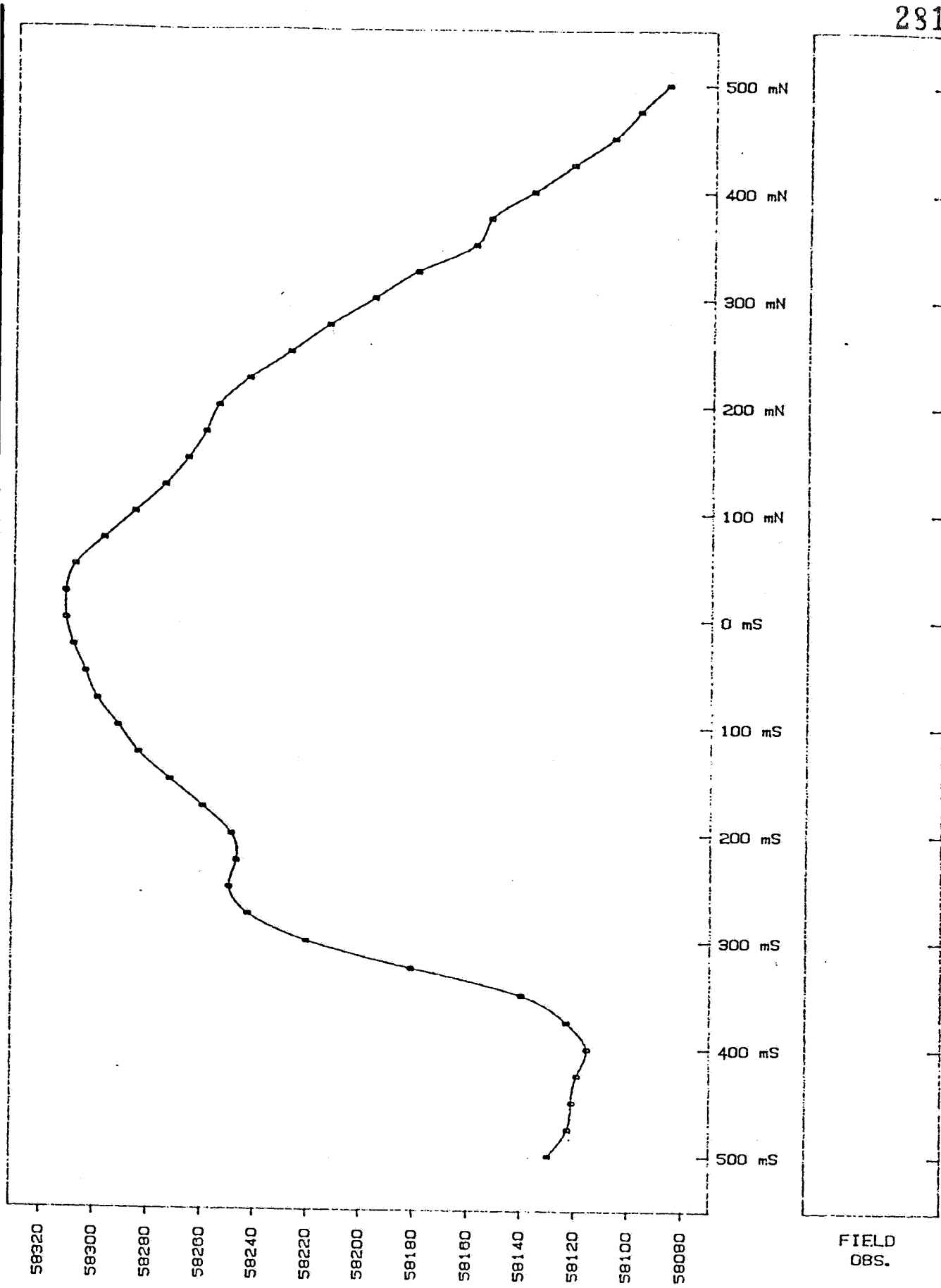
HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 150 nT/CM
LINE AZIMUTH : N45E
PEAK MAG. READ. : 60015.9 nT
MAP SHEET : H53-9
AMG OF ON/OE : 642E205N
LINE & FID. NO. : 1289.ON/2631
SURVEY DATE : 31/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/W20
ANOM. 61W20
LINE ON/NW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
600S
500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
500N
600N
1
2
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4
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6
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TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-1/E07
SIROTEM PROFILE
TRAVERSE NO. 0W
LOOP= 100 m

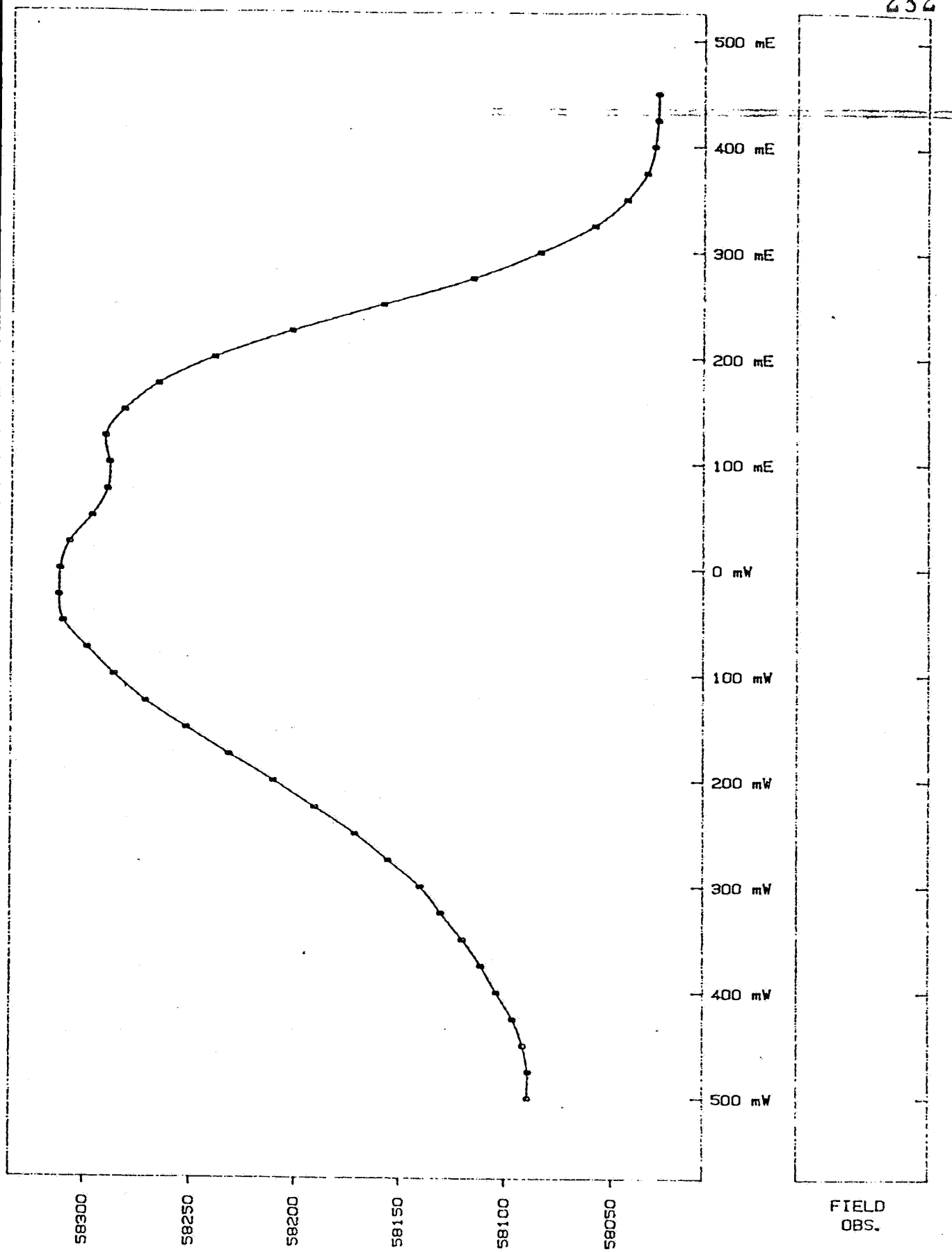


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58313.2 nT
MAP SHEET : H53-9
AMG OF ON/OE : 655E190N
LINE & FID. NO. : 1239.0S/5411
SURVEY DATE : 01/04/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/E07
ANOM. 61E07
LINE 0W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

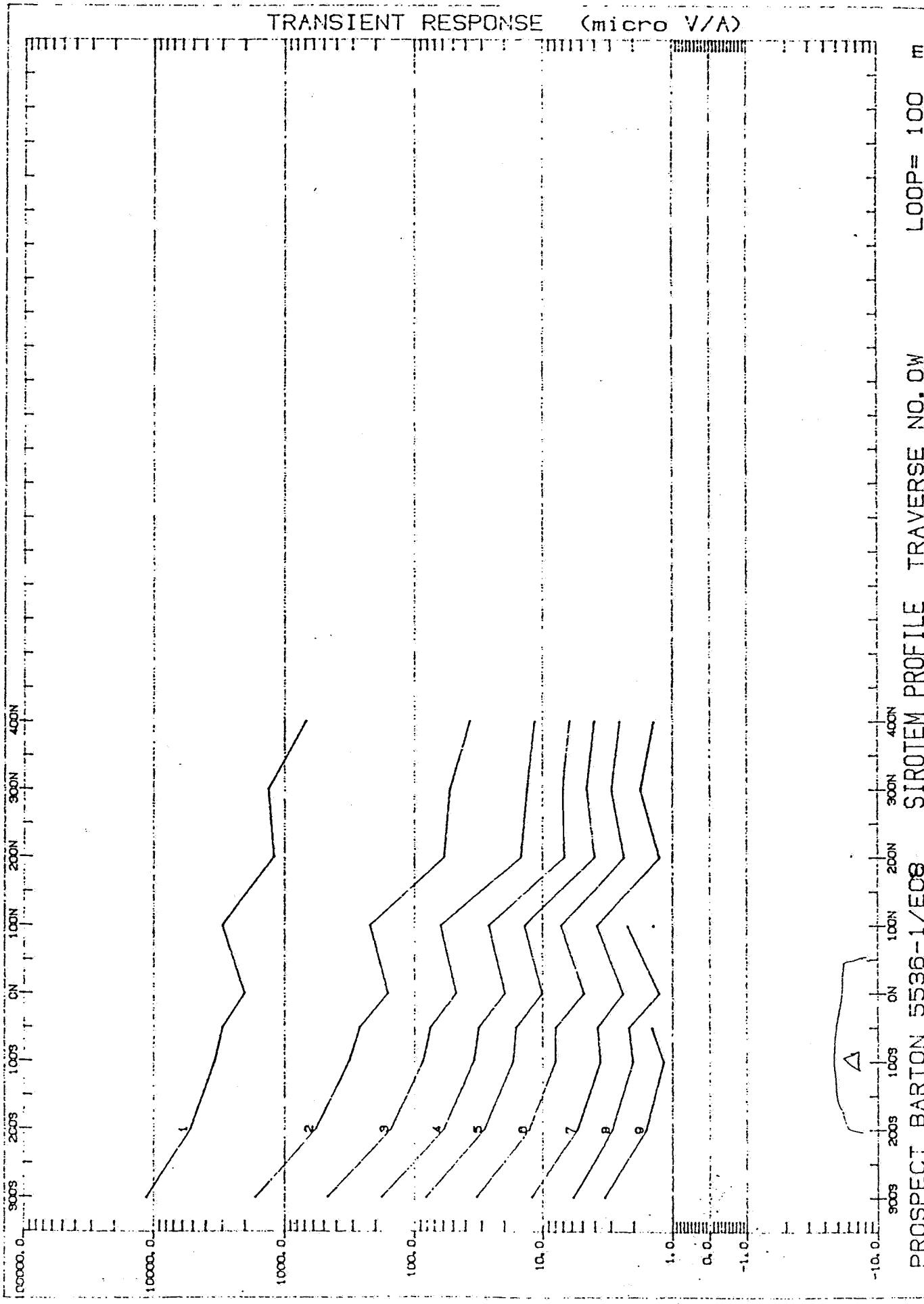


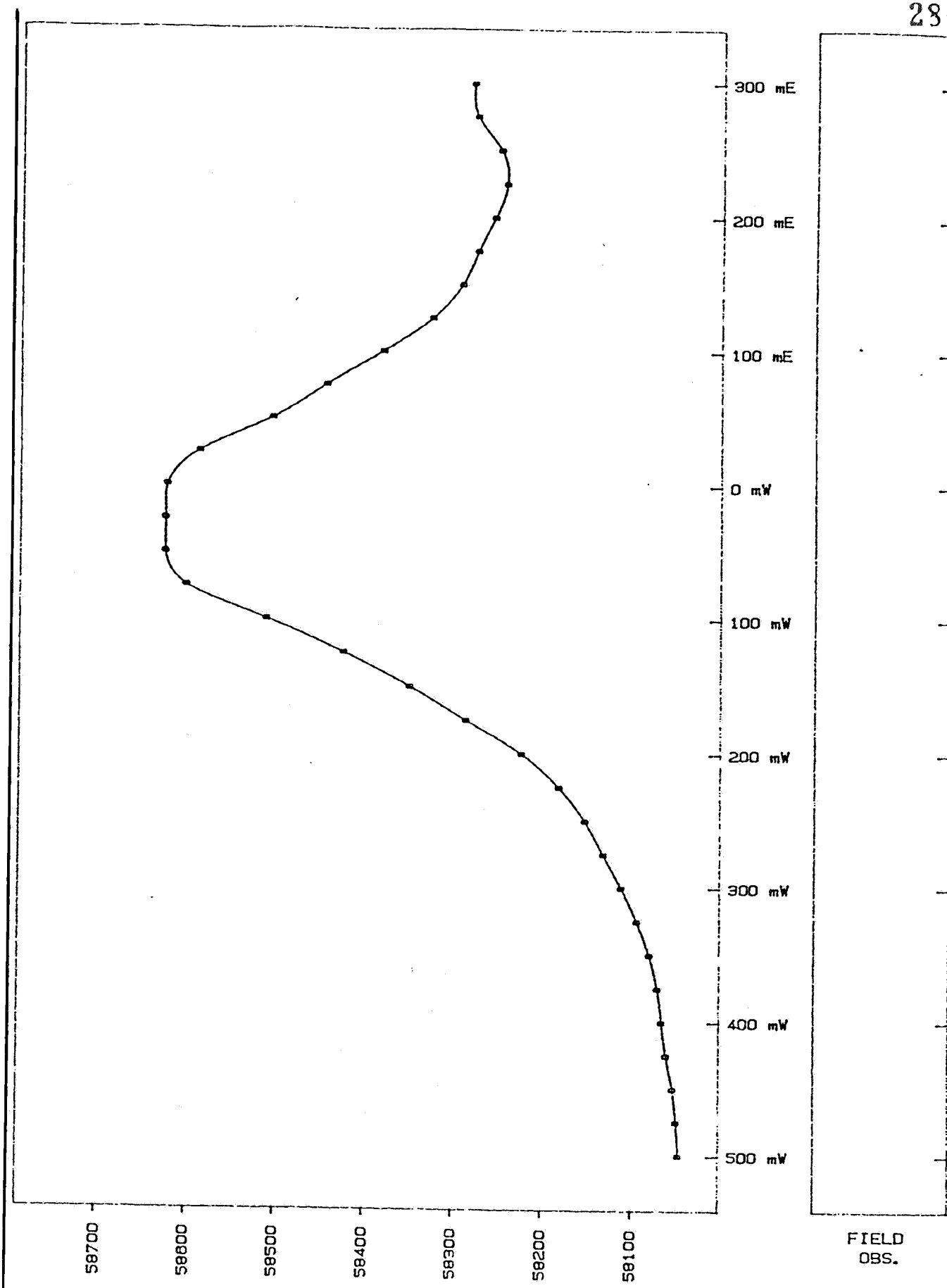
HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 25 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58313.2 nT
MAP SHEET : H53-9
AMG OF ON/OE : 655E190N
LINE & FID. NO. : 1239.0S/5411
SURVEY DATE : 01/04/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/E07
ANOM. 61E07
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
CEI	


TRANSIENT RESPONSE (micro V/A)
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
900S
200S
100S
0N
100N
200N
300N
400N
1
2
3
4
5
6
7
8
9
PROSPECT BARTON 5536-1/EOS SIROTEM PROFILE TRAVERSE NO. OW LOOP= 100 m

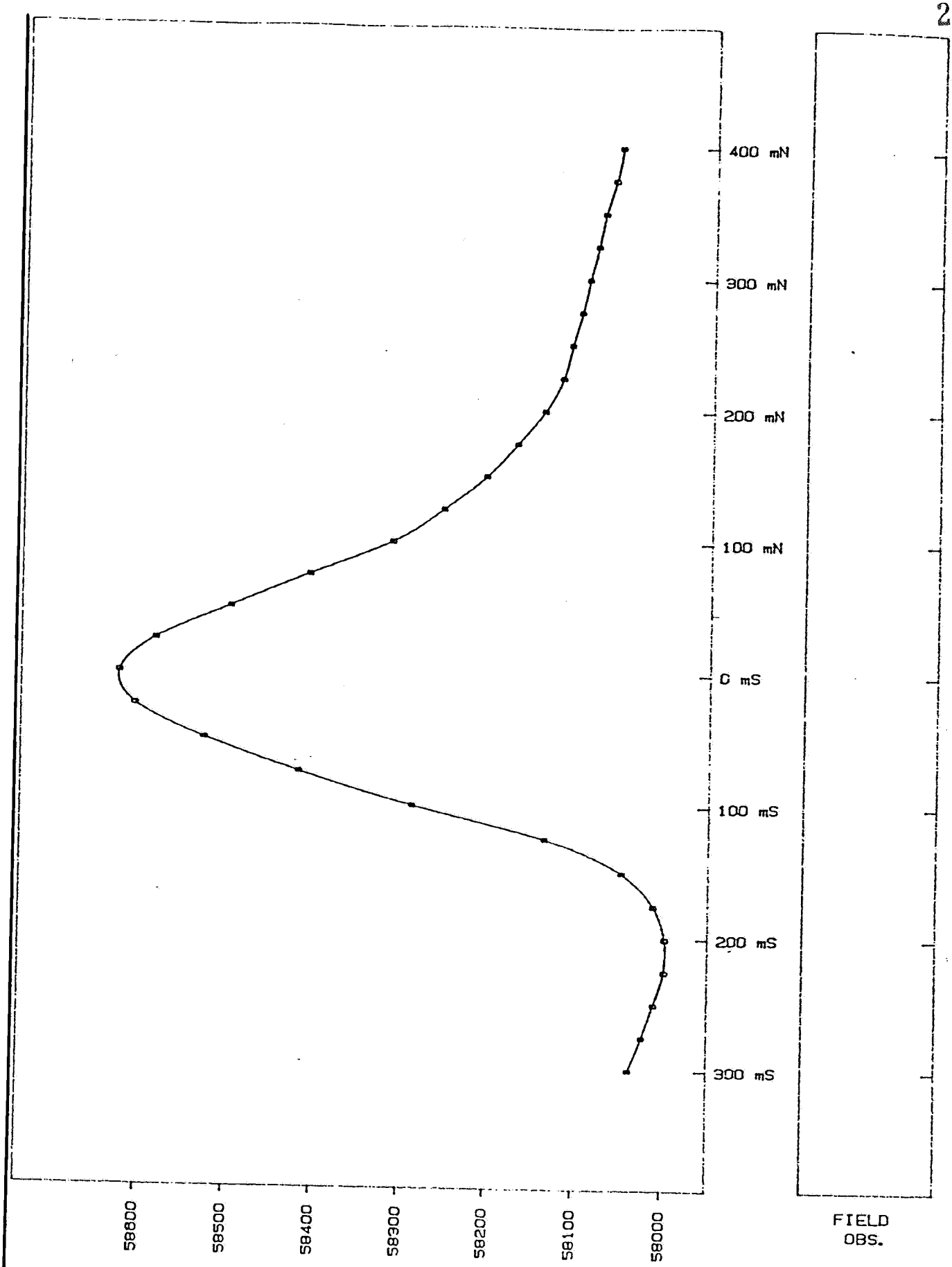


HORIZ. SCALE : 1: 4000
VERTICAL SCALE : 60 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58625.9 nT
MAP SHEET : H53-9
AMG OF ON/OE : 657.5E195N
LINE & FID. NO. : 1236.1N/2375
SURVEY DATE : 27/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/E08
ANOM. 61E08
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

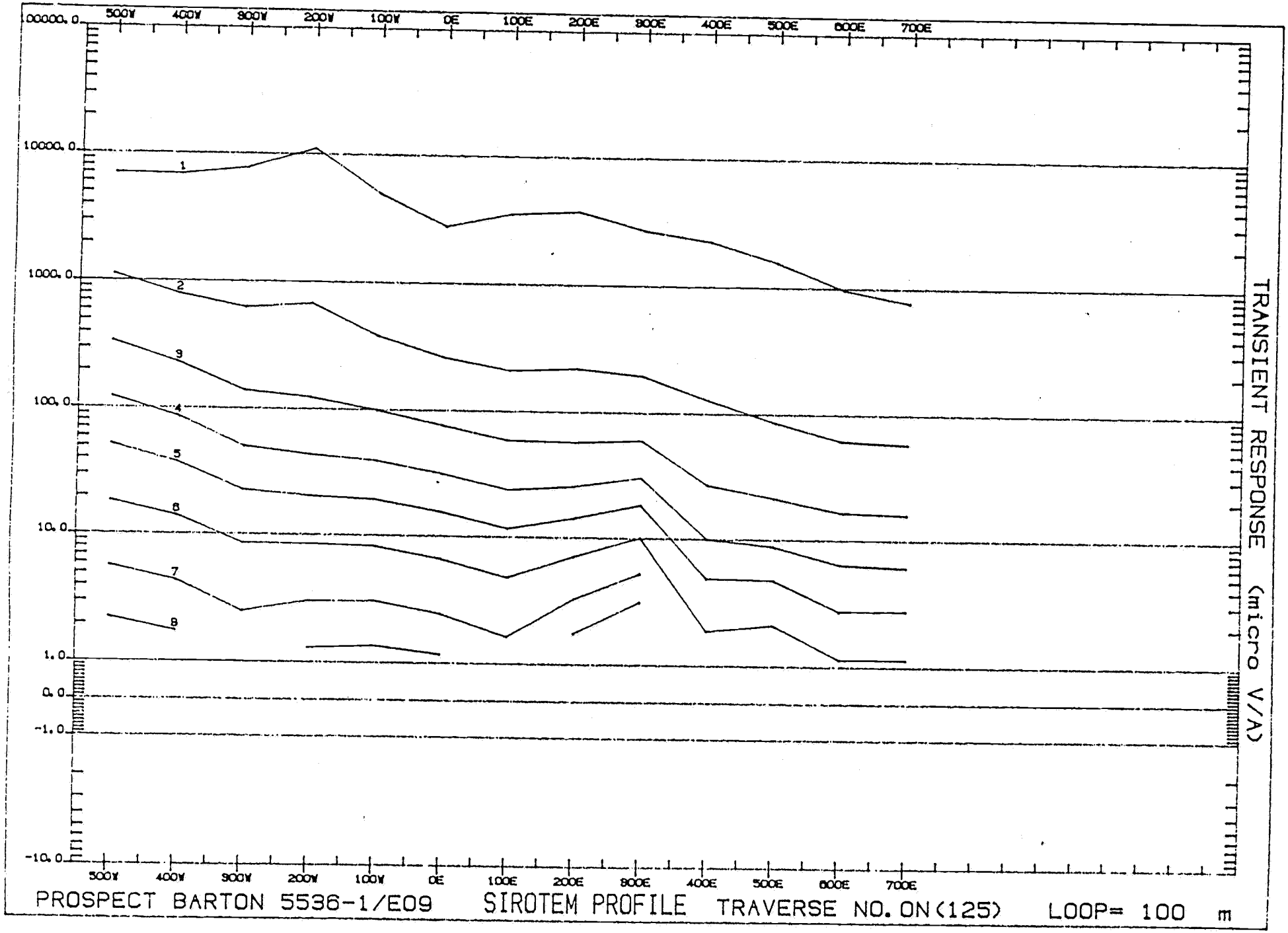


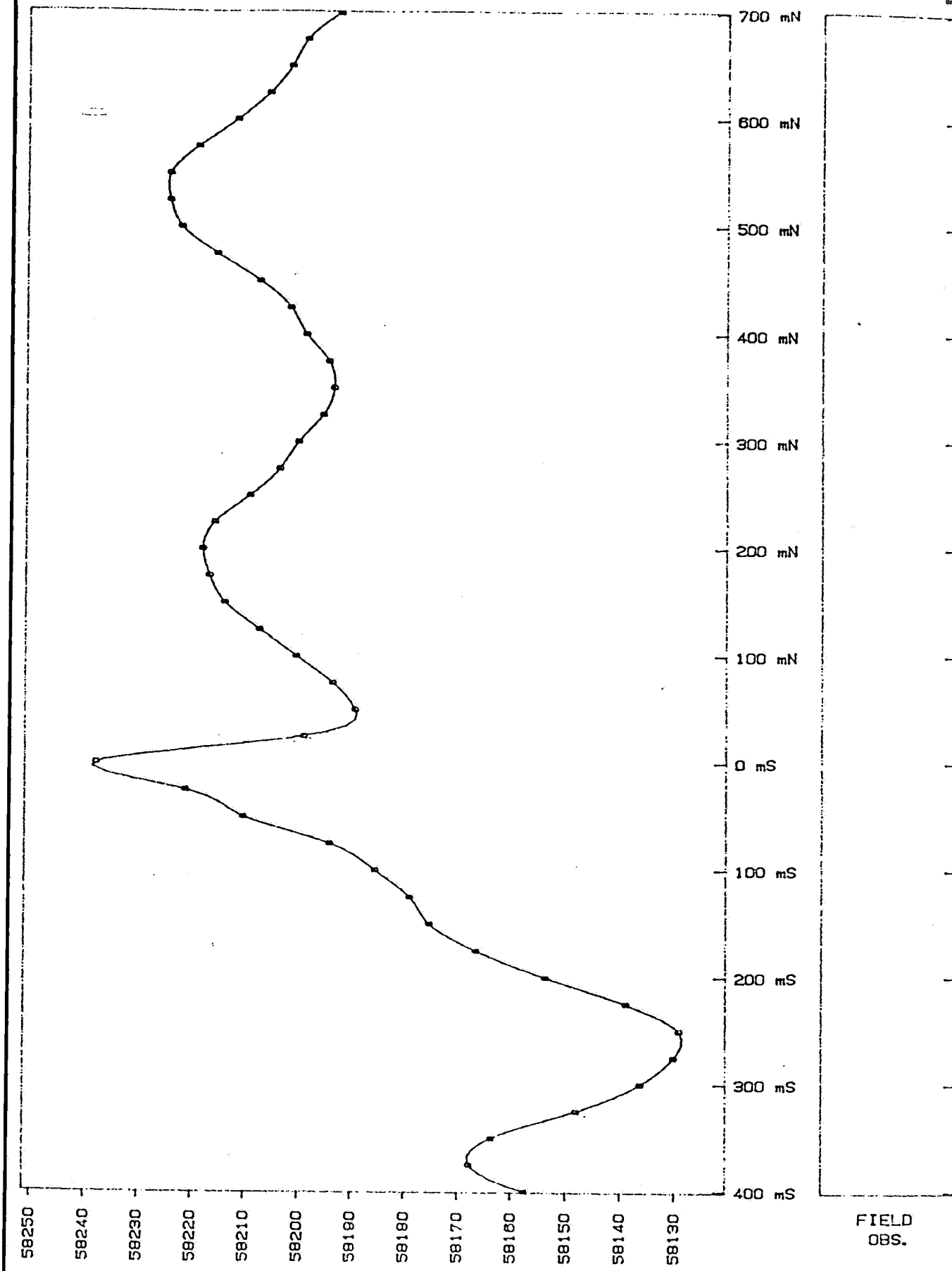
HORIZ. SCALE : 1: 4000
VERTICAL SCALE : 60 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58625 nT
MAP SHEET : H53-9
AMG OF ON/OE : 657.5E195N
LINE & FID. NO. : 1236.1N/2375
SURVEY DATE : 27/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/E08
ANOM. 61E08
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


500W
400W
300W
200W
100W
0E
100E
200E
300E
400E
500E
600E
700E
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
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8
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-1/E09 SIROTEM PROFILE TRAVERSE NO. ON(125) LOOP= 100 m

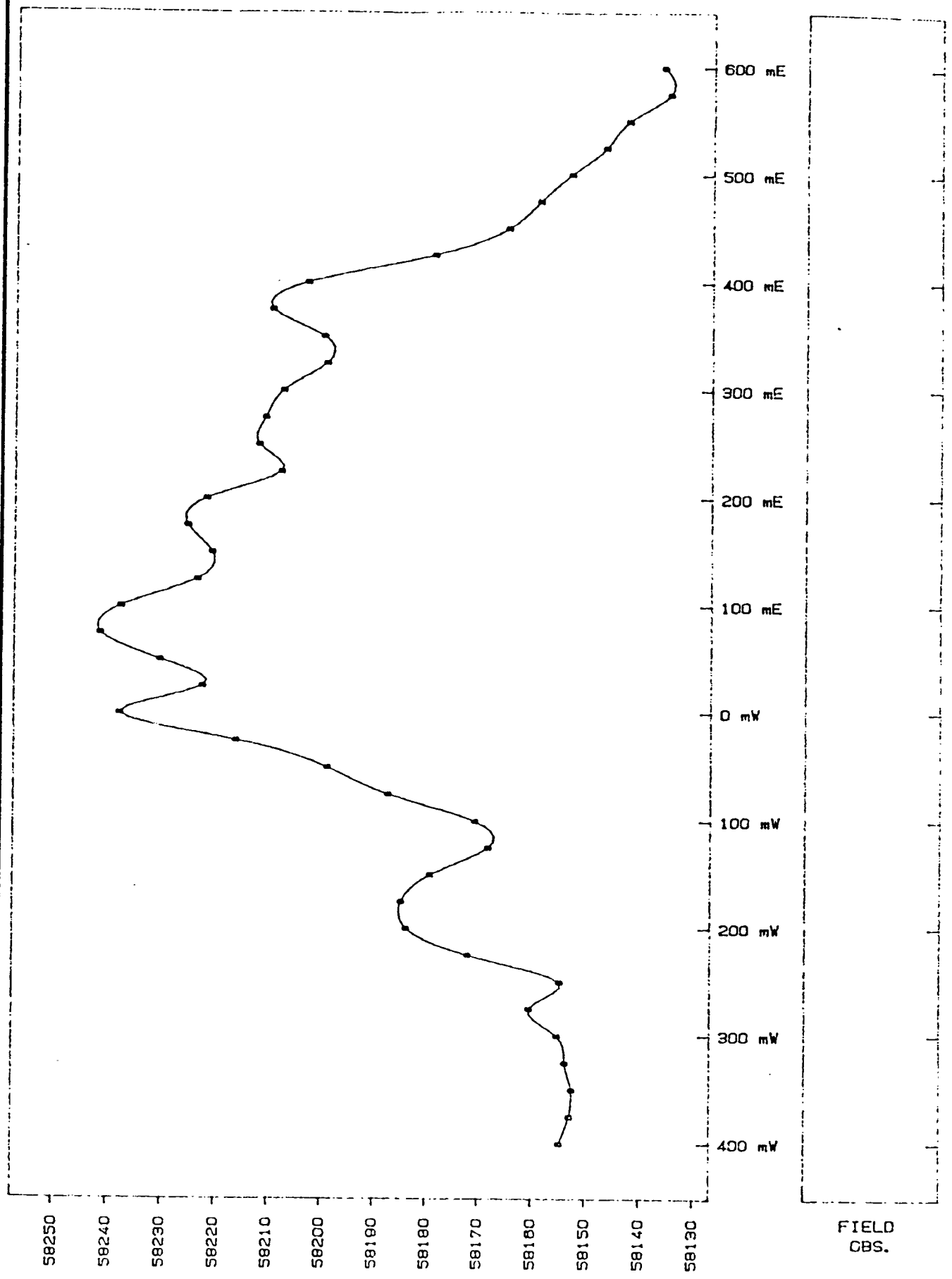


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : N35E
PEAK MAG. READ. : 58240.2 nT
MAP SHEET : H53-9
AMG OF ON/OE : 652E192N
LINE & FID. NO. : 1248.ON/1040
SURVEY DATE : 01/04/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/E09
ANOM. 61E09
LINE OW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

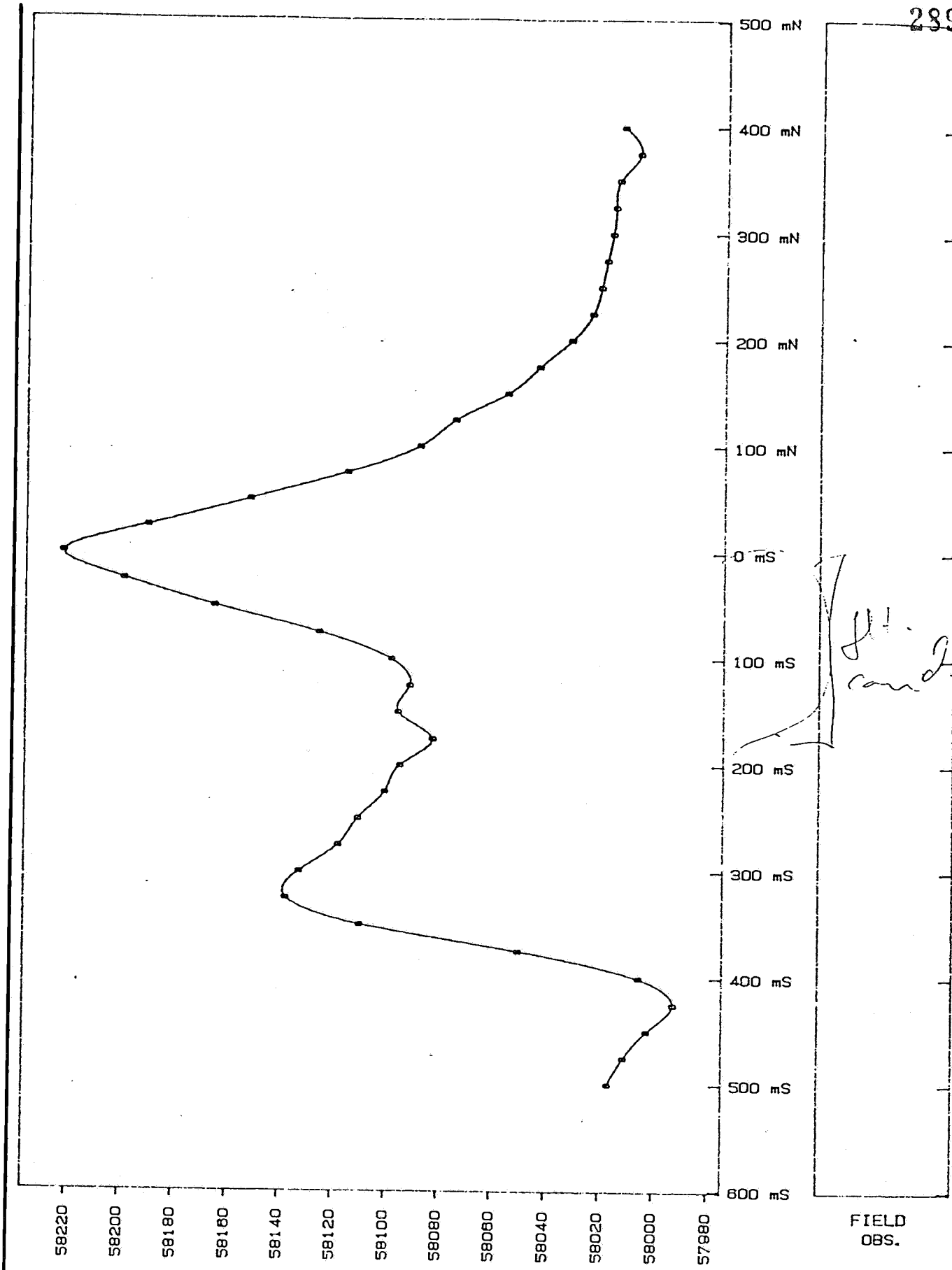


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 10 nT/CM
LINE AZIMUTH : N125E
PEAK MAG. READ. : 58241.8 nT
MAP SHEET : H53-9
AMG OF ON/OE : 652E192N
LINE & FID. NO. : 1248.ON/1040
SURVEY DATE : 01/04/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/E09
ANOM. 61E09
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	

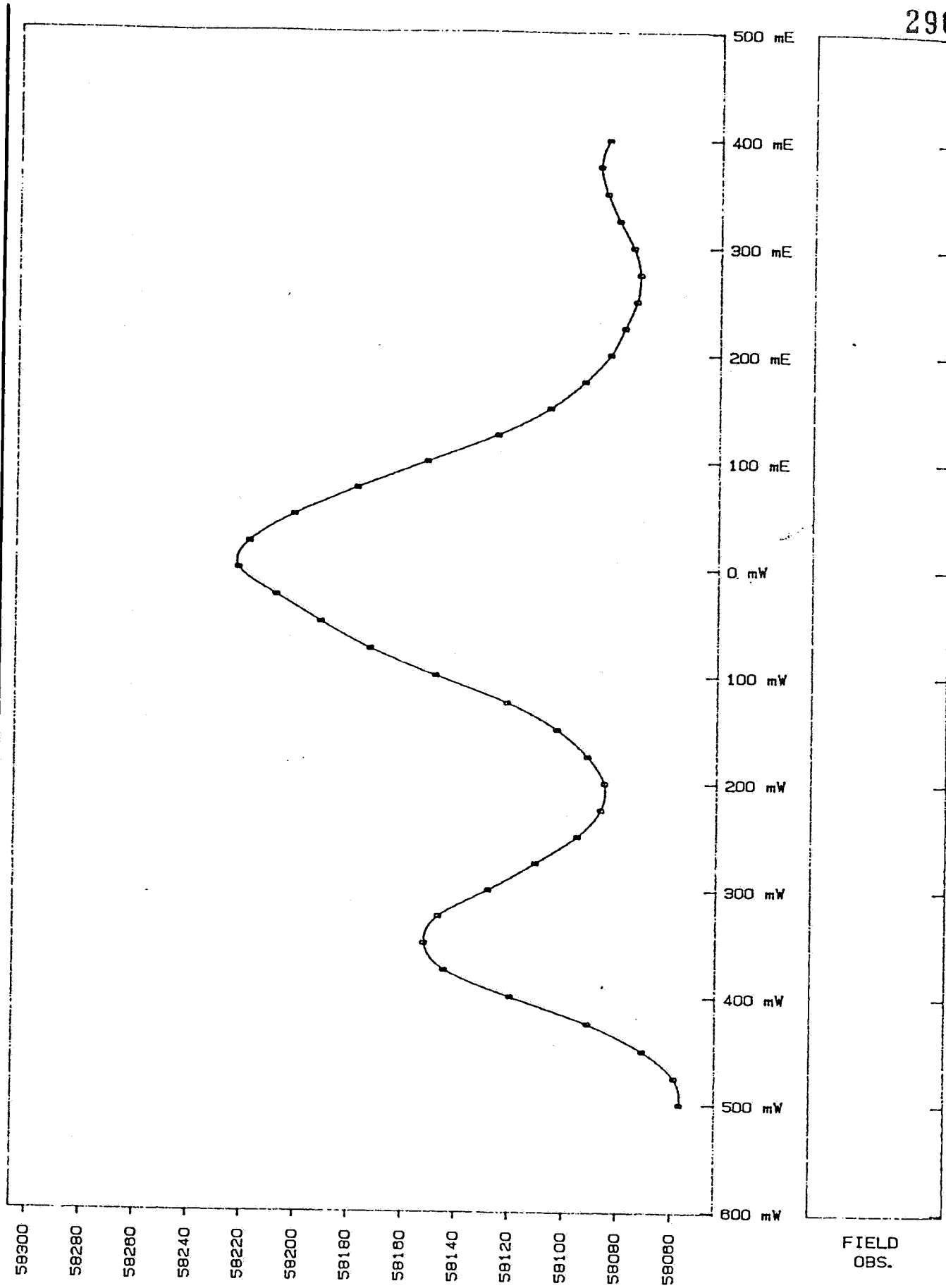


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 58223.7 nT
MAP SHEET : HS3-9
AMG OF ON/OE : 612E210N
LINE & FID. NO. : 1384.1N/1656
SURVEY DATE : 21/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4/W16
ANOM. 64W16
LINE 0W

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

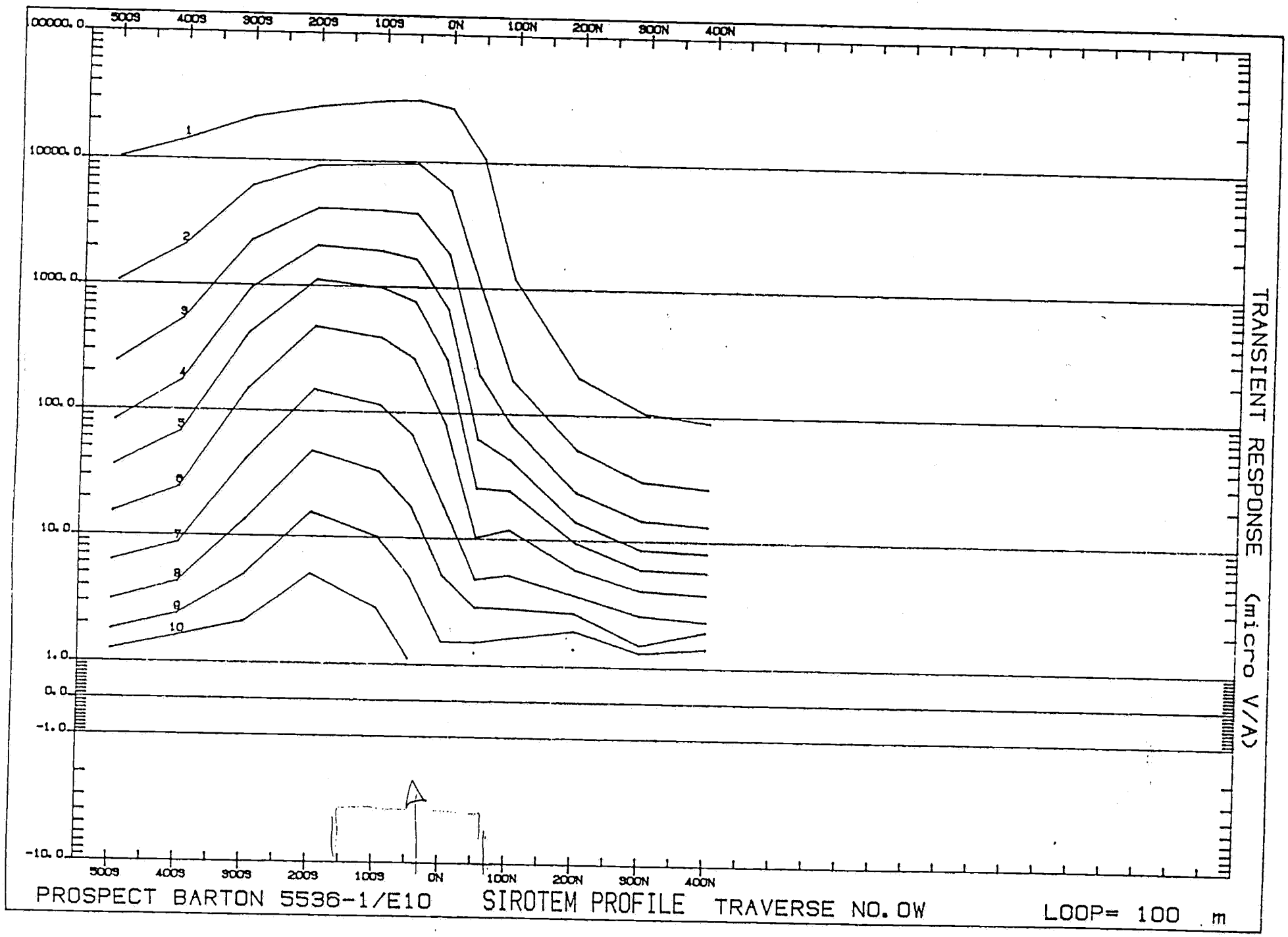


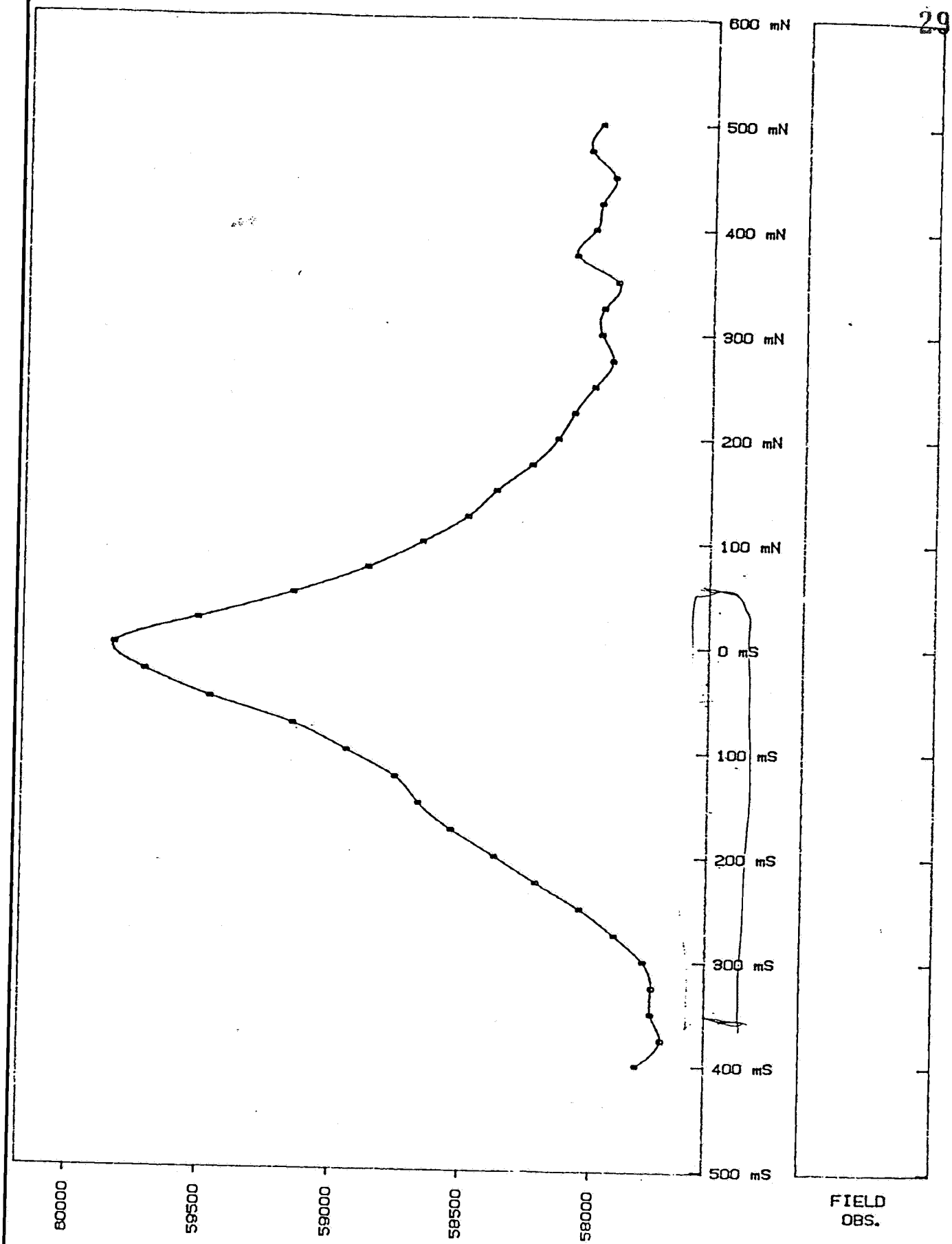
HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 20 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 58223.7 nT
MAP SHEET : H53-9
AMG OF ON/OE : 612E210N
LINE & FID. NO. : 1384.1N/1656
SURVEY DATE : 21/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4/W16
ANOM. 64W16
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEI	


500S
400S
300S
200S
100S
0N
100N
200N
300N
400N
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
3
4
5
6
7
8
9
10
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-1/E10 SIROTEM PROFILE TRAVERSE NO. OW
LOOP= 100 m

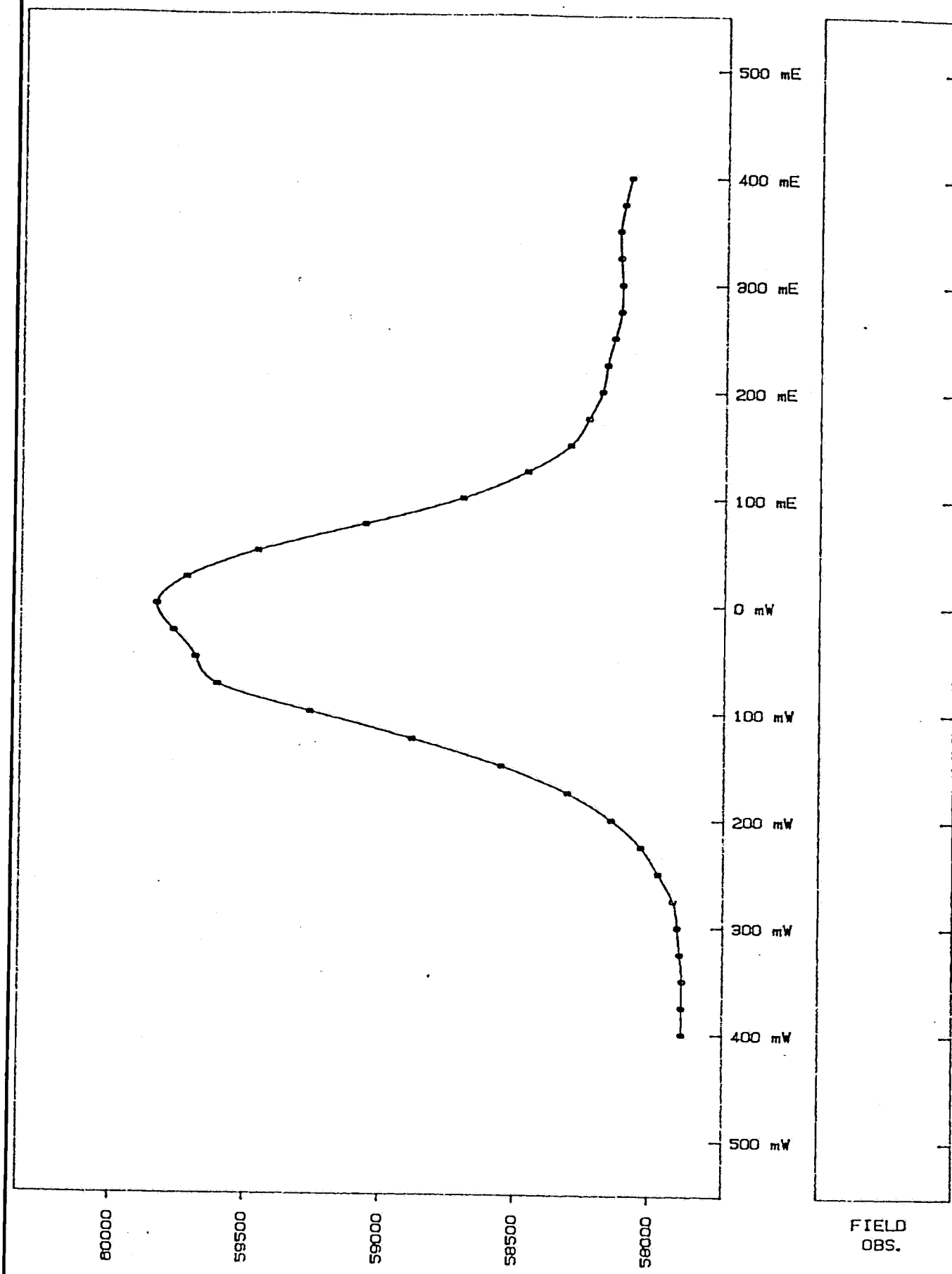


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 200 nT/CM
LINE AZIMUTH : NOE
PEAK MAG. READ. : 59837.8 nT
MAP SHEET : H53-9
AMG OF ON/OE : 658E207.5N
LINE & FID. NO. : 1250.ON/4052
SURVEY DATE : 27/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/E10
ANOM. 61E10
LINE OE

Compiled	
Drawn	
Date	
Scale	
Revised	
SFI	

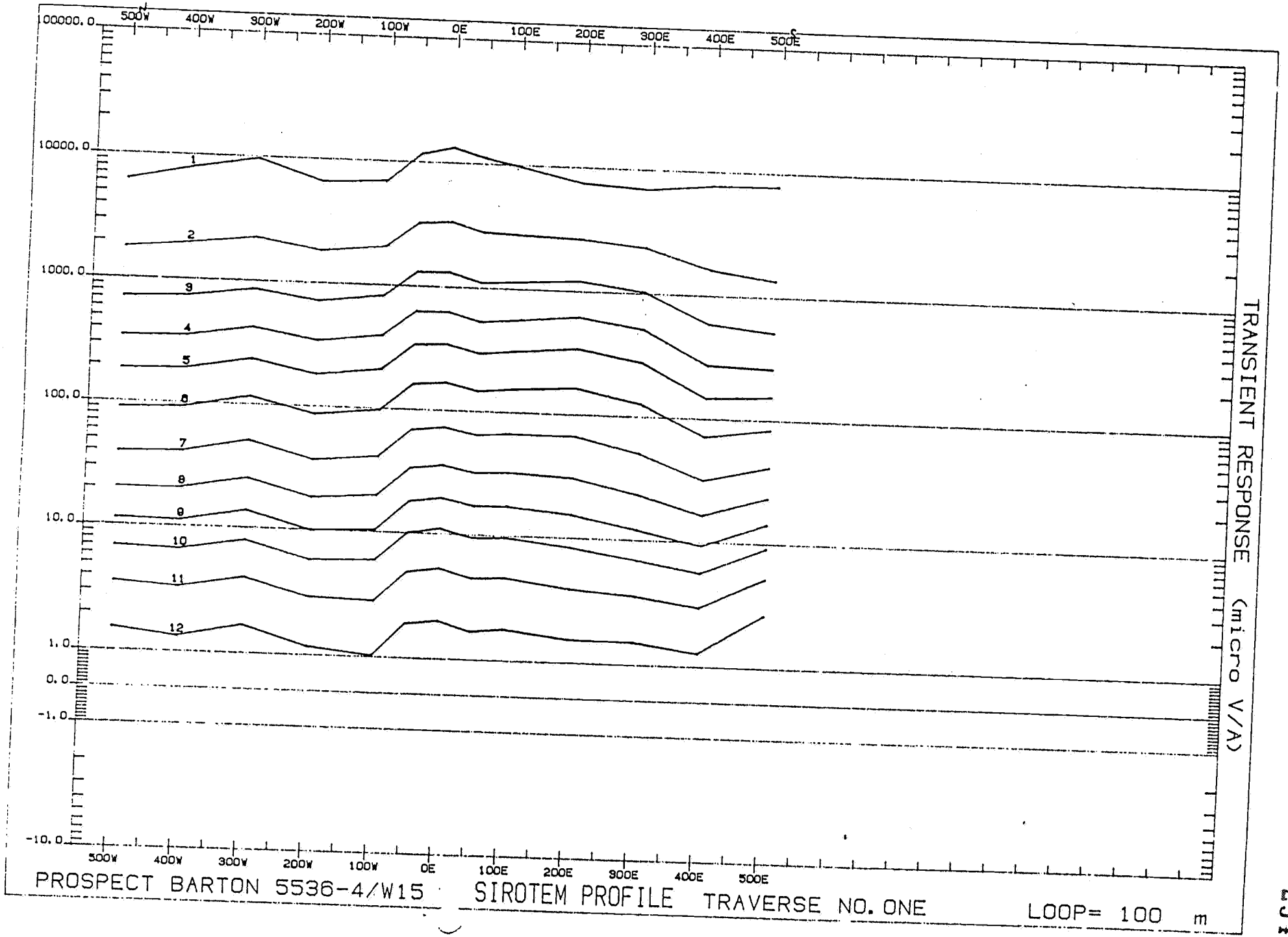


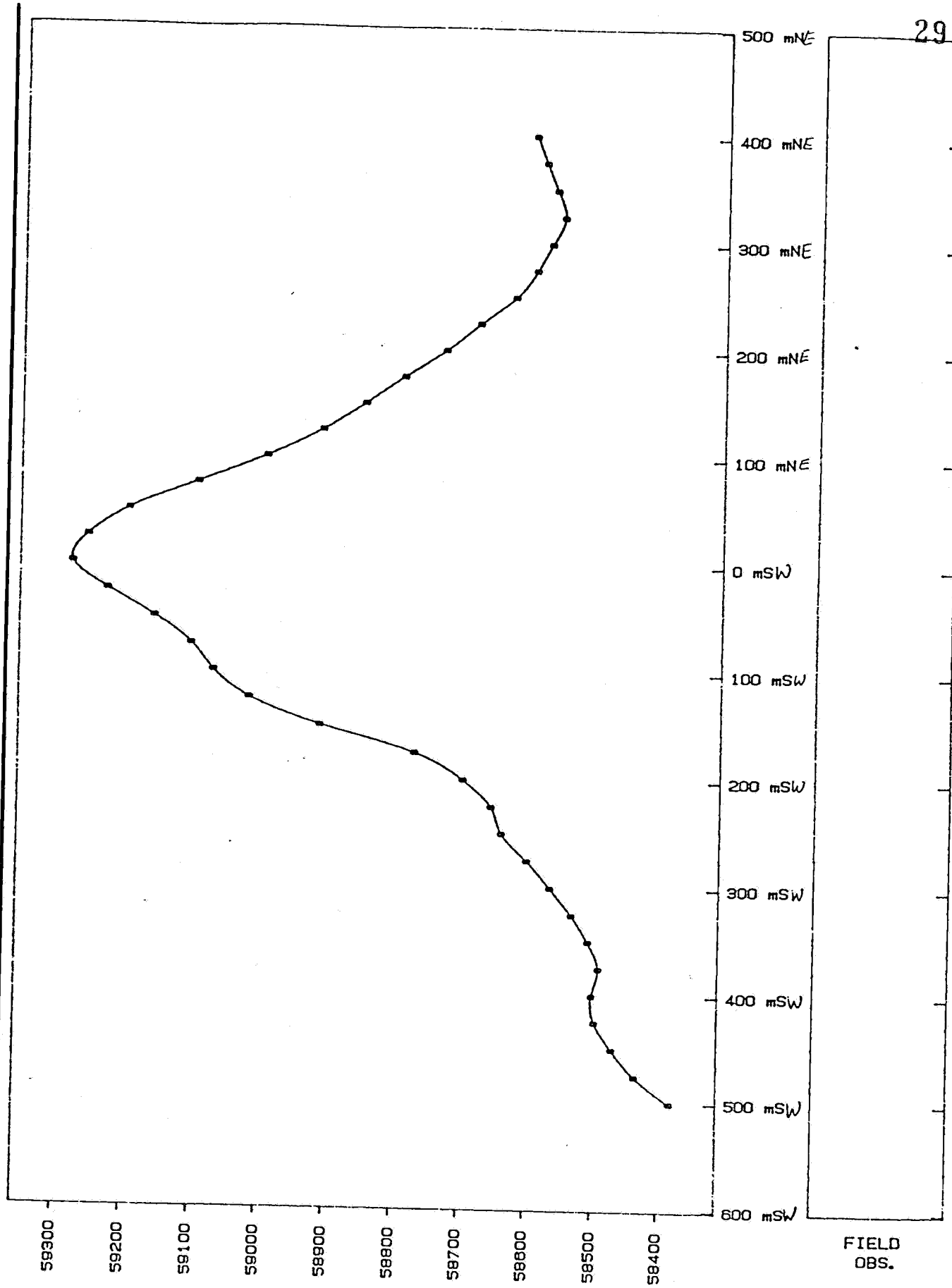
HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 200 nT/CM
LINE AZIMUTH : N90E
PEAK MAG. READ. : 59837.8 nT
MAP SHEET : H53-9
AMG OF ON/OE : 658E207.5N
LINE & FID. NO.: 1250.0N/4052
SURVEY DATE : 27/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-1/E10
ANOM. 61E10
LINE ON

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	


500W
400W
300W
200W
100W
0E
100E
200E
300E
400E
500E
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
3
4
5
6
7
8
9
10
11
12
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-4/W15
SIROTEM PROFILE
TRAVERSE NO. ONE
LOOP= 100 m

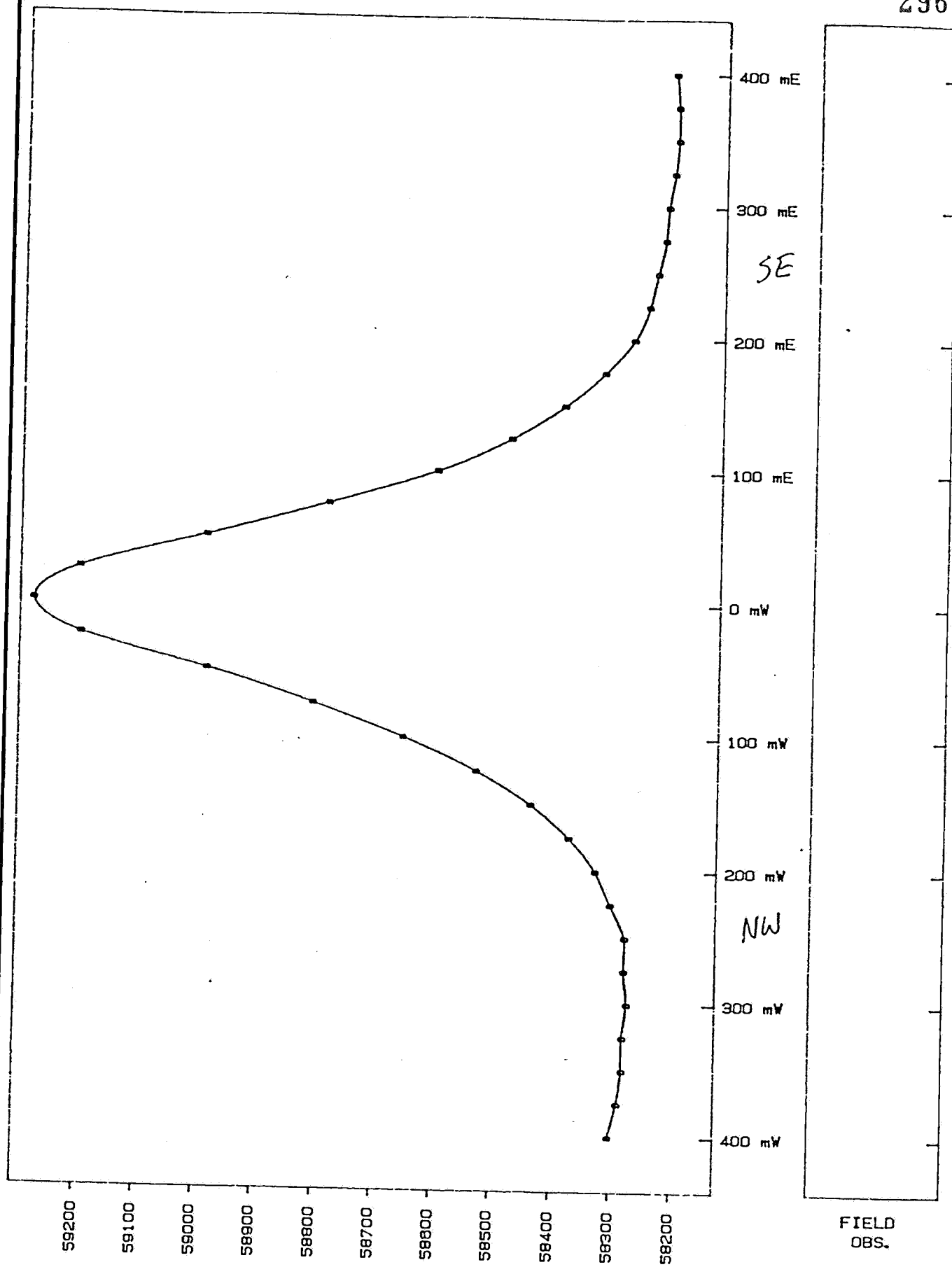


HORIZ. SCALE : 1: 5000
VERTICAL SCALE : 80 nT/CM
LINE AZIMUTH : N45E
PEAK MAG. READ. : 59284.3 nT
MAP SHEET : H53-9
AMG OF ON/OE : 616E195N
LINE & FID. NO. : 1350.2S/4701
SURVEY DATE : 21/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4/W15
ANOM. 64W15
LINE ONNW

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

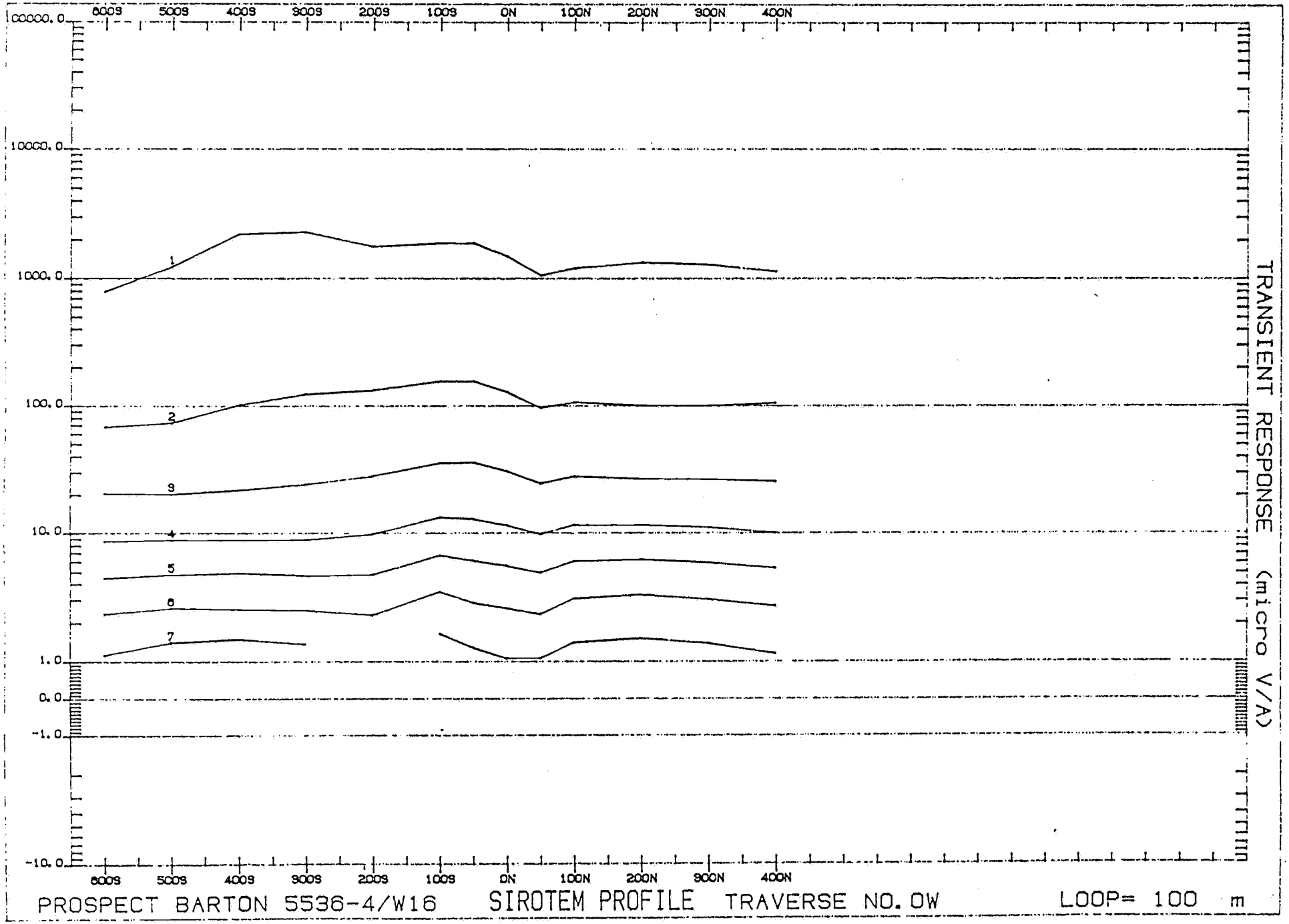


HORIZ. SCALE : 1: 4000
VERTICAL SCALE : 80 n⁻/CM
LINE AZIMUTH : N135E
PEAK MAG. READ. : 59284.3 nT
MAP SHEET : H53-9
AMG OF ON/OE : 616E195N
LINE & FID. NO. : 1350.2S/4701
SURVEY DATE : 21/03/87

STOCKDALE PROSPECTING LIMITED

MAGNETIC PROFILE (nT)
BARTON 5536-4/W15
ANOM. 64W15
LINE ONE

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL

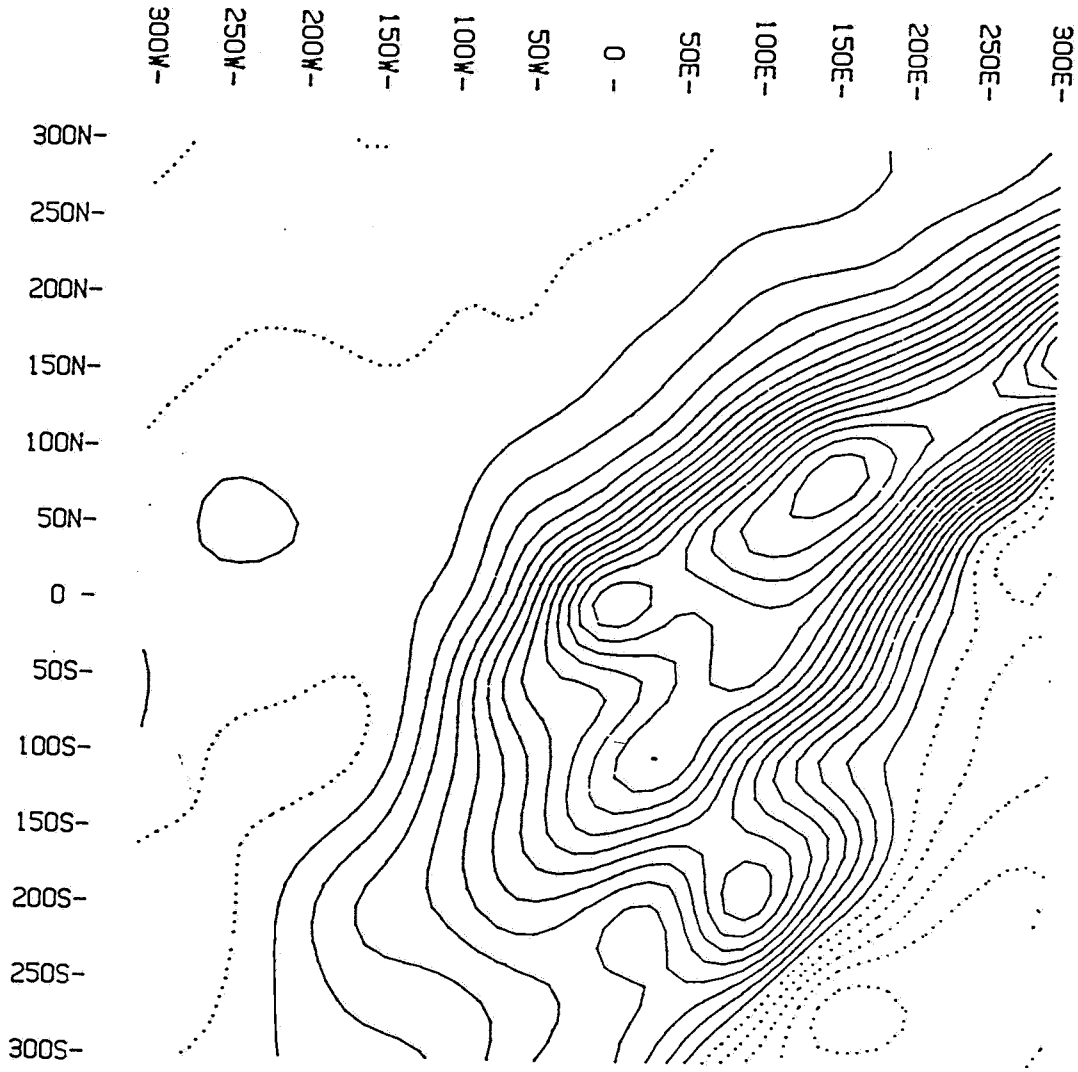

600S 500S 400S 300S 200S 100S 0N 100N 200N 300N 400N
100000.0
10000.0
1000.0
100.0
10.0
1.0
0.0
-1.0
-10.0
1
2
3
4
5
6
7
TRANSIENT RESPONSE (micro V/A)
PROSPECT BARTON 5536-4/W16 SIROTEM PROFILE TRAVERSE NO. OW LOOP= 100 m

APPENDIX VI

17th Quarter to 2 September, 1987

Ground geophysical results

16 Th '14 to 2nd Sept/87



LINE/FID.: 1521.05/166
CONTOUR INT: 30 nT
REF CONTOUR: 150 nT
SURVEY DATE: 15/06/87
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS

BARTON 5436-4/W19

64W19

Compiled	
Drawn	
Date	
Scale	
Revised	

	300W-	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-
300N-	145	107	97	89	107	113	108	115	128	139	154	159	184
250N-	109	100	102	101	114	116	117	128	146	153	175	212	285
200N-	102	112	107	105	118	118	133	149	184	210	253	359	526
150N-	106	123	132	121	126	129	150	186	260	365	457	530	590
100N-	124	143	141	138	134	160	194	279	454	602	554	437	180
50N-	139	152	149	137	143	220	325	476	580	570	410	153	79
0 -	144	145	142	139	166	301	524	487	506	459	245	120	95
50S-	151	133	126	124	208	360	394	447	483	348	180	99	68
100S-	146	118	110	127	225	321	421	477	330	202	137	87	62
150S-	126	117	129	173	246	327	392	349	334	278	135	57	41
200S-	103	108	159	216	244	292	262	248	373	202	67	20	21
250S-	102	113	158	195	205	230	245	237	192	17	2	6	23
300S-	115	126	152	169	184	227	254	183	61	18	14	20	33

LINE/FID: 1521.05/166
DATUM LEVEL: 57700 nT.
DATE OF SURVEY: 15/06/87
OPERATER: EV
SCALE: 1:5000

N

STOCKDALE PROSPECTING LIMITED

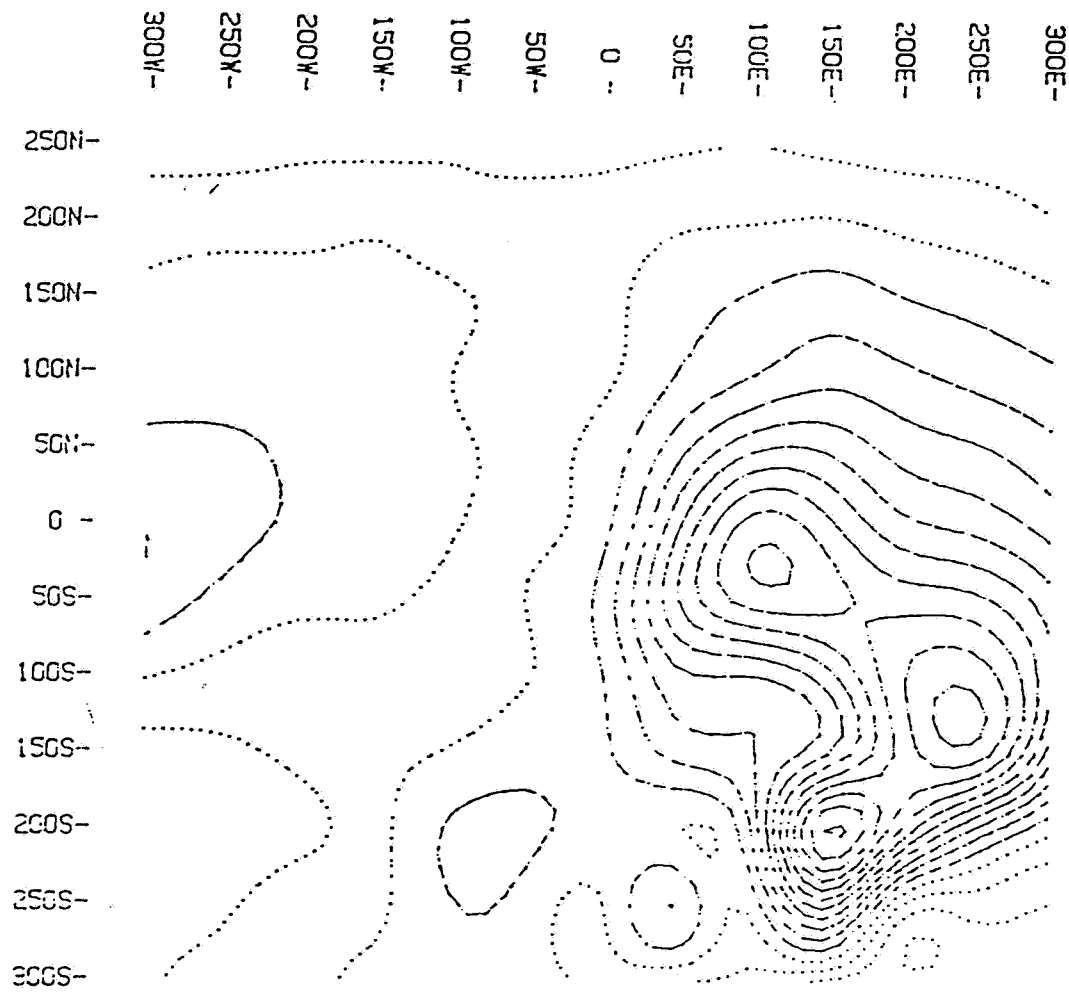
MAGNETOMETER DATA (nT.)
BARTON 5436-4/W19: H53-9
64W19

Compiled	
Drawn	
Date	
Scale	
Revised	

EL 1151

5436-1/E11	5536-3/W13
5536-1/E10	5536-4/W04
5536-2/E01	5536-4/W15

5536-3/W12



LINE/FID.: N.A.
CONTOUR INT: 10 nT
REF CONTOUR: 50 nT
SURVEY DATE: 25/07/87
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON 5436-1/E11
E11B

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

	300W-	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-
250N-	25	28	27	26	29	26	28	28	30	28	26	28	25
200N-	34	35	35	38	33	33	34	38	39	41	38	35	31
150N-	42	44	44	42	40	36	37	48	51	55	50	47	42
100N-	48	48	47	44	39	38	38	50	59	66	62	57	51
50N-	51	51	48	43	41	38	44	65	68	89	76	71	63
0 -	59	53	48	48	40	38	48	86	124	113	93	87	76
50S-	56	47	42	41	37	40	53	97	123	122	118	114	95
100S-	41	36	34	36	36	39	49	76	79	94	127	137	103
150S-	27	28	32	36	40	45	48	62	69	88	121	135	86
200S-	22	23	26	36	51	52	45	41	57	149	111	68	42
250S-	28	27	35	37	49	48	39	60	41	93	31	23	19
300S-	27	34	36	43	44	44	37	30	27	17	13	15	15

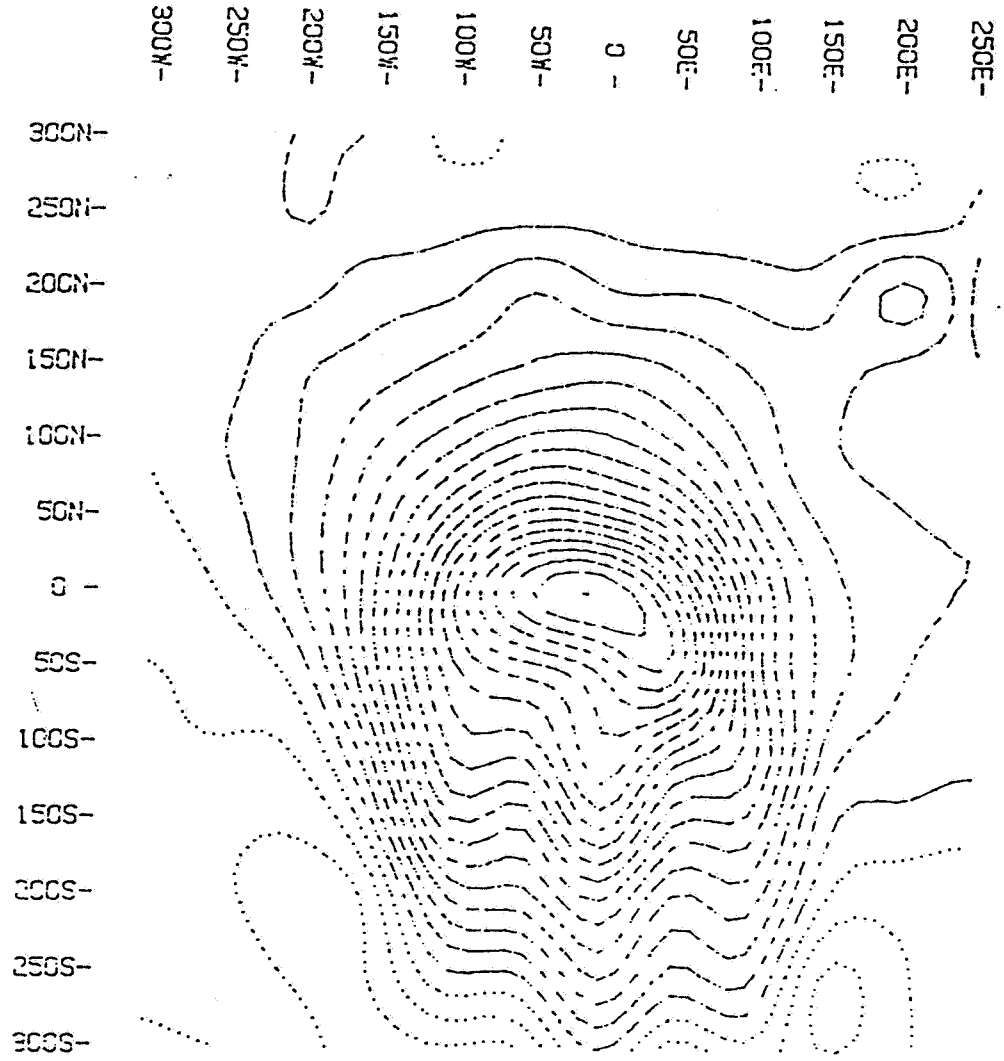
LINE/FID: N.A.
DATUM LEVEL: 58000 nT.
DATE OF SURVEY: 25/07/87
OPERATER: MB
SCALE: 1:5000

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5436-1/E11: H53-9
E11B

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



LINE/FID.: 1250.0N/4052
CONTOUR INT: 100 nT
REF CONTOUR: 400 nT
SURVEY DATE: 23/07/87
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON 5536-1/E10
61E10

Compiled	
Drawn	
Date	
Scale	
Revised	

	300W	250W	200W	150W	100W	50W	0	50E	100E	150E	200E	250E
300N	316	349	416	374	272	343	343	343	358	318	316	307
250N	334	352	407	342	381	368	379	342	338	340	347	425
200N	339	380	379	458	491	595	503	497	482	464	630	368
150N	340	376	484	551	636	711	746	685	586	534	467	414
100N	317	403	512	695	874	1044	1031	987	666	515	462	415
50N	282	372	534	831	1240	1562	1512	1283	818	581	508	489
0	249	315	510	915	1600	2067	2185	1820	1070	654	543	490
50S	198	244	369	883	1481	1953	1834	1954	1121	670	514	439
100S	184	195	230	667	1334	1359	1685	1431	1166	597	461	429
150S	181	125	121	410	1088	1035	1446	1019	972	458	364	329
200S	151	106	67	159	716	758	1017	692	747	324	234	248
250S	174	139	85	109	990	416	729	475	535	109	175	233
300S	215	198	153	41	90	107	403	157	281	106	176	243

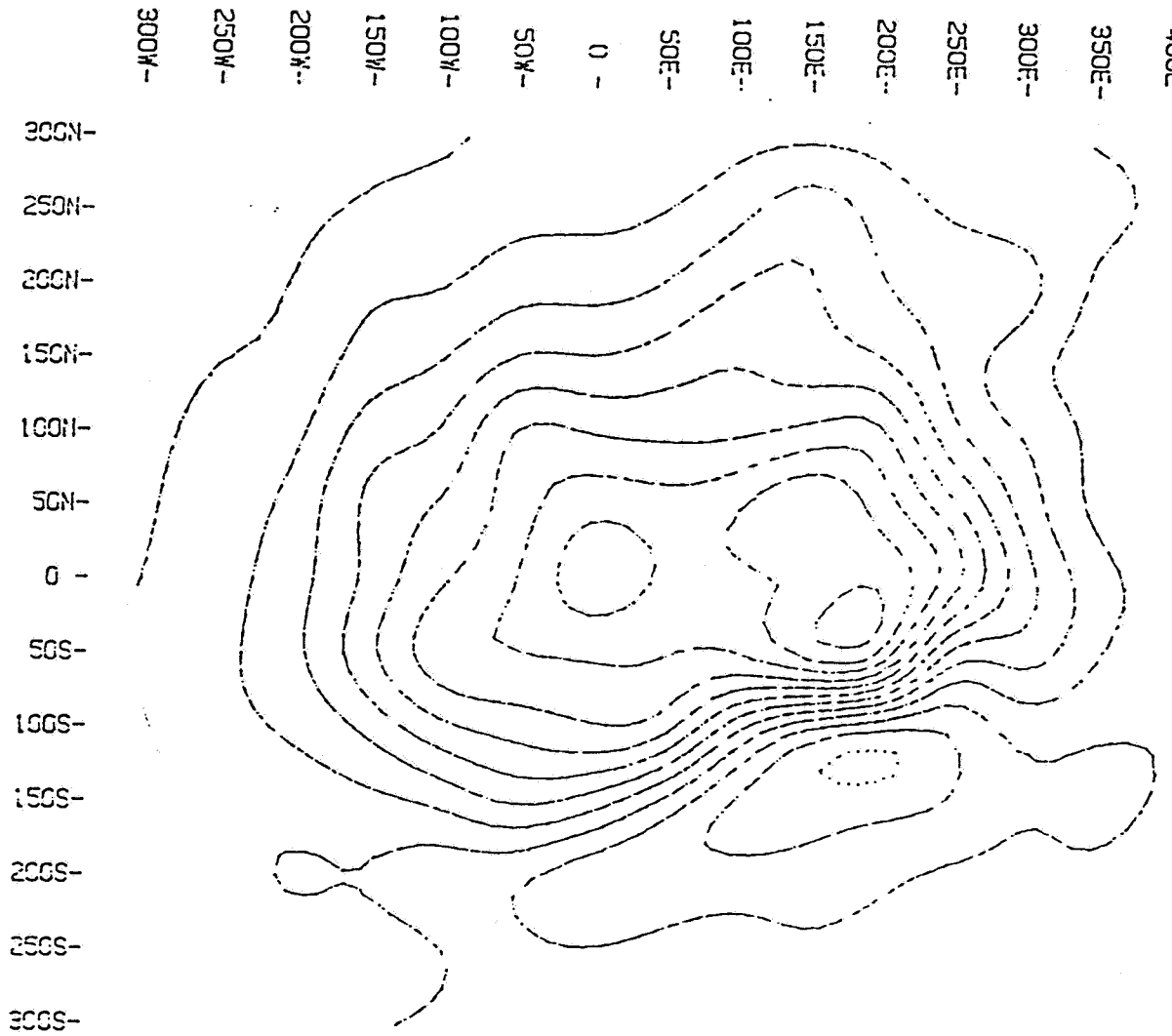
LINE/FID: 1250.0N/4052
DATUM LEVEL: 57650 nT.
DATE OF SURVEY: 23/07/87
OPERATER: EY
SCALE: 1:5000

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5536-1/E10: HS3-
61E10

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



LINE/FID.: 1242.ON/2230
CONTOUR INT: 50 nT
REF CONTOUR: 50 nT
SURVEY DATE: 18/07/87
SCALE: 1:5000
MAP HS3-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON 5536-2/E01
62E01

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

	300W-	250W-	200W-	150W-	100W-	50W-	0	50E-	100E-	150E-	200E-	250E-	300E-	350E-	400E-
300N-	108	117	123	143	147	160	165	174	185	198	183	171	184	148	135
250N-	116	124	139	156	164	184	189	201	239	277	232	197	181	160	134
200N-	119	141	151	188	198	232	234	254	302	304	255	223	215	139	136
150N-	127	148	163	221	250	305	306	325	347	329	307	233	169	131	139
100N-	134	162	186	271	306	403	401	392	397	423	417	275	200	140	133
50N-	142	173	214	308	355	425	486	474	495	545	485	378	241	144	119
0 -	149	178	228	309	393	448	525	494	490	513	547	422	278	179	122
50S-	157	186	233	329	425	447	454	450	439	497	476	220	211	154	103
100S-	160	182	207	258	331	366	389	366	212	87	37	49	109	104	100
150S-	152	162	169	185	208	249	221	137	47	23	34	57	95	93	105
200S-	171	171	147	148	136	111	78	84	71	74	91	109	109	108	130
250S-	169	168	170	167	153	117	105	113	130	111	117	113	106	122	148
300S-	172	176	181	160	139	121	129	142	146	123	114	114	121	136	140

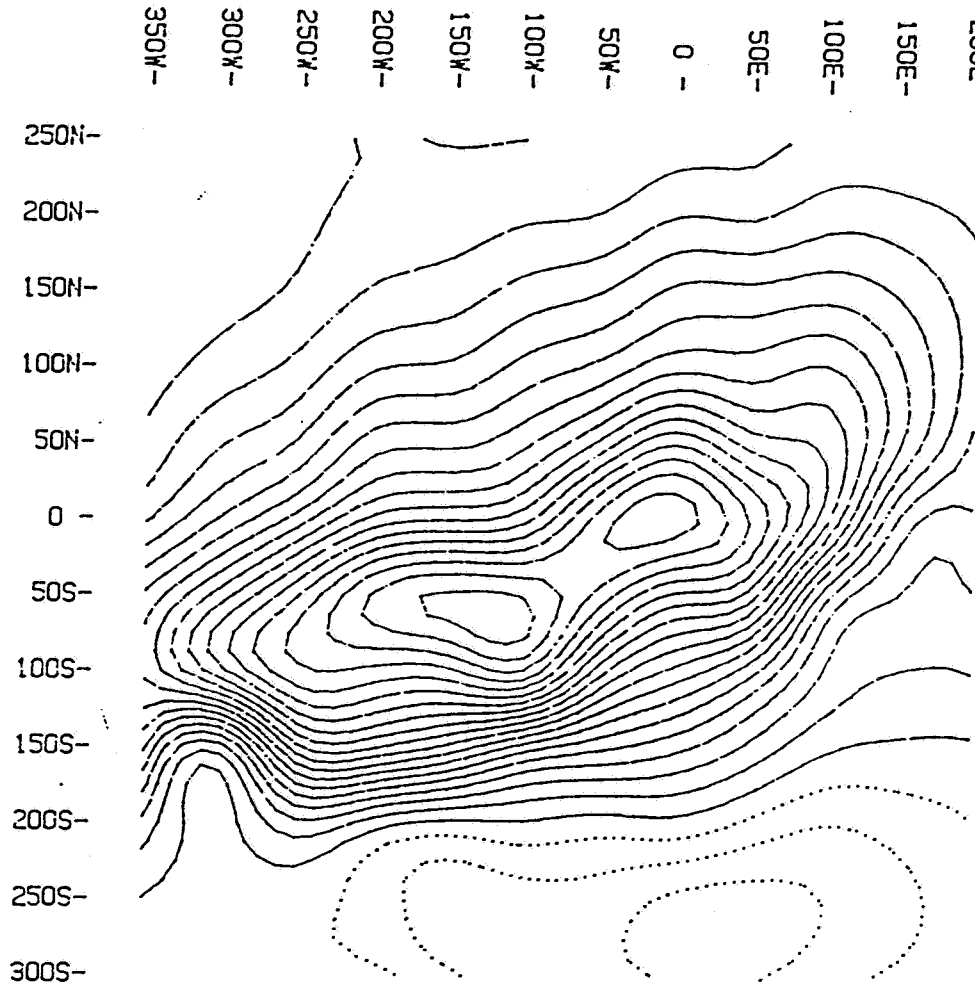
LINE/FID: 1242. ON/2230
DATUM LEVEL: 58050 nT.
DATE OF SURVEY: 18/07/87
OPERATER: DGM
SCALE: 1:5000

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5536-2/E01: H53-62E01

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



LINE/FID.: 1336.1S/708
CONTOUR INT: 50 nT
REF CONTOUR: 200 nT
SURVEY DATE: 06/07/87
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON 5536-3/W12
63W12

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

	350W-	300W-	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-
250N-	299	290	294	301	298	300	308	328	339	362	357	353
200N-	271	277	292	313	324	343	355	401	398	434	425	393
150N-	280	283	310	357	377	421	452	514	519	538	498	422
100N-	275	323	367	445	481	522	569	643	630	659	556	428
50N-	315	398	458	578	589	645	774	906	789	740	548	388
0 -	391	507	622	766	800	841	1028	1075	949	707	388	340
50S-	556	724	895	1056	1111	1097	976	828	768	409	296	293
100S-	610	791	938	932	931	985	712	577	460	294	246	247
150S-	462	280	631	654	576	485	402	359	284	204	187	188
200S-	290	180	286	224	180	189	171	177	135	97	114	144
250S-	199	173	173	129	74	74	78	38	27	48	83	122
300S-	153	162	165	166	114	71	68	46	44	79	110	138

LINE/FID: 1336. 1S/708
DATUM LEVEL: 58100 nT.
DATE OF SURVEY: 06/07/87
OPERATER: MB
SCALE: 1:5000

N

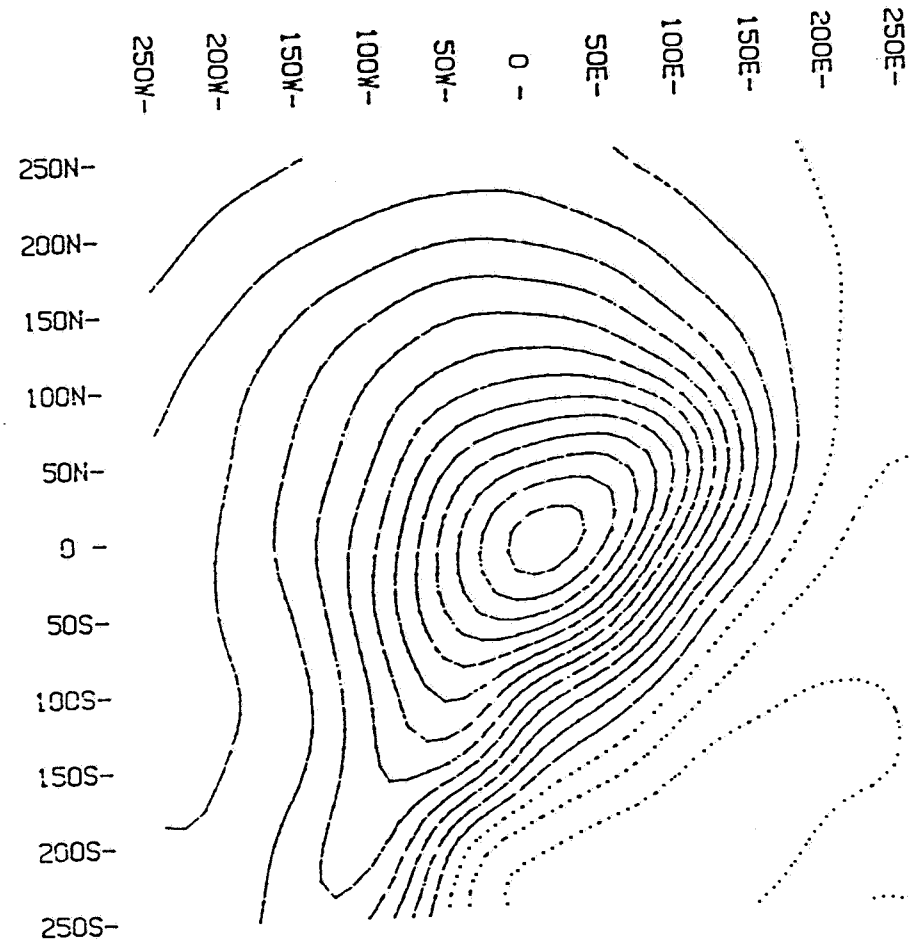
STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)

BARTON 5536-3/W12: H53-9

63W12

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL



LINE/FID.: 1346.2S/6051
CONTOUR INT: 50 nT
REF CONTOUR: 200 nT
SURVEY DATE: 04/07/87
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON 5536-3/W13
63W13

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-
250N-	185	182	198	214	220	222	204	182	159	144	125
200N-	180	212	239	265	286	282	254	218	180	150	131
150N-	210	248	297	343	384	385	355	275	213	157	124
100N-	237	285	342	410	474	504	495	404	251	155	117
50N-	258	299	367	460	604	678	697	559	289	148	103
0 -	272	311	386	508	699	821	753	486	232	113	83
50S-	280	308	370	521	679	724	583	286	130	79	70
100S-	283	298	349	483	567	435	289	141	59	52	58
150S-	287	306	358	459	421	229	129	53	34	37	55
200S-	305	321	392	394	171	69	31	22	30	59	61
250S-	319	334	394	301	96	39	25	33	58	95	97

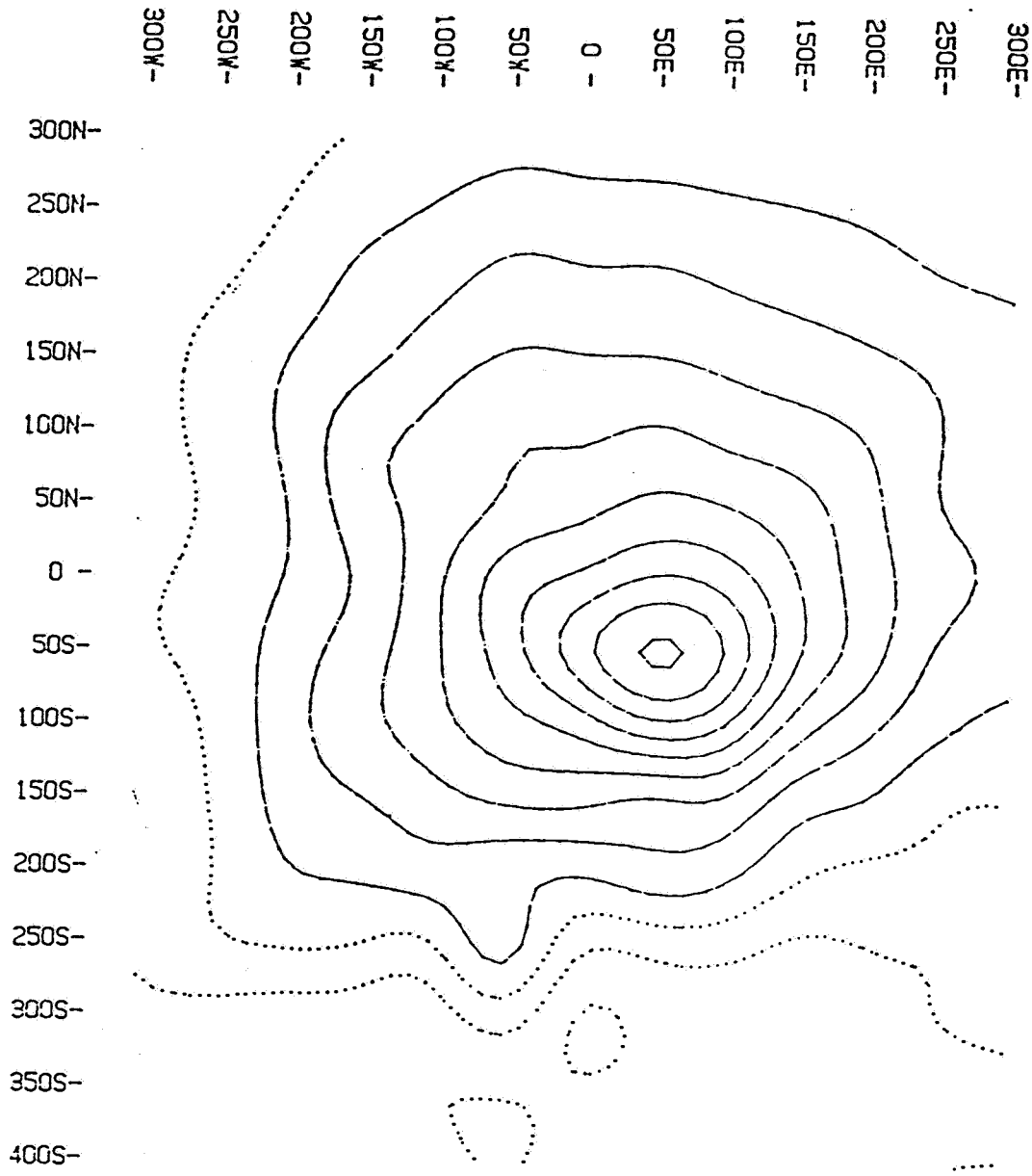
LINE/FID: 1346.2S/6051
DATUM LEVEL: 58350 nT.
DATE OF SURVEY: 04/07/87
OPERATER: EV
SCALE: 1:5000

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5536-3/W13: H53-9
63W13

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



LINE/FID.: 1380.0N/1090
CONTOUR INT: 50 nT
REF CONTOUR: 200 nT
SURVEY DATE: 13/07/87
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON 5536-4/W04
64W04

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

	300W-	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-
300N-	109	117	138	154	170	184	178	178	175	173	167	159	153
250N-	121	131	154	184	205	222	218	216	208	202	193	177	169
200N-	139	147	176	214	238	267	260	260	247	235	226	206	198
150N-	142	161	202	237	276	304	301	300	288	272	257	240	211
100N-	138	165	215	281	310	343	342	355	336	320	294	252	224
50N-	134	158	203	282	313	360	365	411	399	368	315	252	233
0 -	144	164	203	259	335	422	460	504	480	403	325	272	235
50S-	146	168	223	275	340	426	528	607	551	410	329	245	214
100S-	134	159	230	282	331	381	421	486	453	330	264	211	189
150S-	123	153	219	250	292	312	314	300	298	228	200	161	151
200S-	114	150	197	209	229	220	208	230	217	162	139	136	128
250S-	108	143	156	153	148	218	118	118	120	94	99	104	107
300S-	91	89	81	76	70	124	51	60	65	74	84	99	103
350S-	88	80	65	59	51	55	54	57	56	65	76	85	94
400S-	87	80	73	74	74	45	68	66	72	82	88	98	100

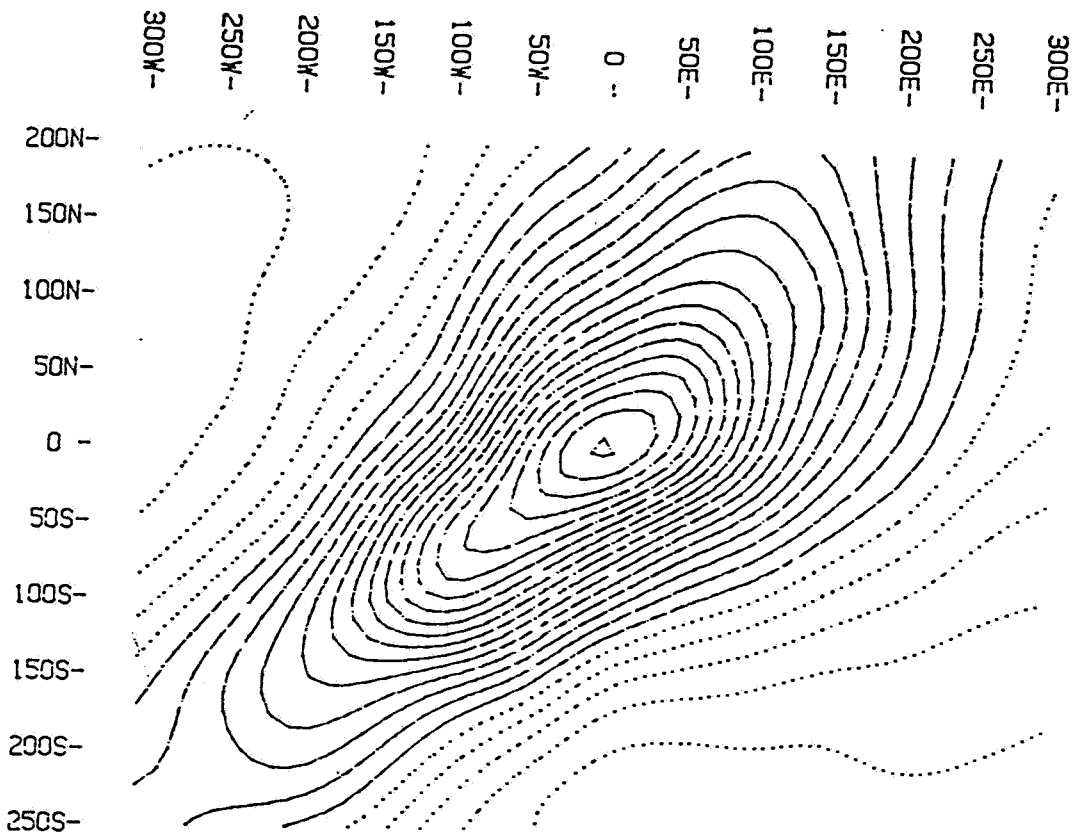
LINE/FID: 1380. ON/1090
DATUM LEVEL: 57900 nT.
DATE OF SURVEY: 13/07/87
OPERATER: MB
SCALE: 1:5000

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5536-4/W04: H53-S
64W04

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	



LINE/FID.: 1350.2S/4701
CONTOUR INT: 50 nT
REF CONTOUR: 300 nT
SURVEY DATE: 03/07/87
SCALE: 1:5000
MAP H53-9

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER CONTOURS
BARTON 5536-4/W15
64W15

Compiled	
Drawn	
Date	
Scale	
Revised	
SEL	

	300W-	250W-	200W-	150W-	100W-	50W-	0 -	50E-	100E-	150E-	200E-	250E-	300E-
200N-	107	101	109	126	172	250	328	434	508	492	407	318	260
150N-	88	87	104	135	213	350	455	583	816	541	407	303	240
100N-	76	90	121	174	291	496	645	744	698	586	420	302	231
50N-	79	89	157	238	389	708	912	955	747	545	393	278	217
0 -	75	116	196	346	593	944	1106	955	678	456	329	232	180
50S-	104	172	291	541	850	933	801	593	440	311	220	162	131
100S-	175	283	439	649	790	643	440	307	238	177	139	110	95
150S-	268	380	485	511	443	324	177	127	103	87	84	71	61
200S-	331	378	423	360	234	124	52	37	42	43	53	49	44
250S-	360	341	297	229	122	59	22	17	23	31	30	35	41

LINE/FID: 1350.2S/4701
DATUM LEVEL: 58180 nT.
DATE OF SURVEY: 03/07/87
OPERATER: MB
SCALE: 1:5000

N

STOCKDALE PROSPECTING LIMITED

MAGNETOMETER DATA (nT.)
BARTON 5536-4/W15: H53-64W15

Compiled	
Drawn	
Date	
Scale	
Revised	
	SEL

ENV 8562

APPENDIX VII

18th Quarter to 2 December, 1987

Drilling results

magnetic profiles indicate a diameter of about 600m. The anomaly has an amplitude on the ground of 500 gammas and the estimated depth to source is 70m.

The first drill hole was sited on the centre of the anomaly at 100E/0N, but this collapsed after 24 metres and a second hole was drilled 10 metres north. Hard basement of dark grey medium-grained quartz/biotite gneiss was reached at 62 metres. The susceptibility of this rock is low, ranging up to 200 x 10^{-5} SI units in the last sample, but it is still considered to be the source of the magnetic anomaly. The anomaly is large and unlikely to be missed. The down hole magnetometer data are erratic, problems with wet contacts were not recognised at this point, but they indicate that the drill was sited over the source of the anomaly.

5436-4/W15

The anomaly is arcuate in plan, opening to the north and has two separate peaks. The southernmost of these was drilled. It has a diameter of about 400m and an amplitude on the ground of 300 gammas. The estimated depth to source is 100m.

The drill hole was sited at 0W/15S and went to a total depth of 88m. The hole passed through lignite from 24 metres to 36m and clays thereafter to 87m at which point hard basement was reached. The clays derived from weathering of the basement (46 - 87m) looked encouraging, they were green and quartz poor, so a one metre run of core was cut with a tungsten carbide bit from 87 - 88m. Most of the core was broken and weathered, but one unweathered kernel had a susceptibility of 5000 x 10^{-5} SI units. The rock is medium-grained, weakly foliated, composed mainly of plagioclase and hornblende, and has been called an amphibolite. This is considered to be the cause of the magnetic anomaly.

5436-4/W19

The magnetic anomaly is complex and elongate to the northeast. Its longest axis is at least 600m and it is about 250m wide. There are five separate peaks and the central and most intense of these was drilled. The anomaly has an amplitude of 316 gammas on the ground and the estimated depth to source is about 50m.

The drill hole was sited at 150E/75N in the centre of the central peak. It intersected a highly weathered and altered ultramafic rock at 22m but passed from it into granitic gneiss at 42m. After petrographic examination the rock was described as an ultramafic which has been altered mainly to chlorite and other fibrous textured mafic minerals. Remnants of pyroxene and olivine were noted. The rock has a magnetic susceptibility ranging up to 2000 x 10^{-5} SI units and this is considered sufficient to have caused the

observed magnetic anomaly.

The shape of the magnetic anomaly and the geometry of the body in the drill hole suggests that it is a dyke, but no impression of a dip direction is gained by examining the magnetic data.

A single Cat 1 spinel was recovered from sample X2805 which represents the interval 32 - 34 metres, but this is not considered to be worth further drilling since it is not unusual for ultramafics to carry low category spinels.

5536-1/E10 x

The magnetic anomaly is subcircular and has a diameter of 350m. It has an amplitude on the ground of 2000 gammas and the estimated depth to the magnetic source is 16 metres.

A single hole was drilled into the anomaly at 0W/50S, 50 metres south of the peak. The hole intersected micaceous clays derived from the weathering of basement at 6m and reached relatively unweathered basement at 42m. This rock is very soft and black and composed almost entirely of chlorite and amphibole. Three metres of core was cut from 58 metres to 61 metres with a tungsten carbide bite. After petrographic examination the rock was desxcribed as an ultramafic igneous rock such as a pyroxenite or peridotite which has been subjected to alteration producing amphibole and brown chlorite. The rock has a susceptibility of 6000 x 10^{-5} SI units.

The cause of the magnetic anomaly is interpreted as a small ultramafic plug which intruded the metamorphic basement stratigraphy and was subsequently altered.

5536-1/W05 x

The magnetic anomaly is irregular and lobate with two, and perhaps three, separate peaks. It has an average width of about 250m and an amplitude on the ground of 360 gammas. The depth to the magnetic source is estimated to be less than 50 metres.

This anomaly was of special interest because abundant Cat 1 spinels had been recovered from loam samples collected across the anomaly. Two holes were drilled.

The first was sited at 600W/50S, about 50 metres south of the southernmost peak. This hole intersected clay and quartz/biotite gneiss to a depth of 42 metres, at which point it passed into the weathered section of a black, highly silicified magnetic rock. An attempt was made to core unweathered material but the ground was far too broken and only one 4-5 centimetre fragment was recovered. After petrographic examination this sample was described as a schistose rock which had been subjected to pervasive silicification. The presence of an unusual green biotite and abundant finely divided opaques suggested that the original rock was a mafic or ultramafic igneous rock. The presence of low category spinels throughout the hole bears out this suggestion.

The second hole was sited 30 metres north of the first and encountered a similar section except that the magnetic source was overlain by a thicker interval of hard, unweathered quartz biotite gneiss. The hole was drilled to obtain a better section of core from deeper into the rock, but this attempt, from 68 - 71m also failed and no sample

at all was obtained. Low category spinels were also recovered from the entire section of this hole.

Some of the drill cuttings from this hole appeared less silicified than those from the first and a few were selected for petrographic examination. These cuttings were identified as serpentinite. The serpentine forms a fibrous textured mosaic comprised mainly of granular pseudomorphs after original olivine and possibly some pyroxene crystals. About 4% chromite is disseminated through the rock as well as magnetite, chlorite and carbonate.

At the date of this report, seven spinels have been probed and of these one is a Cat 4, two are of Cat 2 and four are of Cat 1. The spinels were recovered from the entire sections of both holes, but this is probably due to contamination from the surface. Wet samples were left in pits to drain and surface material containing spinels was incorporated into them when they were finally bagged.

In both drill holes the serpentinised and silicified ultramafic rock is capped by a variable thickness of gneiss overlain by clay, yet spinels have been recovered at the surface. The ultramafic body must therefore outcrop in order to shed spinels into the soil profile. The magnetic anomaly has at least three peaks and it seems likely that one of the two which were not drilled represents the outcropping portion of the body.

The source of the magnetic anomaly is interpreted as a highly silicified serpentinite plug probably derived from a peridotite.

5536-1/W06 x

The magnetic anomaly is elliptical with its long axis trending east-northeast. It is 600 metres long and 350 metres wide and has an amplitude on the ground of 170 gammas. The depth to the source of the anomaly is estimated to be 50 metres.

The drill hole was sited near the centre of the anomaly at 300W/0S. The hole reached hard gneissic basement at 14 metres and was continued with the hammer to 32 metres without intersecting a source for the magnetic anomaly.

The estimated depth to the source of the anomaly is 50 metres and basement was intersected at 14 metres, therefore the source of the anomaly is interpreted to be an unexposed magnetic unit lying wholly within the metamorphic basement stratigraphy and not a kimberlite.

5536-2/E01 x

The magnetic anomaly is elongate with two peaks trending east-west. It is about 300 metres across its shortest

dimension and has an amplitude on the ground of 400 gammas. The depth to the magnetic source is estimated to be 15 metres.

The drill hole was sited in the centre of the western peak, at 0W/0N. It reached hard basement at 26 metres and 0.5 metres of core was cut at the bottom of the hole from 30 to 30.5 metres. After petrographic examination this mottled pale-green to tan, fine-grained rock was termed a skarn to emphasize its probable metasomatic origin. It is composed of epidote, chlorite, quartz and plagioclase, and it is suggested that the original rock was a mesocratic igneous rock such as a quartz diorite. Magnetic susceptibilities range up to 400 x 10^{-3} SI units.

The shape of the magnetic anomaly suggests that it is caused by a plug like body and the source is interpreted as a small plug of intermediate igneous rock which intruded the meta-morphic basement stratigraphy and was subsequently pervasively altered.

5536-3/W12 x

The magnetic anomaly is elongate to the northeast and has at least two peaks. It is over 600 metres long and 300 metres wide and has an amplitude on the ground of 1000 gammas. The depth to the magnetic source is estimated to be less than 30 metres.

The drill hole was sited at the centre of the easternmost peak, at 0W/0N. The hole reached hard basement at 30 metres and this consisted of dark grey, medium to coarse-grained gneiss. Magnetic susceptibilities ranged up to 1000 x 10^{-3} SI units.

The cause of the magnetic anomaly is interpreted to be an elongate magnetic gneissic unit within the metamorphic basement stratigraphy.

5536-3/W13 x

The magnetic anomaly is subcircular with a lobe extending to the southwest. The anomaly has a diameter of 400 metres and an amplitude on the ground of 770 gammas. The depth to the magnetic source is estimated to be about 90 metres.

The drill hole was sited 50 metres south of the magnetic peak at 0W/50S. It reached hard basement at 43 metres which consisted of a medium-grained amphibolite/gneiss composed mainly of hornblende, plagioclase and quartz. Magnetic susceptibilities ranged up to 2000 x 10^{-3} SI units.

The rock appears similar to that at 5336-1/E10 though with the addition of some quartz. The cause of the magnetic anomaly is interpreted to be a small, subvertical,

lenticular body of amphibolitic rock within the metamorphic basement stratigraphy.

5536-4/W04 x

The magnetic anomaly is subcircular with a diameter of 500 metres. It has an amplitude on the ground of 540 gammas and the estimated depth to the magnetic source is 70 metres.

Two holes were drilled into this anomaly and neither intersected a magnetic source. The first was sited in the centre of the anomaly, at 70E/50S and it intersected hard, gneissic basement at 44 metres. The hole was abandoned at 54 metres. At this point in the programme the down hole magnetometer was not functional so no downhole survey could be carried out to determine if the source of the anomaly lay deeper in the basement. A second hole was drilled 50 metres to the south, at 50E/100S, but this met with the same result. Hard gneissic basement was reached at 44m and the hole was abandoned at 48m. By this time the problem with the downhole magnetometer had been identified and fixed, and the downhole survey indicated that the source of the magnetic anomaly lay deeper in the basement and thus was not likely to be kimberlite.

5536-4/W05 x

The magnetic anomaly is elliptical with its long axis trending northeast. It is about 400 metres long and 250 metres wide and has an amplitude on the ground of 150 gammas. The depth to the magnetic source is estimated to be 60 metres.

Two holes were drilled into this anomaly and neither intersected a rock with a magnetic susceptibility high enough to have caused the observed magnetic anomaly. The first hole was sited at 25W/0N and it reached hard basement at 68 metres. The rock was a dark grey, medium-grained amphibolite which had a maximum susceptibility of only 60×10^{-5} SI units. The second hole was sited closer to the peak of the anomaly at 50E/50N and it achieved a similar result. It reached hard basement of the same rock at 66 metres and the maximum susceptibility recorded here was 150×10^{-5} SI units.

After petrographic examination the rock was described as an amphibolite which probably represented the metamorphosed equivalent of a basic intrusive. The cause of the magnetic anomaly is interpreted as such. Downhole magnetic data indicates that the magnetic source lies deeper in the basement. This suggests that either the amphibolite is variably magnetic or that the magnetite in the upper portion of the rock has been destroyed by weathering.

5536-4/W15 ✓

The magnetic anomaly is elongate and trends to the northeast. It is over 600 metres long and 300 metres wide. The anomaly has an amplitude on the ground of 884 gammas and the estimated depth to the magnetic source is 70 metres.

The drill hole was sited in the centre of the anomaly at 0W/0N. It intersected weathered basement of clay with haematitic fragments at 38 metres and this became gradually more magnetic with depth. Hard basement of weathered banded iron formation was reached at 62 metres. A maximum susceptibility of 10000 x 10^{-5} SI units was measured at 62 metres.

The cause of the magnetic anomaly is interpreted to be an elongate, sub vertical unit of banded iron formation, lying within the metamorphic basement stratigraphy.

5537-2/E05

The anomaly is elongate and trends to the northwest. It is 600 metres long and 250 metres wide and has an amplitude on the ground of 675 gammas. The depth to the magnetic source is estimated to be 25 metres.

The drill hole was sited at 25W/70S, about 20 metres northeast of the magnetic peak. It reached hard basement of dark grey-green, fine grained amphibolite at 62 metres, well beyond the estimated depth to the target. The susceptibility of this rock ranged up to only 70 x 10^{-5} SI units. Downhole magnetics data suggests that the magnetic source lies in the clays overlying the hard basement although this is not seen in the magnetic susceptibility data.

The elongate shape of the magnetic anomaly and the indication of a steep dip to the southwest suggest that the source is a magnetic unit within the metamorphic basement stratigraphy. Given the location of the drill hole it seems unlikely that the target could have been missed and therefore it is probably amphibolite despite the fact that the samples recovered from this hole were only poorly magnetic.

5537-2/W02

The anomaly is sub-circular with a diameter of about 175 metres. It has an amplitude on the ground of 2000 gammas and the depth to the magnetic source is estimated to be 30 metres.

The drill hole was sited at 0W/20S. It passed into weathered basement after only 2 metres and reached hard, highly magnetic basement at 40 metres. A short run of core

APPENDIX 2

PETROGRAPHIC REPORTS

PETROGRAPHY OF THREE ROCKS

SAMPLE: X3094: TSC49482 5436-1/E11 50-51m

Rock Name:
Plagioclase-Quartz-Biotite Gneiss

Hand Specimen:
A foliated rock comprised mainly of reddish-brown to pink feldspar intergrown with grey quartz and a mafic mineral which tends to be concentrated in elongate, lenticular bodies defining the foliation direction. Testing with sodium cobaltinitrite after a hydrofluoric acid etch shows that the rock contains very minor potash feldspar as small disseminated grains generally below 2 mm wide.

Thin Section:
This sample consists mainly of a strongly deformed plagioclase and quartz mosaic with a grain size ranging up to about 2 mm. The mosaic exhibits a foliated texture produced by a tendency for the quartz to be concentrated in elongate, lenticular bodies which have a strongly recrystallised and deformed appearance. The foliation is also defined by a concentration of biotite flakes within discontinuous bands and lenses as well as weakly developed preferred orientation of the biotite flakes.

The plagioclase crystals tend to exhibit a polysynthetic twinning although a significant proportion of plagioclase is untwinned. Very minor potash feldspar is present and this is often difficult to distinguish from the untwinned plagioclase. Locally very fine myrmekitic intergrowths of quartz and feldspar are present.

The quartz bodies range up to several millimetres in size and tend to have elongate lenticular shapes. The quartz within these bodies exhibits a strongly deformed and granulated texture with the development of sutured grain margins and undulose, strained extinction. Deformational effects are also present in the feldspar which produces fractured and broken appearing feldspar crystals.

The biotite flakes range up to 0.5 mm in length and have a pleochroic reddish-brown colour. Minor garnet is also disseminated through the rock as xenoblastic crystals up to 1 mm in size. Many of the garnet crystals exhibit marginal replacement by opaque to translucent iron oxides which is believed to be a weathering feature. Opaque to translucent iron oxides also form narrow fracture and vein fillings below 0.1 mm wide.

This is a metamorphic rock of probable amphibolite facies grade which most likely represents a metamorphosed granodiorite or similar plutonic igneous rock. The rock shows moderate evidence of cataclastic deformation producing broken and fractured plagioclase crystals as well as strongly deformed and granulated quartz mosaics.

SAMPLE: X2568: TSC49365 5436-3/E08 66-68m

Rock Name:
Brecciated Feldspathic Gneiss

Hand Specimen:
This sample consists of medium grained, grey coloured chips up to about 1.5 cm in size. Microchemical tests show that the chips generally contain a relatively low but variable proportion of potash feldspar.

Thin Section:
This sample consists of leucocratic, feldspar-rich chips which generally have highly fractured and deformed textures. The chips consist mainly of plagioclase crystals up to several millimetres in size intergrown with varying proportions and smaller amounts of quartz and potash feldspar. At least some of the potash feldspar exhibits well-developed grid iron twinning typical of microcline. All of the chips form a granoblastic textured mosaic with a medium grain size.

All of the chips have highly fractured and brecciated textures being veined with epidote and prehnite. This fracturing and veining is quite variable being very pronounced in some chips and moderately mild in others. The epidote generally forms very finely granular, turbid aggregates although a few larger epidote crystals with pleochroic yellow colours are present. The prehnite generally forms moderately birefringent crystals with a maximum grain size of 0.1 mm. Minor chlorite is also locally present as vein fillings intergrown with the epidote and to a lesser extent with prehnite. The chlorite has a weakly pleochroic green colour and very low, anomalous birefringence.

Minor opaques are disseminated through the rock as small grains and aggregates up to 0.2 mm wide.

This is a high grade feldspar-rich metamorphic rock which has been subjected to intense brecciation and associated veining by epidote and prehnite.

SAMPLE: X2749: TSC49317 5436-4 / W15

87.2m

Rock Name:
Amphibolite

Hand Specimen:
A medium grained rock with a very weakly foliated character comprised of grey feldspar intergrown with a dark green to black mafic mineral.

Thin Section:
This sample consists mainly of a granoblastic plagioclase and hornblende mosaic with a grain size between 0.8 and 3 mm. The plagioclase forms xenoblastic polysynthetically twinned crystals which tend to be concentrated in large polycrystalline areas up to several millimetres in size. The hornblende forms weakly prismatic to xenoblastic crystals which exhibit a vague preferred orientation defining a foliation direction. Most of the hornblende crystals have a pleochroic green to bluish-green colour although a small number of hornblende crystals have a zoned character containing very pale green cores and darker green outer margins. The cores of these hornblende crystals also tend to have fibrous textures.

Although hornblende is the major mafic mineral significant amounts of biotite are disseminated through the rock as pleochroic brown flakes up to 1.5 mm wide. Most of the biotite forms intergrowths with the hornblende.

The plagioclase is very fresh showing only mild alteration to secondary phyllosilicates and finely granular, turbid epidote. Some localised alteration to finely granular carbonate has also occurred. In general the feldspar alteration has proceeded along fractures or cleavage traces.

A small proportion of the hornblende exhibits fine poikiloblastic textures containing small xenoblastic quartz inclusions. Some of the hornblende also contains disseminated opaque inclusions which tend to form lamellar intergrowths. Opaques are also disseminated through the rock as anhedral grains up to 1 mm in size.

This is an amphibolite facies grade metamorphic rock comprised mainly of plagioclase and pleochroic green hornblende.

amdel

SAMPLE: X2808: TSC49367 5436-4 /W19 38-40 m

Rock Name:
Altered Ultramafic Rock

Hand Specimen:
This sample consists of reddish-brown to grey coloured, medium grained chips ranging up to about 1.5 cm in size.

Thin Section:
This sample consists mainly of an ultramafic rock which has been largely replaced by secondary minerals. Some chips consist mainly of a pale green chlorite and translucent, reddish-brown iron stained phyllosilicate intergrown with minor remnant pyroxene and olivine. These chips also contain minor amounts of a pleochroic green amphibole which tends to form fibrous textured crystals.

Some chips in this thin section have been largely silicified and now consist mainly of a granular quartz mosaic. These chips contain minor remnants of chlorite or other secondary mafic minerals but others consist almost exclusively of quartz intergrown with opaque to translucent iron oxides. This quartz generally forms a granular mosaic although locally it forms round radiating, spherulitic textured structures. A small number of chips contain localised areas along which silicification as proceeded. Some chips also exhibit narrow rims of colloform textured opaline silica.

Opaque to translucent iron oxides occur in most of the chips and are very abundant in some chips. These opaques occur as interstitial fillings, staining of secondary phyllosilicates and as lamellar intergrowths with some better developed chlorite flakes.

This is an ultramafic rock which has been largely altered to secondary mafic minerals comprised largely of chlorite and other fibrous textured mafic minerals. Within localised areas strong silicification most likely under weathering conditions has also occurred leaving a few chips which have been almost completely replaced by cherty quartz. Minor opaline silica also occurs as coatings on some chips.

SAMPLE: X3204: TSC49320 5536-1/E10 59.25 m

Rock Name:
Altered Ultramafic Rock

Hand Specimen:
A massive rock with a mottled grey to medium green colour.

Thin Section:
This sample consists mainly of large amphibole crystals up to 4 mm in size intergrown with patches of a translucent brown phyllosilicate. The amphibole crystals tend to be zoned ranging from pleochroic green to bluish-green to essentially colourless areas. Much of the amphibole also tends to have a fibrous appearing texture indicating a secondary origin.

The brown phyllosilicate is most likely a chlorite or clay mineral and at least some forms pseudomorphs after prismatic crystals up to 3 mm long. The shapes and internal textures of some of these pseudomorphs suggests that they could represent completely altered olivine crystals. A similar pale brown phyllosilicate also occurs as irregular patches and vein fillings.

Within some areas of the rock remnants of hypersthene are present as relatively large crystals up to several millimetres in size. These hypersthene crystals are often veined with the brown phyllosilicate or show partial replacement by amphibole. The hypersthene invariably has a weakly pleochroic pale green to pink colour.

Opaques are disseminated through the rock as anhedral grains and aggregates up to 0.5 mm wide.

This is an ultramafic igneous rock such as a pyroxenite or peridotite which has been subjected to alteration producing a secondary amphibole after original pyroxene as well as a brown phyllosilicate which is possibly a chlorite. The rock is probably related to the previously described pyroxenites except it has at least some pseudomorphs after probable olivine crystals indicating it could in fact be an altered peridotite. Remnant hypersthene occurs locally as large, partially altered crystals.

SAMPLE: X3123: TSC49483 5536-1/W05 DH1 57m

Rock Name:
Silicified Schist

Hand Specimen:
This is a dark grey to black rock with a mottled character containing some paler grey to greenish-grey patches up to a few millimetres wide intergrown with a dark grey, finer grained matrix. Microchemical tests failed to detect any potash feldspar. Overall the sample is very hard and can only locally be very weakly scratched with a needle.

Thin Section:
This sample consists of irregular very finely granular turbid aggregates up to several millimetres wide separated by siliceous cherty to chalcedonic veins. The turbid patches consist mainly of very finely granular chert which is intergrown with finely divided opaque material imparting a translucent character to them. Locally these patches contain well-developed flakes up to 0.3 mm long of a pleochroic bluish-green phyllosilicate believed to be an unusual biotite. These patches also contain localised irregular clay patches which tend to have a translucent, reddish-brown colour.

The siliceous veins tend to have a subparallel character which defines a foliation direction suggesting that the original rock had a schistose texture. Most of these siliceous veins consist of very finely granular cherty textured quartz with a maximum grain size of 0.05 mm although within some areas well-developed fibrous, radiating textures typical of chalcedonic quartz are also present.

This is thought to be a schistose rock which has been subjected to pervasive silicification most likely under weathering conditions. Many of the largely silicified clasts contain an unusual green biotite and abundant finely divided opaques suggesting that this could represent a mafic to ultramafic rock which has been subjected to deformational effects producing a schistose texture and subsequent strong silicification.

PETROLOGY OF A SERPENTINITE

SAMPLE: X3173: TSC49557 5536-1/W05 DH2 66-68 m

Rock Name:
Serpentinite

Hand Specimen:
This sample consists of small chips up to about 1 cm in size which have a medium grey colour.

Polished Thin Section:
An optical estimate of the constituents gives the following :

	%
Serpentine	90
Chromite	4
Magnetite	2
Chlorite	2
Carbonate	2
Talc	Tr
Unidentified sulphide	Tr

This sample consists mainly of serpentine which forms a fibrous textured mosaic comprised mainly of granular pseudomorphs after original olivine and possibly some pyroxene crystals.

Chromite is disseminated through the rock as anhedral crystals up to 0.4 mm in size which are of primary origin. The rock also contains moderate amounts of magnetite as narrow vein-like structures located between what are most likely original mafic mineral grains. This magnetite is of secondary origin and appears to have developed along grain margins and fractures or cleavage traces in original mineral grains. In a very small number of cases very fine magnetite lamellae form subparallel intergrowths with serpentine believed to represent remnant linings along cleavage traces of an original pyroxene mineral.

The rock contains disseminated chlorite flakes up to 0.4 mm long. Much of this chlorite has a bright green to bluish-green pleochroic colour similar to the pleochroic scheme of the unusual biotite in sample X3123. In this sample this pleochroic phyllosilicate lacks the birefringence of the similar phyllosilicate in sample X3123 and is therefore considered to be a chlorite. Within localised areas this chlorite marginally surrounds a colourless, birefringent phyllosilicate which is most likely talc.

Minor carbonate is also disseminated through the rock as very finely granular, turbid aggregates intergrown with the chlorite.

Traces of an unidentified sulphide forms disseminated grains which are typically below 0.05 mm in size. This sulphide has a very creamy, white colour and would require electron probe analysis for further identification. This sulphide occurs both disseminated through the serpentine and as intergrowths with magnetite.

This is a serpentinite representing a completely altered ultramafic rock. The sample retains the granular texture of the original ultramafic rock although the original minerals have been completely replaced by serpentine. Unlike sample X3123 this sample lacks any foliated texture and also contains no quartz.

amdel

SAMPLE: X3068: TSC49319 5536-2/E01

30.1 m

Rock Name:
Epidote-Chlorite-Quartz-Plagioclase Skarn

Hand Specimen:
A fine-grained rock with a very finely mottled pale green to tan colour. Testing with dilute hydrochloric acid failed to produce any reaction indicating calcite is not present.

Thin Section:
This sample consists mainly of a finely granular intergrowth of epidote, quartz, plagioclase and chlorite. The plagioclase tends to form vague lath-shaped crystals up to 0.5 mm long which exhibit polysynthetic twinning. Both the epidote and quartz tends to form xenomorphic crystals. The chlorite is a pale green weakly pleochroic variety with a very low birefringence and tends to form flakes and flaky aggregates up to 0.3 mm long. The quartz tends to form irregular aggregates which occur interstitially between the plagioclase laths.

Carbonate is disseminated through the rock as finely granular aggregates up to 0.3 mm in size. Testing of the hand specimen indicates that calcite is not present suggesting that the carbonate is dolomite. Minor finely divided sericite is locally present as fine intergrowths with some plagioclase.

The epidote forms xenomorphic crystals ranging up to 0.3 mm in size which have high birefringence and a weakly pleochroic, pale yellow colour.

Opaques are disseminated through the rock as anhedral grains and aggregates up to 0.2 mm wide.

This rock has been termed a skarn to emphasize its retrograde and probable metasomatic origin as indicated by the presence of chlorite and epidote. The feldspar and quartz forms an intergrowth with a vague igneous appearing character suggesting that the original rock could have been a mesocratic intrusive rock such as a quartz diorite.

SAMPLE: X2992: TSC49368 5536-4/W05 72-74m

Rock Name:
Amphibolite

Hand Specimen:
This sample consists of small chips up to about 1 cm in size of a medium grained rock comprised of a dark grey mafic mineral intergrown with pale tan coloured felsic minerals. Microchemical tests show that some of the chips contain small amounts of intergrown potash feldspar but most chips contain little if any potash feldpsar.

Thin Section:
In thin section all of the chips have a very similar lithology being comprised of plagioclase and hornblende mosaics. The plagioclase tends to form weakly prismatic crystals up to 1 mm in size while the hornblende tends to form somewhat elongate crystals with a similar grain size. A very vague foliation is defined by a weakly developed preferred orientation of the hornblende crystals. In addition to the hornblende biotite is also present as well-developed flakes up to 1 mm in length which have a pleochroic brown colour and also exhibit a weakly foliated character. The porportions of biotite in different chips are quite variable with some chips containing only very minor biotite and other chips containing a relatively high proportion of biotite ranging up to possibly 15% of the chip.

Minor quartz and potash feldspar are locally intergrown with the plagioclase as xenomorphic crystals which rarely exceed 0.5 mm in size. The quartz is locally concentrated within larger polycrystalline quartz aggregates.

The plagioclase shows some alteration to finely divided sericite/clay particularly along fractures or within the cores of large zoned plagioclase crystals. Epidote is disseminated through the rock as subidiomorphic crystals and xenomorphic grains ranging up to 1 mm in size. These epidote crystals generally have high birefringence and could also represent an alteration product of plagioclase. Minor very finely granular turbid epidote is locally intergrown with the plagioclase. The biotite locally shows incipient alteration to a pleochroic green chlorite with anomalous interference colours.

Accessory sphene is disseminated through the rock as small crystals up to 0.5 mm in size. Opaques form anhedral disseminated grains and aggregates as well as linings along narrow fractures or cleavage traces in mafic minerals.

This is an amphibolite facies grade metamorphic rock comprised mainly of plagioclase and amphibole which most likely represents a metamorphosed basic igneous rock.

SAMPLE: X2642: TSC49366 5536-4/W15 66-68m

Rock Name:
Banded Iron Formation

Hand Specimen:
This sample consists of small chips up to about 1 cm in size which have a medium grain size and a reddish-brown to grey colour.

Thin Section:
This sample consists mainly of graular quartz and iron oxide-rich chips which have a strongly recrystallised and foliated texture. Some chips consist mainly of intensely deformed quartz mosaics with narrow opaque lamellae of iron oxides defining a foliation direction. Other chips consist mainly of opaque material intergrown with smaller amounts of quartz and biotite. Some of these chips also have a well-developed lepidoblastic foliation defined by the biotite flakes. A third chip consists mainly of pleochroic bluish-green hornblende intergrown with interstitial opaques. Some chips contain very abundant opaque to translucent iron oxides intergrown with minor phyllosilicates.

The biotite in this sample exhibits a pleochroic brown to greenish-brown colour and generally has a somewhat fibrous, degraded appearing texture. Some chips contain a fibrous greenish coloured phyllosilicate which could also be an unusual biotite. One or two chips contain a colourless birefringent mica as very fine, fibrous flakes which is probably a muscovite or sericite.

This sample consists of an amphibolite facies grade metamorphic rock comprised mainly of quartz and opaque to translucent reddish-brown iron oxides although localised concentrations of biotite or amphibole are also present. The iron oxide and quartz-rich nature of this sample suggests it is a banded iron formation.

APPENDIX 3

DETAILED DRILL LOGS, MAGNETIC SUSCEPTIBILITY AND DOWNHOLE MAGNETIC DATA

NOTES TO ACCOMPANY DRILL LOGS

Two types of drill log are presented in the appendix.

The Detailed Drill Log is a sample by sample description of the material recovered from the drilling rig. No interpretation has been made in this log. Magnetic susceptibility data and sample number are included against the entry for each sample.

The Summary Drill Log is an attempt to present the important information derived from the Detailed Log in a more easily readable form. The lithological information is summarised in a graphic log and brief field description of the major units intersected by the hole. The units have been assigned to four principal formations based on the following criteria:

Pulham Sand Equivalent (Qrs)

- Aeolian reddish, fine-grained quartz sand forming dunes and spreads of the Great Victoria Desert. Calcrete is often present close to the surface.

Silcrete Land Surface (Tsi)

- Pale grey and pink silcrete of duricrust profile. This unit is generally intersected below the Pulham Sand Equivalent but is differentiated from the Tertiary sands of the Pidinga Formation only where it is well developed.

Pidinga Formation Equivalent (Tep)

- Generally fine-grained, well sorted, clean quartz sands overlying white and cream clays and sometimes lignite. The sands are usually white and pale yellow in the upper section and maroon and iron rich in the basal section.

Cleve Metamorphics (pBcm)

- Gneiss, amphibolite and banded iron formation which form the hard basement. Glenloth Gneissic Granite Equivalent (pBgr) has also been noted in the basement. Other basement intersections of altered ultra-mafic intrusives have not been attributed to a formation.

The distinction made between what is clay belonging to the Pidinga Formation and what is weathered basement is an arbitrary one. RAB drilling with fluid injection emulsifies clay samples to such an extent that no texture, either sedimentary or relict crystalline can be discerned. The identification of basement clays is made only on the basis of the presence of angular quartz, mica or remnants of basement rock within the clay. Similarly if these are absent then the clays are assigned to the Pidinga Formation.

Typical magnetic susceptibility measurements are included in the Summary Log.

STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA / BARTON AREA BARTON Drillhole type RAB / HAMMER

CO-ORDS 582 210 (150S / 50W LOCAL) DEC^LN 90° AZIMUTH – RL – DH No. 5436-4 / E16 DH1

DATE COMMENCED 22.7.87 DATE COMPLETED 22.7.87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 56m HQ Core to: – NQ Core to: – BQ Core to: – EOH 56m

FROM	k (av)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	20-30				X2813	
2						
4						
6	10-15		Qrs	0-11m Red-brown and yellow-brown, fine-grained, aeolian quartz sand and silt.		
8						
10						
12				11-32m White to yellow-brown, fine-grained, well sorted, quartz sand. Minor silicification at top of interval.		
14						
16	<5					
18						
20						
22						
24						
26						
28						
30						
32	<5		Tep	32-42m Maroon and red-brown, fine-grained, well sorted, quartz sand.		
34						
36						
38						
40						
42				42-48m Light brown clay.		
44	10					
46						
48				48-52m Grey and brown micaceous clay with imbedded quartz		
50	10-15					
52			pfcm	52-56m Medium to coarse-grained quartz / feldspar / biotite gneiss.		
54	20-30					
56				END OF HOLE AT 56m	X2840	

SCALE: GEOLOGIST: DATE.

PROJECT TARCOOLA/BARTON
AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/HAMMER
DH No.: 5436-4/E16 DH 1
Page 1 of 4

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
								HOLE: 5436-4/E16 DH 1							
0	2							Red-brown, fine-grained quartz sand and silt.	0	2	X2813			20-30	
2	4							Yellow-brown, fine-grained quartz sand and silt.	2	4	X2814			10-15	
4	6							As above	4	6	X2815			5-10	
6	8							As above	6	8	X2816			10-15	
8	10							Yellow-brown, fine-grained quartz sand and silt with minor 2-3cm fragments of silcrete	8	10	X2817			5-10	
10	12							Mid brown, fine-grained quartz sand with minor silcrete	10	12	X2818			5-10	

340

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/E16 DH 1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATIONS	XRAMONEX	DISCEPT	XENSITY
														$\times 10^{-5}$ SI	
12	14							Cream - off white, medium - grained, clean, well sorted quartz sand	12	14	X2819			5-10	
14	16							As above	14	16	X2820			<5	
16	18							As above	16	18	X2821			<5	
18	20							Fine - grained, cream, well sorted quartz sand	18	20	X2822			<5	
20	22							As above	20	22	X2823			<5	
22	24							Mustard yellow, fine - grained, well sorted quartz sand	22	24	X2824			5-10	
24	26							As above	24	26	X2825			<5	
26	28							Tan, fine - grained, well sorted quartz sand	26	28	X2826			<5	
28	30							As above	28	30	X2827			<5	
30	32							As above	30	32	X2828			10-15	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/E16 DH1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
32	34							Maroon and brown, fine-grained, well sorted quartz sand
34	36							As above
36	38							As above
38	40							Red-brown, fine-grained, clean well sorted quartz sand
40	42							As above
42	44							Light brown to cream clay and silt with minor quartz sand
44	46							Light brown clay with some white kaolinitic fragments
46	48							As above
48	50							Light blue-grey clay with quartz and chlorite common

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATIONS	EXAMINER	SUSCEPT	DENSITY		
					$\times 10^{-5}$ SI			
32	34	X2829			5-10			
34	36	X2830			5-10			
36	38	X2831			5-10			
38	40	X2832			<5			
40	42	X2833			5-10			
42	44	X2834			10			
44	46	X2835			10			
46	48	X2836			10			
48	50	X2837			10			

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/E16 DH 1

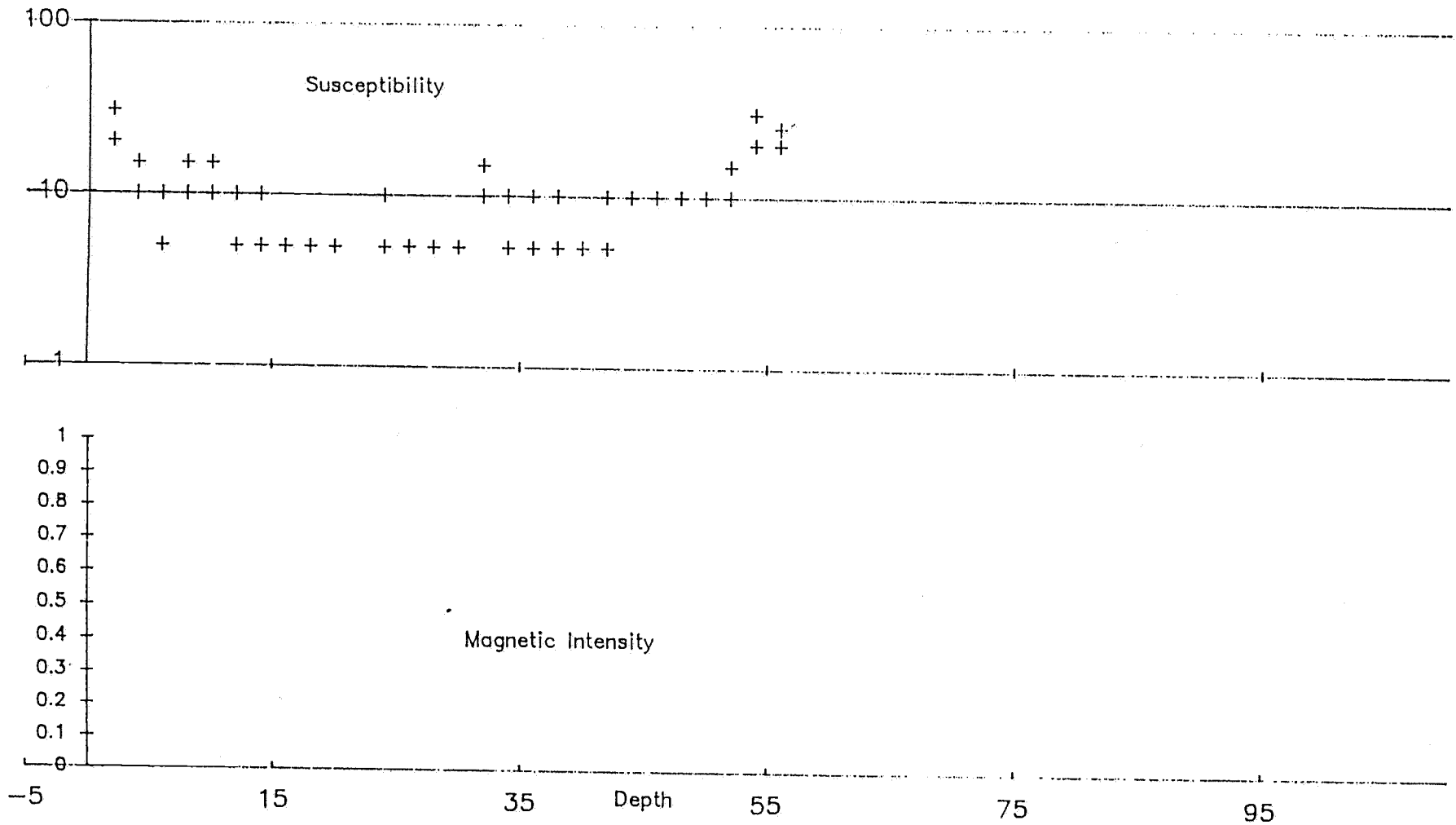
DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
50	52							Cream-brown clay with quartz and biotite common-
52	54							Medium to coarse-grained quartz/feldspar/biotite gneiss
54	56							As above
								END OF HOLE AT 56 m

ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	MAGNETIC	SUSCEPT	DENSITY		
					$\times 10^{-5}$ SI			
50	52	X2838			10-15			
52	54	X2839			20-30			
54	56	X2840			20-25			

B43

BARTON – 54364E16 DH1

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STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA / BARTON AREA BARTON Drillhole type RAB

CO-ORDS 582 210 (75W/110S LOCAL) DEC^{LN} 90° AZIMUTH — RL — DH No. S436-4/E16 DH2

DATE COMMENCED 22-7-87 DATE COMPLETED 22-7-87 DRILLED BY THOMPSON DRILLING LTD DRILL RIG T1000

Non Coring to: 40 m HQ Core to: — NQ Core to: — BQ Core to: — EOH 40 m

FROM	K (cps)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	20-30				X2841	
2				0-10m Red brown in upper 2m, yellow brown below, fine-grained, aeolian quartz sand and silt.		
4	10-15		Qrs			
6						
8						
10						
12				10-30m Off white, medium-grained, well sorted, clean, quartz sand.		
14	<5					
16						
18						
20						
22						
24			Tap			
26						
28						
30	5-10			30-40m Maroon and brown, fine-grained, well sorted quartz sand.		
32						
34						
36						
38	<5					
40				END OF HOLE AT 40m (COLLAPSED OVERNIGHT)	X2860	

PROJECT TARCOOLA/BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE RAB

DH No. 5436-4/E16 DH2

Page 1 of 2

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
								HOLE : 5436-4/E16 DH2
0	2							0-2m Red-brown, fine-grained, quartz sand and silt
2	4							
4	6							2-10m Yellow-brown, fine-grained quartz sand and silt
6	8							
8	10							
10	12							10-30m Cream - off white, medium -grained, well sorted, clean quartz sand.
12	14							
14	16							
16	18							
18	20							
20	22							
22	24							
24	26							
26	28							
28	30							

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
0	2	X2841			20-30	
2	4	X2842			10-15	
4	6	X2843			10-15	
6	8	X2844			5-10	
8	10	X2845			5-10	
10	12	X2846			5	
12	14	X2847			<5	
14	16	X2848			<5	
16	18	X2849			<5	
18	20	X2850			<5	
20	22	X2851			10-15	
22	24	X2852			5-10	
24	26	X2853			5-10	
26	28	X2854			5-10	
28	30	X2855			5-10	

346

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB

DH No.: 5436-4/E16 DH2

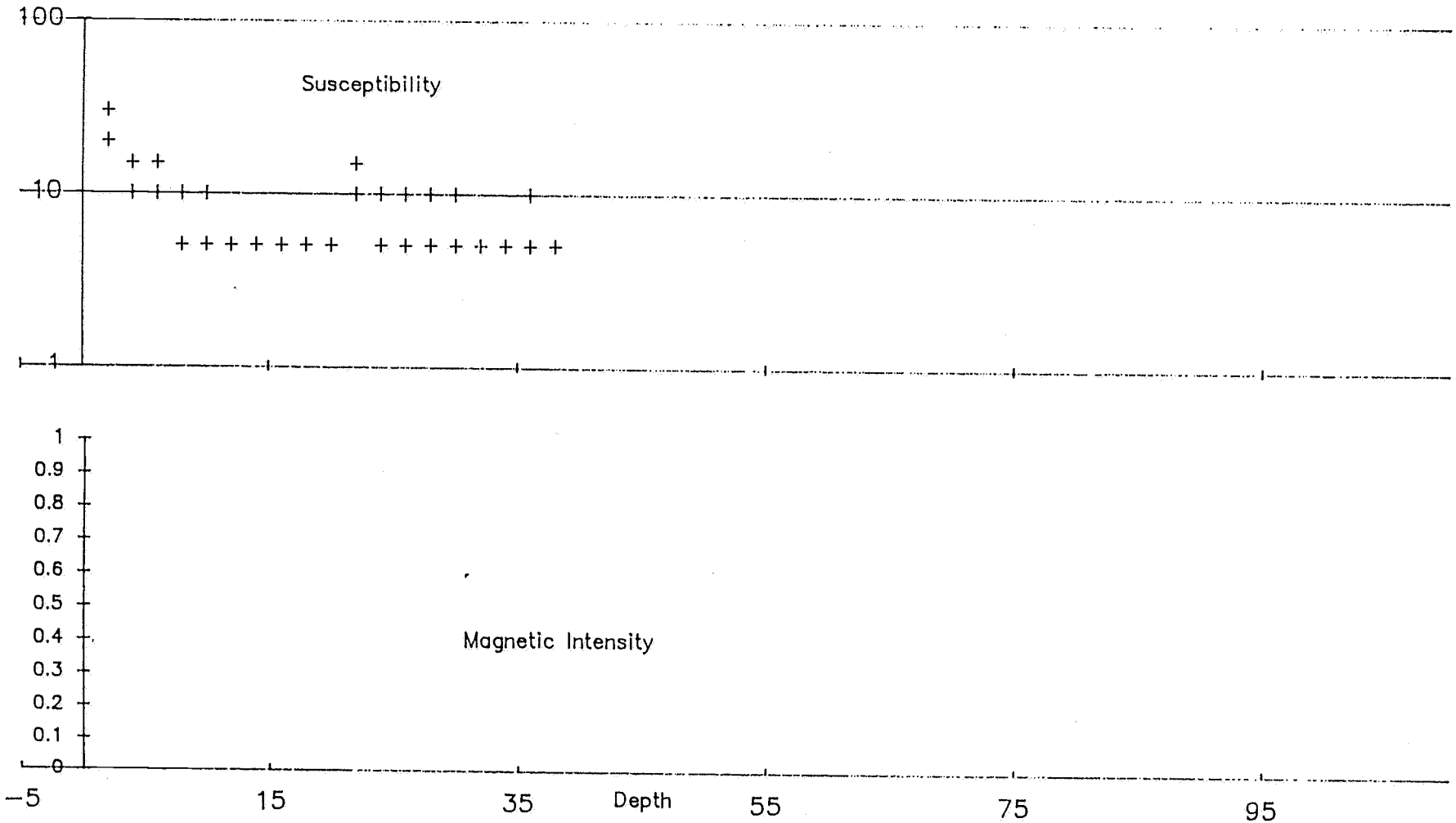
DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
30	32							30-40m Maroon and brown, fine-grained, well sorted quartz sand.
32	34							
34	36							
36	38							
38	40							
								END OF HOLE AT 40m (HOLE COLLAPSED OVERNIGHT)

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
30	32	X2856			<5	
32	34	X2857			<5	
34	36	X2858			5-10	
36	38	X2859			5	
38	40	X2860			<5	

BARTON – 54364E16 DH2

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STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA/BARTON AREA BARTON Drillhole type RAB/HAMMER

CO-ORDS 582 210 (75W/120S) DEC^LN 90° AZIMUTH — RL — DH No. 5436-4/E16 DH3

DATE COMMENCED 23.7.87 DATE COMPLETED 23.7.87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 66 m HQ Core to: — NQ Core to: — BQ Core to: — EOH 66 m

FROM				FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	20-25			0-10 m Upper 2m red-brown, yellow-brown below, fine-grained, aeolian, quartz sand and silt.	X2861	
2						
4			Qrs			
6						
8	15-20					
10				10-30 m Off white, medium-grained, well sorted, clean, quartz sand.		
12	5-10					
14						
16						
18						
20						
22						
24			Tep			
26						
28						
30				30-40 m Maroon and brown, fine-grained, well sorted, quartz sand.		
32	5-10					
34						
36						
38						
40				40-48 m Yellow clay with abundant quartz and haematitic fragments.		
42	15-20					
44						
46						
48				48-62 m Grey clay with minor haematitic fragments.		
50						
52						
54			pEmc			
56						
58	15-20					
60						
62				62-66 m Quartz/orthoclase/biotite/hornblende grains		
64						
66	150-200				X2893	
				END OF HOLE AT 66 m		

SCALE: GEOLOGIST: DATE:

PROJECT TARCOOLA/BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/HAMMER

DH No: 5436-4/E16 DH3

DEPTH from	DEPTH to	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
								HOLE: 5436-4/E16 DH3
								For log of 0-40 m see DH2
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							

ANALYTICAL DATA

DEPTH from	DEPTH to	SAMPLE No.	INDICATORS	EXAMINED	SUSCEPT	DENSITY		
					$\times 10^{-5}$ SI			
0	2	X2861			20-25			
2	4	X2862			5-10			
4	6	X2863			15-20			
6	8	X2864			15-20			
8	10	X2865			15-20			
10	12	X2866			5-15			
12	14	X2867			5-10			
14	16	X2868			10-15			
16	18	X2869			5-10			
18	20	X2870			5-10			
20	22	X2871			5-10			
22	24	X2872			15-20			
24	26	X2873			10-15			
26	28	X2874			5			
28	30	X2875			5			
30	32	X2876			5			
32	34	X2877			5-10			

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/E16 DH 3

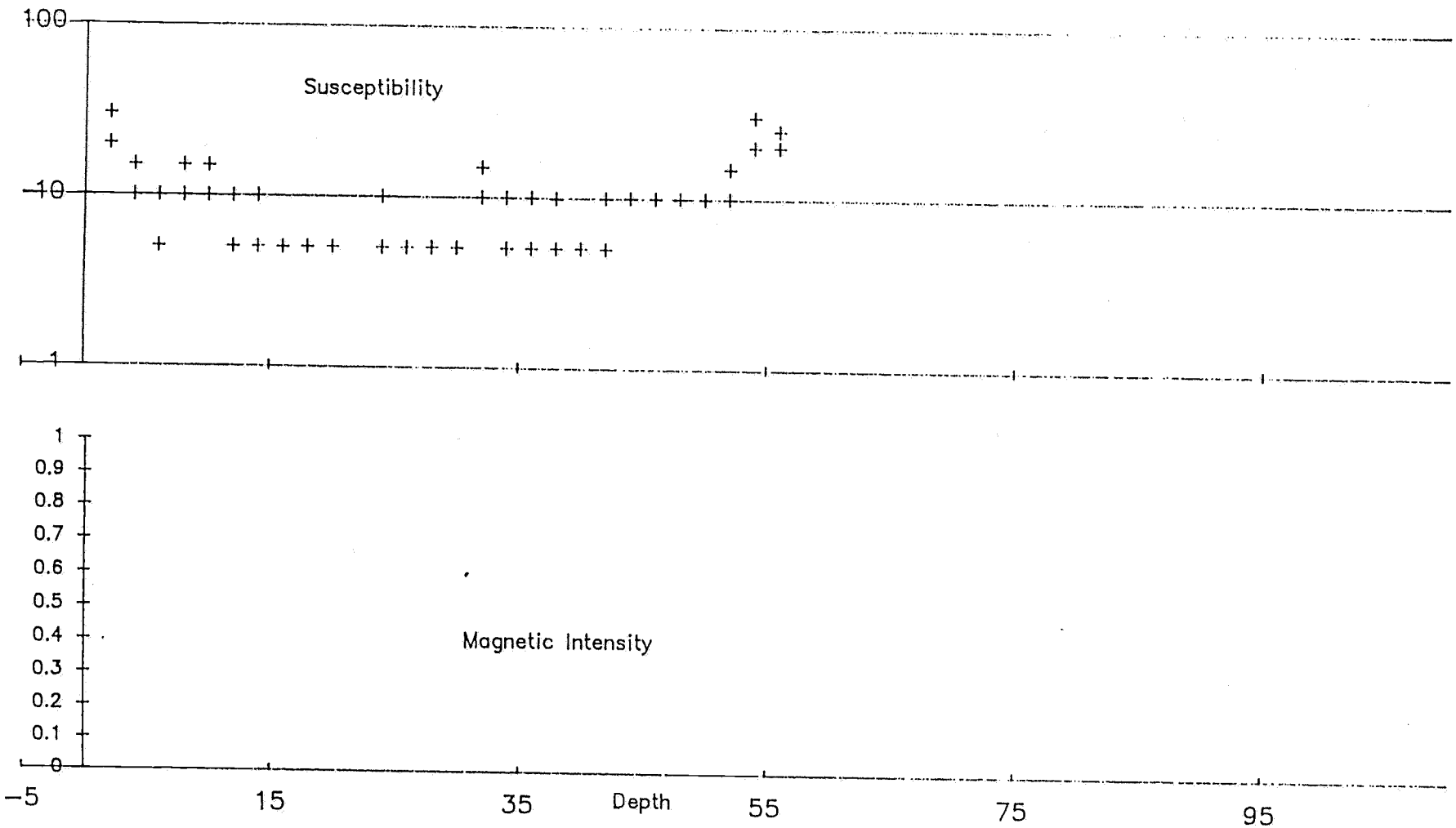
DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
34	36							
36	38							
38	40							
40	42							40-48m Yellow clay with abundant quartz and earthy haematite
42	44							
44	46							
46	48							
48	50							48-62m Grey clay with minor haematite
50	52							
52	54							
54	56							
56	58							
58	60							
60	62							
62	64							62-66m Hard basement of quartz/orthoclase/biotite/hornblende minor magnetite gneiss, medium-grained.
64	66							
								END OF HOLE AT 66m

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATIONS	DIAMONDS	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
34	36	X2878			5-10	
36	38	X2879			5-10	
38	40	X2880			5	
40	42	X2881			15-20	
42	44	X2882			10-15	
44	46	X2883			10	
46	48	X2884			<5	
48	50	X2885			<5	
50	52	X2886			15-20	
52	54	X2887			10-20	
54	56	X2888			5-10	
56	58	X2889			15-20	
58	60	X2890			10-15	
60	62	X2891			15-20	
62	64	X2892			150-200	
64	66	X2893			150-200	

BARTON – 54364E16 DH3

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STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 2

PROJECT TARCOOLA / BARTON AREA BARTON Drillhole type RAB / AIRCORE

CO-ORDS (OW 155 LOCAL) 562 199 DEC^LN 90° AZIMUTH – RL – DH No. 5436-4 / W15

DATE COMMENCED 20-7-87 DATE COMPLETED 21-7-87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 87 m HQ Core to: 88 m NQ Core to: – BQ Core to: – EOH 88 m

FROM	k (av)	LOG	FIELD DESCRIPTION	SAMPLE No.	RESULTS
2	30-40	Qrs	0-15 m Yellow-brown and orange brown fine and medium-grained, aeolian, quartz sand. Minor calcrete.	X2705	
4					
6	5-10				
8					
10	<5				
12					
14		TSi	15-16 m Medium-grained, yellow silcrete.		
16	5-10		16-24 m Orange-maroon and pale brown, fine-grained, well sorted quartz sand.		
18					
20					
22	<5				
24		Tep	24-36 m Black lignite.		
26					
28	5-10				
30					
32					
34					
36			36-46 m Sandy clay		
38					
40					
42	20-30				
44					
46		pfcm	46-58 m Grey-brown clay with strong bands (weathered basement)		
48					
50					
52	20-40				
54					
56					
58				X2733	
60					

SCALE: GEOLOGIST: DATE:

STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 2 of 2

PROJECT	AREA	Drillhole type
CO-ORDS	DEC^{LN} AZIMUTH RL	DH No. 5436-4 / W15
DATE COMMENCED	DATE COMPLETED	DRILLED BY / DRILL RIG
Non Coring to:	HQ Core to: NQ Core to: BQ Core to:	EOH

FROM	TO	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
58	40-50		pEcm	58-87m Green-khaki clay with abundant fragments of green-grey silicified basement.	X2743	
60						
62						
64						
66						
68	30-40					
70						
72						
74						
76						
78	20-40					
80						
82						
84						
86						
88	5000			87-88m Core: Medium-grained, amphibolite.	X2749	
				END OF HOLE AT 88m		

SCALE: GEOLOGIST: DATE.

PROJECT TARCOOLA/BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/AIR CORE | DH No.: 5436-4/W15 |

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
								HOLE: 5436-4/W15							
0	2							Mid-brown, fine quartz sand and silt with very minor calcrete	0	2	X2705			30-40	
2	4							Pale yellow-brown, fine-grained quartz sand and silt with minor white calcrete	2	4	X2706			15-20	
4	6							Less sorted, orange-brown fine and medium-grained quartz sand	4	6	X2707			5-10	
6	8							Pale orange-brown fine and medium-grained quartz sand, some grains to 2mm dia.	6	8	X2708			<5	
8	10							As above	8	10	X2709			<5	
10	12							Pale orange-brown fine and medium-grained quartz sand, sparse fragments of Fe cemented sand are present, some qz to 3mm	10	12	X2710			5-10	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/W15

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$x10^{-5}$SI	
12	14							Orange brown, fine and medium-grained quartz sand and silt with yellow Fe cemented fragments common	12	14	X2711			5-10	
14	16							Hard drilling. 50% fine and medium-grained orange-brown quartz sand; 50% hard, angular, 2-3 cm chips of medium-grained, yellow silcrete	14	16	X2712			5-10	
16	18							Orange-maroon, fine-grained, well sorted quartz sand	16	18	X2713			5-10	
18	20							As above	18	20	X2714			5-10	
20	22							Pale cream-brown, fine-grained well sorted quartz sand	20	22	X2715			<5	
22	24							As above	22	24	X2716			<5	
24	26							Black lignite. Some cuttings show white silt and sand partings up to 1mm thick	24	26	X2717			5-10	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/W15

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
26	28							Lignite. No partings visible	26	28	X2718			5-10	
28	30							As above	28	30	X2719			5-10	
30	32							As above	30	32	X2720			<5	
32	34							As above	32	34	X2721			5-10	
34	36							As above	34	36	X2722			5-10	
36	38							Med grey - light tan clay with coaly fragments common and sparse pyrite nodules	36	38	X2723			5-10	
38	40							As above	38	40	X2724			5-10	
40	42							Grey and pale-maroon brown clay. 0.5mm grain of quartz common	40	42	X2725			5-10	
42	44							Yellow-brown and grey sandy clay	42	44	X2726			30-40	
44	46							Maroon and white sandy clay	44	46	X2727			20-30	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/W15

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	SAMPLE/CORE RECOVERY Actual	SAMPLE/CORE RECOVERY %	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
46	48							Grey-brown clay with khaki stony fragments, possibly silicified fragments of weathered basement	46	48	X2728			20-40	
48	50							As above	48	50	X2729			20-40	
50	52							Grey-brown clay with black, Fe rich, stony concretions	50	52	X2730			20-40	
52	54							As above	52	54	X2731			30-50	
54	56							Blue grey clay	54	56	X2732			50-60	
56	58							As above	56	58	X2733			30-40	
58	60							Khaki-green clay with abundant fragments of green-grey, silicified basement rock, highly weathered	58	60	X2734			40-50	
60	62							" "	60	62	X2735			50-70	
62	64							" "	62	64	X2736			50-70	
64	66							" "	64	66	X2737			40-50	

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PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/4X5

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
66	68							Khaki-green clay with abundant	66	68	X2738			30-40	
68	70							fragments of grey-green, silicified	68	70	X2739			40-50	
70	72							basement rock. No mica noted	70	72	X2740			30-40	
72	74							and no change with depth.	72	74	X2741			30-40	
74	76							" "	74	76	X2742			20-40	
76	78							" "	76	78	X2743			20-40	
78	80							" "	78	80	X2744			20-40	
80	82							" "	80	82	X2745			30-40	
82	84							" "	82	84	X2746			40-50	
84	86							" "	84	86	X2747			30-50	
86	87							" "	86	87	X2748			400 700	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/W15

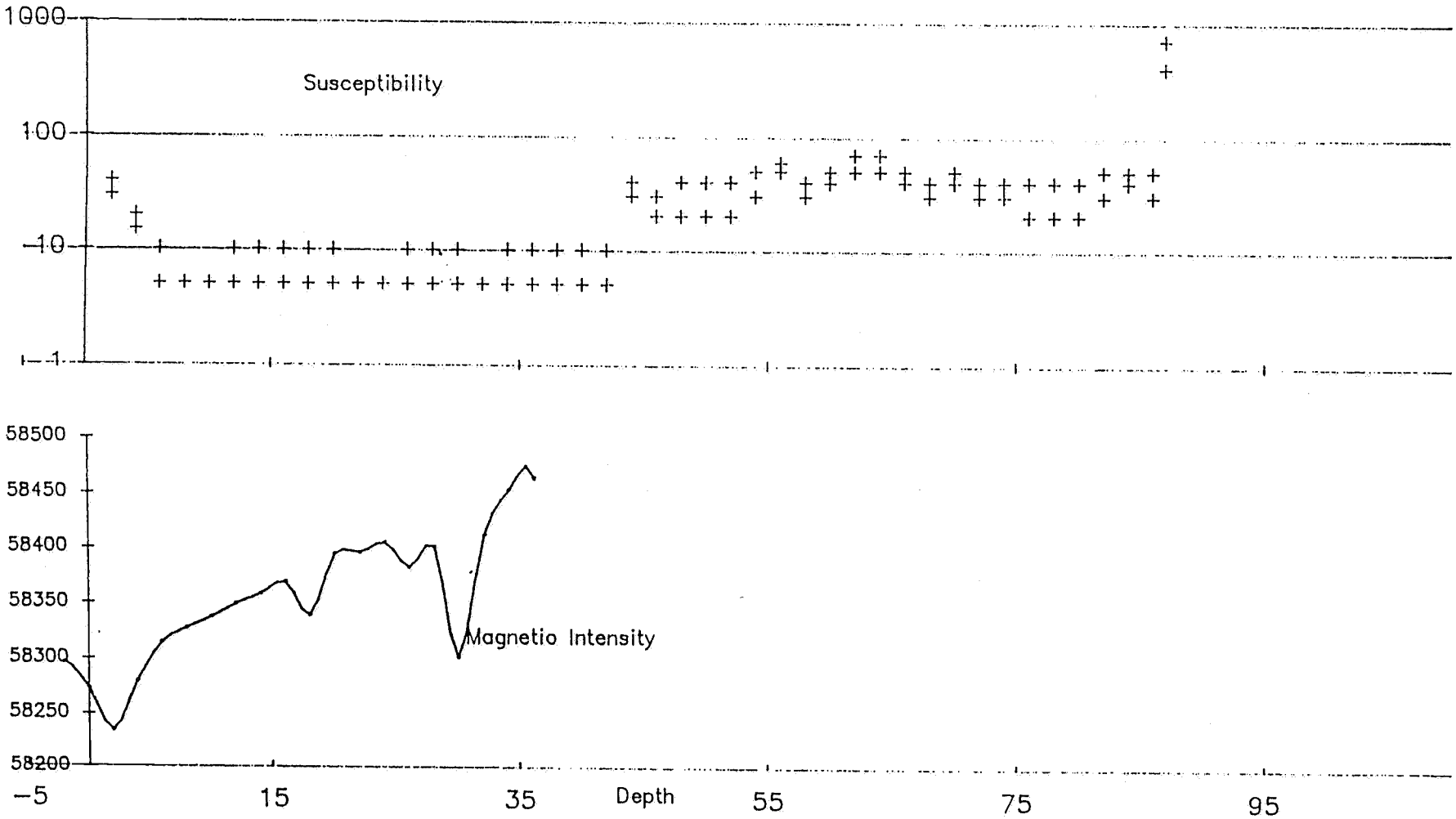
DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
87	88					X2749	-90°	Core: Very weathered, green, medium-grained rock, weakly foliated rock with kernels of less weathered material
								Pet. Sample: "This is an amphibolite facies grade metamorphic rock comprised mainly of plagioclase and pleochroic green hornblende."
								END OF HOLE AT 88m.

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	MAGNETIC	SUSCEPT	DENSITY		
					$\times 10^{-5}$ SI			
87	88	X2749			5,000			

BARTON – 54364W15 DH1

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STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA / BARTON AREA BARTON Drillhole type RAB

CO-ORDS 563 213 (150E/75N LOCAL) DEC^{LN} 90° AZIMUTH — RL — DH No. 5436-4/W19

DATE COMMENCED 21·7·87 DATE COMPLETED 21·7·87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 47m HQ Core to: — NQ Core to: — BQ Core to: — EOH 47m

FROM	K (cps)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0					X2789	
2	20-30		Qrs	0-4m Light red-brown, well sorted, fine-grained quartz sand with minor calcrete.		
4						
6				4-22m White to brown, medium-grained well sorted quartz sand. Minor silcrete at the top of interval.		
8						
10						
12			Tep			
14	5-10					
16						
18						
20						
22	20-30			22-42m Highly weathered and altered ultramafic rock.		
24						
26						
28						
30	300-400		pfcm			
32						
34						
36	1500-2000					
38						
40						
42	1500-2000			42-47m Medium to coarse-grained, grein-granitic grein.		
44						
46	200-300					
47				END OF HOLE AT 47m	X2812	

SCALE: GEOLOGIST: DATE:

PROJECT TARCOOLA/BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB

DH No.: 5436-4/W19

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
								HOLE: 5436-4/W19							
0	2							Light red-brown, well sorted, fine-grained quartz sand with minor calcrete	0	2	X2789			20-30	
2	4							As above	2	4	X2790			20-30	
4	6							90% mustard brown, fine-grained quartz sand, 10% medium-grained silcrete fragments	4	6	X2791			20-40	
6	8							80% fine to medium-grained, pale yellow brown fine and medium grained quartz sand, 20% silcrete	6	8	X2792			20-40	
8	10							Off white, fine-grained, well sorted quartz sand with 5-10% silcrete	8	10	X2793			10-15	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE | DH No. 5436-4/W19 | Page 2 of 4

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATIONS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$SI	
10	12							As above	10	12	X2794			10-15	
12	14							Pale pink-brown, medium-grained, well sorted quartz sand. Minor silcrete	12	14	X2795			10-25	
14	16							Mid brown, medium-grained, well sorted quartz sand	14	16	X2796			5-10	
16	18							Red-brown, medium to coarse-grained poorly sorted quartz sand. Some quartz grains up to 10 mm diameter and well rounded	16	18	X2797			5-10	
18	20							Mid yellow-brown, medium-grained well sorted quartz sand	18	20	X2798			5-15	
20	22							Maroon brown, medium-grained, silty quartz sand	20	22	X2799			20-30	
22	24							Pale purple-grey micaceous clay	22	24	X2800			20-30	
24	26							Green and brownish grey micaceous clay with minor quartz	24	26	X2801			20-30	

3647

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/W19

DEPTH from	DEPTH to	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
26	28							Very pale green-grey clay with fragments of very weathered, medium-grained, green, basement rock.
28	30							" "
30	32							Khaki green clay with abundant chlorite and quartz
32	34							" "
34	36							Khaki clay with abundant medium-grained chlorite and fragments of chloritic rock.
36	38							" "
38	40					X2808		Pet. Sample: "This is an ultramafic rock which has been altered to secondary mafic minerals comprised largely of chlorite and other fibrous textured mafic mineral."
40	42							Blue-green clay ~~shot~~ with chloritic fragments, as above.

ANALYTICAL DATA

DEPTH from	DEPTH to	SAMPLE No.	INDICATORS	SUSCEPT	DENSITY
				$\times 10^{-5}$ SI	
26	28	X2802		30-45	
28	30	X2803		50-100	
30	32	X2804		300-400	
32	34	X2805		400-600	
34	36	X2806		1500-2000	
36	38	X2807		1500-2000	
38	40	X2808		1500-2000	
40	42	X2809		800-900	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5436-4/W19

Page 4 of 4

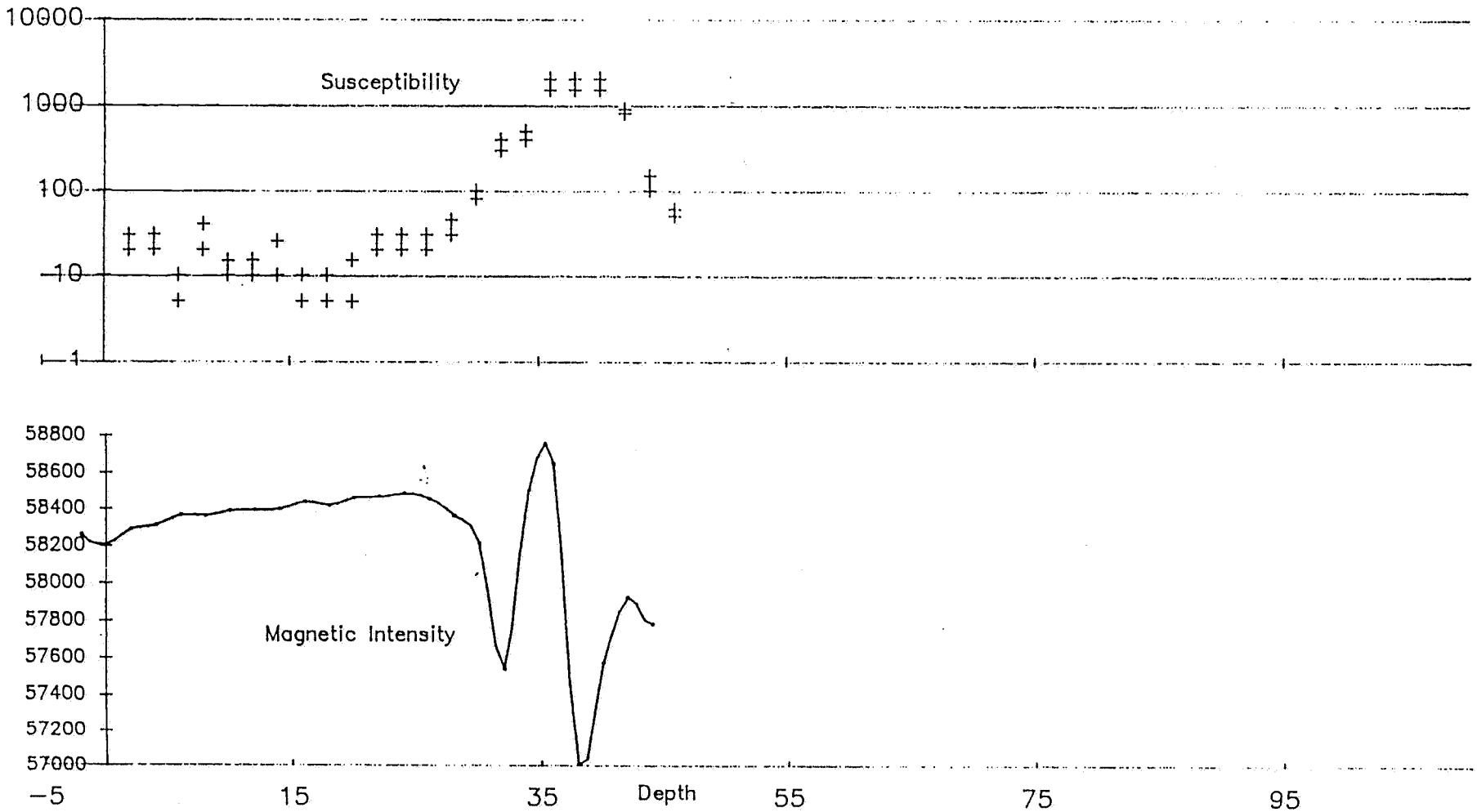
DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
42	44							Coarse-grained quartz/feldspar/biotite gneiss – granitic gneiss
44	46							As above
46	47							quartz/feldspar/very minor biotite gneiss – granitic gneiss
								END OF HOLE AT 47 m

ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
42	44	X2810			100–150	
44	46	X2811			50–60	
46	47	X2812			200–300	

366

BARTON – 54364W19 DH1

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STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA/BARTON AREA BARTON Drillhole type RAB/AIR CORE

CO-ORDS 658 207 (OW/SDS LOCAL) DEC^LN 90° AZIMUTH — RL — DH No. SSJ6-1/E10

DATE COMMENCED 28·7·87 DATE COMPLETED 29·7·87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 58m HQ Core to: 61m NQ Core to: — BQ Core to: — EOH 61m

FROM	k (cav)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	90-120			0-6m Mid-brown, medium grained gaurtz sand with fine-grained pink silicate.	X3175	
2			Qrs			
4						
6	200-250			5-42m Khaki clay with abundant white mica and fragments of weathered basement.		
8						
10						
12						
14						
16						
18	400-500					
20						
22						
24						
26						
28						
30						
32						
34	300-400					
36						
38						
40						
42						
44	800-1000			42-61m Soft, blue-green chlorite and black nodules of amphibole		
46						
48						
50						
52	3500					
54						
56						
58				Core from 58-61m Coarse-grained altered ultramafic, possibly a peridotite.	X3204	
60						
61	5000-6000			END OF HOLE AT 61m		

SCALE: GEOLOGIST: DATE.

PROJECT TARCOOLA/BARTON
AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/AIRCORE
DH No.: 5536-1/E10
Page 1 of

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	SAMPLE/CORE RECOVERY Actual	SAMPLE/CORE RECOVERY %	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
								HOLE: 5536-1/E10							
0	2							85% mid-brown, medium grained, quartz sand and silt; 15% pink fine-grained silcrete	0	2	X3175			80-120	
2	4							As above	2	4	X3176			50-70	
4	6							Mid to dark brown silt and clay with medium-grained quartz sand and 10% silcrete fragments	4	6	X3177			100-200	
6	8							Mustard-brown clay with minor sand and silcrete	6	8	X3178			200-250	
8	10							Mid-brown clay, white mica common	8	10	X3179			500-600	
10	12							Grey-brown clay with white mica and pellets of green micaceous clay	10	12	X3180			600-700	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/AIR CORE | DH No.: 5536-1/E10 | Page 2 of

DEPTH From	DEPTH To	SAMPLE / CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$X10^{-5}$ SI	
12	14							Grey-green micaceous clay with fragments of weathered basement	12	14	X3181			700-800	
14	16							Khaki-green clay with white mica common	14	16	X3182			400-600	
16	18							" "	16	18	X3183			200-400	
18	20							" "	18	20	X3184			400-500	
20	22							Weathered basement of medium to coarse-grained fibrous and partially ? silicified amphibole with biotite and chlorite common.	20	22	X3185			400-500	
22	24							Khaki micaceous clay with fragments of basement as above	22	24	X3186			300-500	
24	26							" "	24	26	X3187			300-400	
26	28							" "	26	28	X3188			400-500	
28	30							" "	28	30	X3189			300-400	
30	32							" "	30	32	X3190			300-400	
32	34							" "	32	34	X3191			300-400	
34	36							" "	34	36	X3192			300-400	
36	38							" "	36	38	X3193			400-500	
38	40							" "	38	40	X3194			300-400	

Signature Date

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-1/E10

DEPTH From	DEPTH To	SAMPLE / CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
40	42							Khaki micaceous clay with fragments of weathered basement
42	44							Basement has weathered. Sample consists mainly of blue-green chlorite with fragments of fibrous amphibole.
44	46							" "
46	48							" "
48	50							" "
50	52							" "
52	54							" "
54	56							" "
56	58							" "
58	61					X3204		Core: Dark green to black, soft, coarse-grained chlorite/amphibole rock. No foliation obvious. Pet. Sample: "This is an ultramafic igneous rock such as a pyroxenite or peridotite which has been subjected to alteration producing a secondary amphibole after original pyroxene as well as a brown phyllosilicate which is possibly a chlorite."

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
40	42	X3195			400-500	
42	44	X3196			800-1000	
44	46	X3197			500-850	
46	48	X3198			1500	
48	50	X3199			2500	
50	52	X3200			1500-3500	
52	54	X3201			3500	
54	56	X3202			2000-3500	
56	58	X3203			4000-5000	
58	61	X3204			5000-6000	

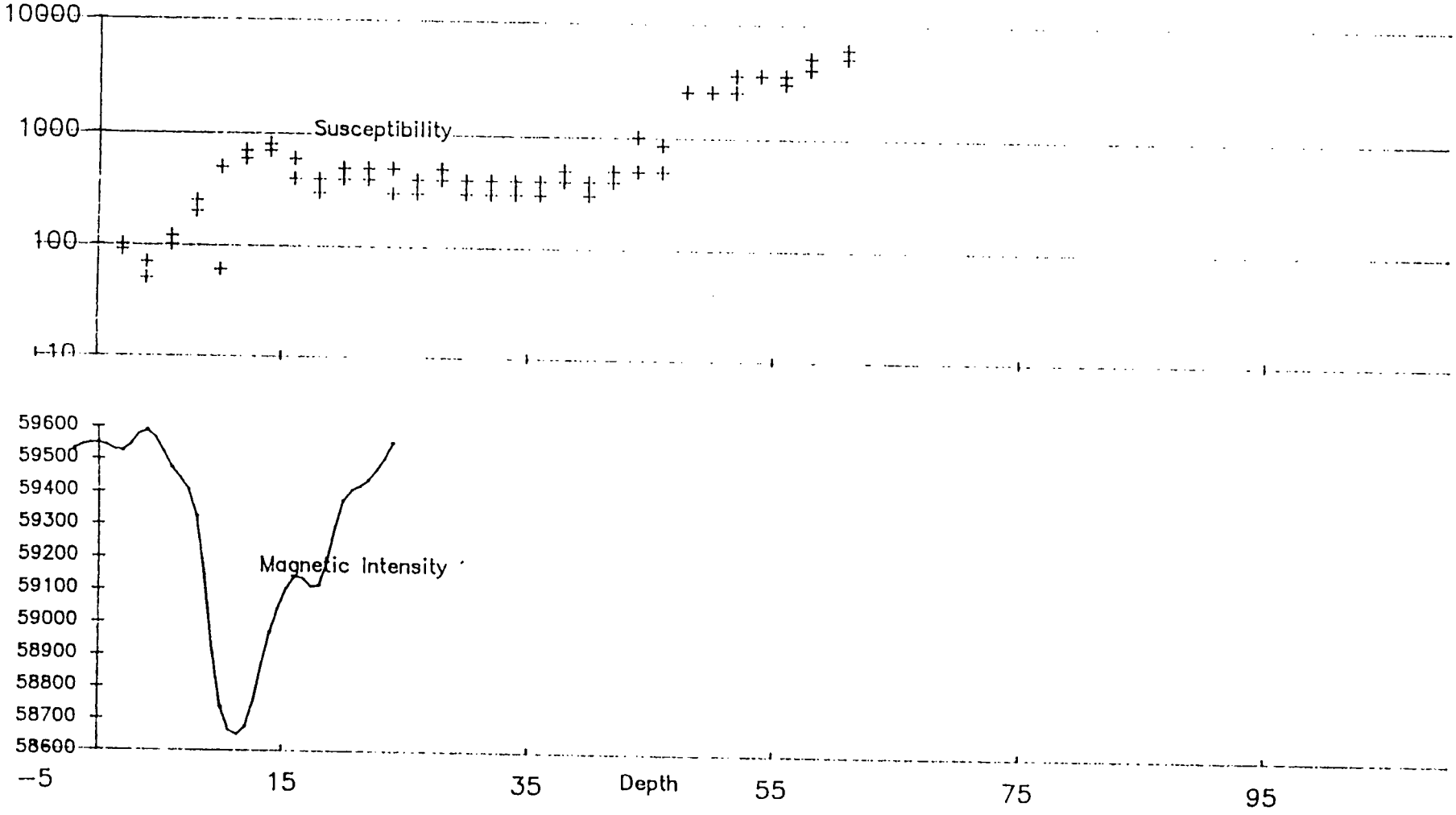
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BARTON – 55361E10 DH1

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STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA/BARTON AREA BARTON Drillhole type RAB/AIR CORE

CO-ORDS 639 210 (600W/505 LOCAL) DEC LN 90° AZIMUTH — RL — DH No. 5536-1/WOS DH1

DATE COMMENCED 27.7.87 DATE COMPLETED 27.7.87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 5 m HQ Core to: 57m NQ Core to: — BQ Core to: — EOH 57m

FROM	k (av)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	200-250		Qrs	0-2 m Calcrete and mid brown silt	X3095	
2						
4				2-32m Green and brown clays with quartz. Probably weathered gneiss.		
6						
8	10-20					
10						
12						
14						
16	10-20					
18						
20						
22						
24						
26						
28			pEcm			
30	10-20					
32	70-80			32-34m Hard quartz/biotite gneiss.		
34	10-20			34-42m Khaki clays with fragments of quartz and gneiss		
36						
38	40-50					
40						
42	600-800		?	42-4 m Khaki clay with fragments of dark grey, fine-grained, magnetic silicified rock.		
44						
46						
48						
50				4-57m Dark grey to black, aphanitic, magnetic silicified, schistose, ? ultramafic.		
52						
54	1000-1500					
56	1000					
57	650			END OF HOLE AT 57m	X3123	

SCALE: GEOLOGIST: DATE

PROJECT TARCOOLA/BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE RAB/HAMMER AIRCORE

DH No. 5536-1/W05 DH 1

Page 1 of

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
								HOLE : 5536-1/W05
0	2							50% Mid brown silt, 50% 0.5-3.0cm calcrete fragments
2	4							White clay with minor quartz
4	6							As above
6	8							As above
8	10							Very pale green clay
10	12							Pale green clay
12	14							Admixture of brown and green clays
14	16							Mid brown clay

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
					-5 $\times 10^{-5}$ SI	
0	2	X3095			200-250	
2	4	X3096			40-50	
4	6	X3097			20-30	
6	8	X3098			10-20	
8	10	X3099			10-20	
10	12	X3100			20-30	
12	14	X3101			10-20	
14	16	X3102			10-20	

874

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. SS36-1/W05 DH 1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														x10⁻³SI	
16	18							As above	16	18	X3103			10-20	
18	20							Light brown clay	18	20	X3104			10-20	
20	22							Pale green clay with quartz and siliceous fragments common	20	22	X3105			10-15	
22	24							Fawn - khaki clay with siliceous fragments common	22	24	X3106			10-20	
24	26							As above	24	26	X3107			10-20	
26	28							Pale green clay with fine quartz and very fine mica	26	28	X3108			10-20	
28	30							As above	28	30	X3109			10-20	
30	32							Green-grey clay with very fine quartz and mica	30	32	X3110			70-80	
32	34							Quartz/biotite grains	32	34	X3111			10-20	
34	36							Khaki clay	34	36	X3112			30-40	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-1/W05 DH1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
36	38							As above
38	40							As above
40	42							Khaki clay with abundant chips of quartz/biotite
42	44							Khaki clay with fragments of dark grey, siliceous, very magnetic rock which exhibits conchoidal fracture.
44	46							As above
46	48							Khaki to green clay with sparse quartz
48	50							Dark grey, very fine-grained siliceous, highly magnetic rock
50	52							" "
52	54							" "

ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	MAGNETICS	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
36	38	X3113			40-50	
38	40	X3114			40-50	
40	42	X3115			150-200	
42	44	X3116			600-800	
44	46	X3117			400-580	
46	48	X3118			60-100	
48	50	X3119			600-800	
50	52	X3120			100-200	
52	54	X3121			1000-1500	

3176

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-1/405 DH1

Page 4 of

DEPTH From	DEPTH To	SAMPLE / CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
54	55							Black to dark grey, silicified rock, very fine-grained and highly magnetic
55	57					X3123		CORE: Unsuccessful core run. Rock was recovered in 1-2cm fragments similar to above. One larger fragment is a composite of black, very fine-grained silicified material and grey-green, very altered, medium-grained rock perhaps exhibiting original texture. Pet. Sample: "This is thought to be a schistose rock which has been subjected to pervasive silicification most likely under weathering conditions. Many of the largly silicified clasts contain an unusual green biotite and abundant finely divided opaques suggesting that this could represent a mafic to ultramafic rock which has been subjected to deformational effects producing a schistose texture and subsequent strong silicification."

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATIONS	DIAMOND	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
54	55	X3122			1000	
55	57	X3123			650	

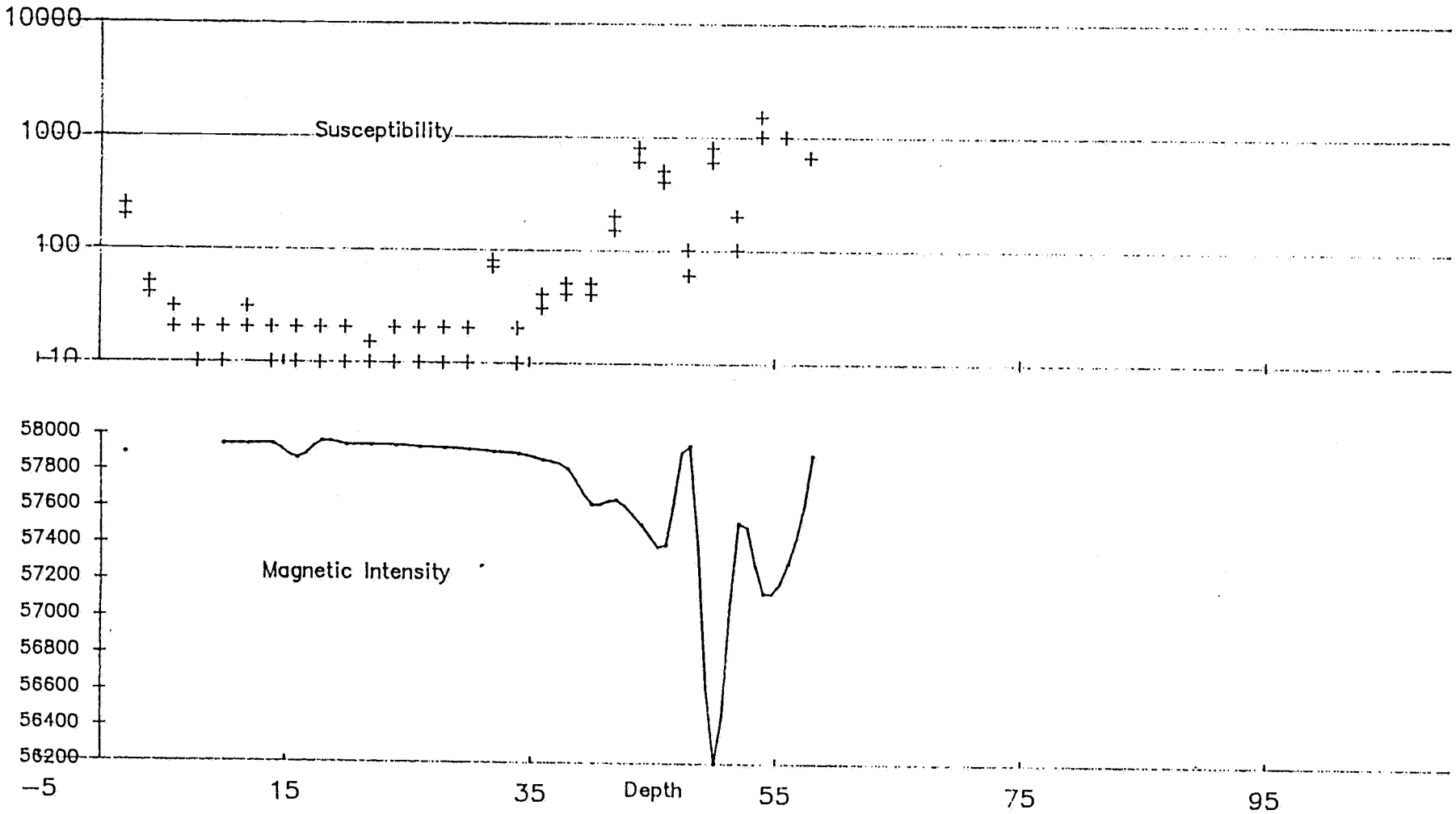
END OF HOLE AT 57m

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BARTON – 55361W05 DH1

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STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA/BARTON AREA BARTON Drillhole type RAB/HAMMER

CO-ORDS 639 210 (600W/20S LOCAL) DEC^{LN} 90° AZIMUTH — RL — DH No. 5536-1/20S DH2

DATE COMMENCED 28·7·87 DATE COMPLETED 28·7·87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 71 m HQ Core to: — NQ Core to: — BQ Core to: — EOH 71 m

FROM	k (av)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	200-250		Qrs	0-3 m Red-brown, quartz sand and silt with abundant calcrete	X3140	
4	20-40			3-32 m White to pale green clay with imbedded angular quartz.		
30	30-40		pEm			
32	80-100			32-50 m Hard, medium-grained quartz/biotite gneiss.		
40	100-150					
50	70-80					
50	1000			50-71 m Black, aphanitic, silicified, magnetic rock. Un silicified parts are serpentinised ultramafic.		
62	2000					
68	2000					
71				END OF HOLE AT 71m	X3179	

SCALE: GEOLOGIST: DATE:

PROJECT TARCOOLA/BARTON
AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/HAMMER
DH No.: 5536-1/W05 DH2

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMOND	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
								HOLE: 5536-1/W05 DH2							
0	2							Red-brown, fine-grained sand and silt with abundant fragments of calcrete	0	2	X3140			200-250	
2	4							50% red-brown silt; 50% white clay	2	4	X3141			50-60	
4	6							White to pale greenish white clay with occasional quartz grains	4	6	X3142			5-10	
6	8							" "	6	8	X3143			20-60	
8	10							" "	8	10	X3144			40-60	
10	12							" "	10	12	X3145			20-40	
12	14							" "	12	14	X3146			10-20	

PROJECT

REA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-1/405 DH 2

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATIONS	XRAMOREX	SUSCEPT	DENSITY		
														$\times 10^{-5}$ SI			
14	16							White to pale greenish white clay with occasional quartz grains, increasing towards base.	14	16	X3147			40-60			
16	18							" "	16	18	X3148			30-40			
18	20							" "	18	20	X3149			10-20			
20	22							" "	20	22	X3150			10-20			
22	24							" "	22	24	X3151			5-10			
24	26							" "	24	26	X3152			20-30			
26	28							" "	26	28	X3153			10-20			
28	30							" "	28	30	X3154			30-40			
30	32							" "	30	32	X3155			30-40			
32	34							Medium-grained quartz/biotite grains.	32	34	X3156			60-100			
34	36							" "	34	36	X3157			80-100			
36	38							" "	36	38	X3158			60-80			
38	40							" "	38	40	X3159			100-150			
40	42							" "	40	42	X3160			200			

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-1/W05 DH2

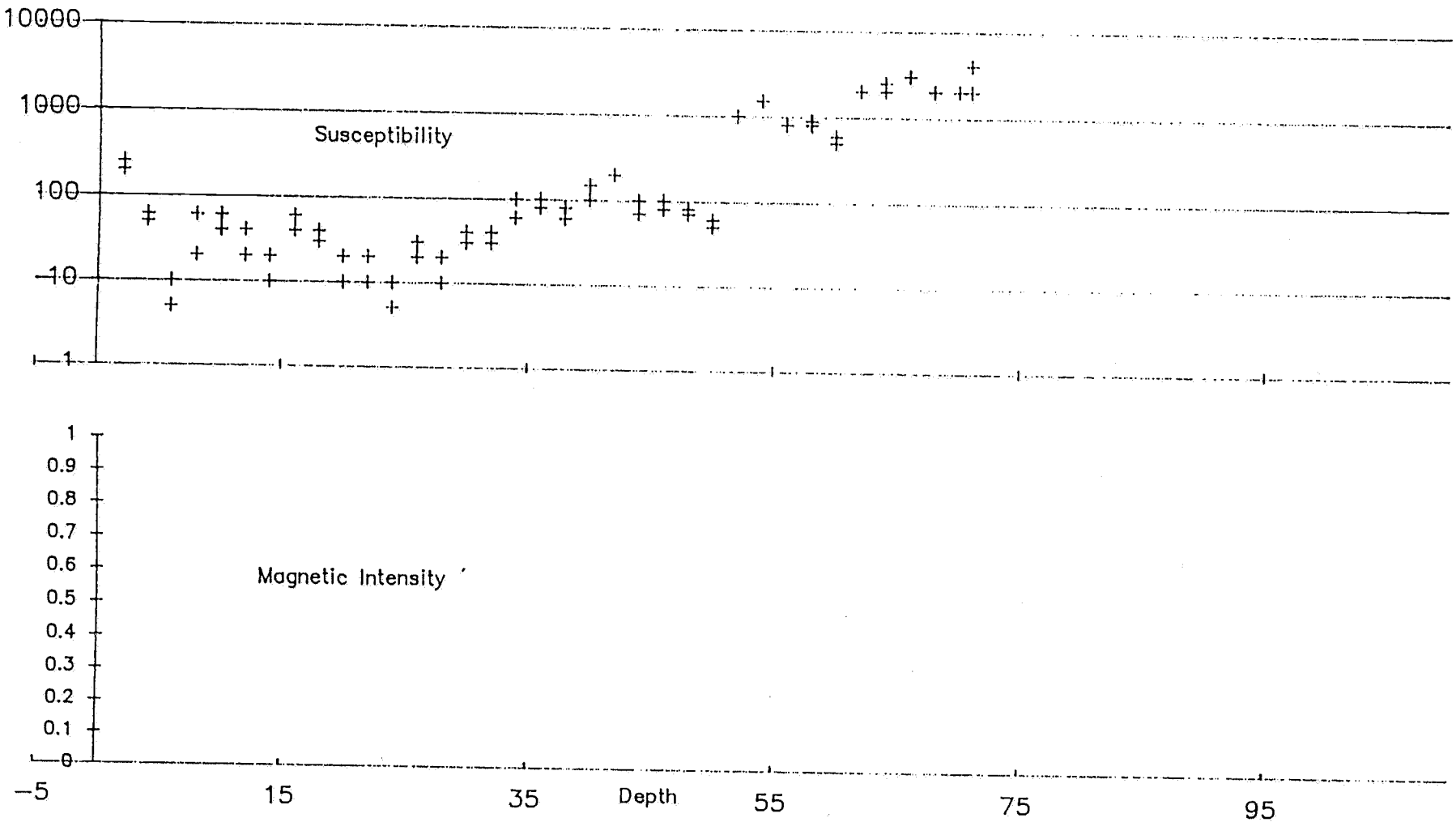
DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
42	44							Very coarse quartz and quartz/biotite gneiss fragments
44	46							" "
46	48							" "
48	50							" "
50	52							40% gneiss as above; 60% black, aphanitic, silicified, magnetic rock, identical to that in DH1.
52	54							Black, aphanitic, silicified, magnetic rock, highly fractured
54	56							" "
56	58							" "
58	60							" "
60	62							" "
62	64							" "
64	66							" "
66	68					X3173		" "
68	71							Pet. Sample: "This sample consists mainly of serpentine which forms a fibrous textured mosaic comprised mainly of granular pseudomorphs after olivine and some pyroxene.

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMOND	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
42	44	X3161			70-100	
44	46	X3162			80-100	
46	48	X3163			70-80	
48	50	X3164			50-60	
50	52	X3165			1000	
52	54	X3166			1500	
54	56	X3167			800	
56	58	X3168			800-900	
58	60	X3169			500-600	
60	62	X3170			2000	
62	64	X3171			2000-2500	
64	66	X3172			3000	
66	68	X3173			2000	
68	71	X3174			2000	

BARTON 55361W05 DH2

1:500



18 1/4 Dec 82

STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA / BARTON AREA BARTON Drillhole type RAB/HAMMER

CO-ORDS 645209 (300W/0S LOCAL) DEC^LN 90° AZIMUTH — RL — DH No. 5536-1/W06

DATE COMMENCED 27.7.87 DATE COMPLETED 27.7.87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 32m HQ Core to: — NQ Core to: — BQ Core to: — EOH 32m

FROM	k (av)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	40-50				X3124	
2			Qrs	0-9m Yellow-brown clay and fine-grained, red quartz sand. Minor calcrete.		
4						
6	5-10					
8						
10	30-40			9-14m Mid-brown micaceous clay with fragments of weathered gneiss.		
12		Δ				
14		Δ				
16	40-50		pEcm	14-32m Banded, medium to coarse-grained, quartz/feldspar and quartz/biotite gneiss.		
18						
20						
22						
24						
26						
28						
30						
32	50-60			END OF HOLE AT 32m	X3139	

PROJECT TARCOOLA/BARTON
AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/HAMMER | DH No.: 5536-1/W06 | Page 1 of 2

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
								HOLE: 5536-1/W06							
0	2							Yellow-brown clay and fine, red, quartz sand.	0	2	X3124			40-50	
2	4							As above	2	4	X3125			10-20	
4	6							As above	4	6	X3126			5-10	
6	8							As above with 5% calcrete	6	8	X3127			20-30	
8	10							Pale yellow brown quartz sand and clay, with angular quartz chips common, and minor biotite	8	10	X3128			30-40	
10	12							Mid brown clay with fragments of weathered grein	10	12	X3129			30-40	

PROJECT

AREA

DETAILED DRILLHOLE LOG

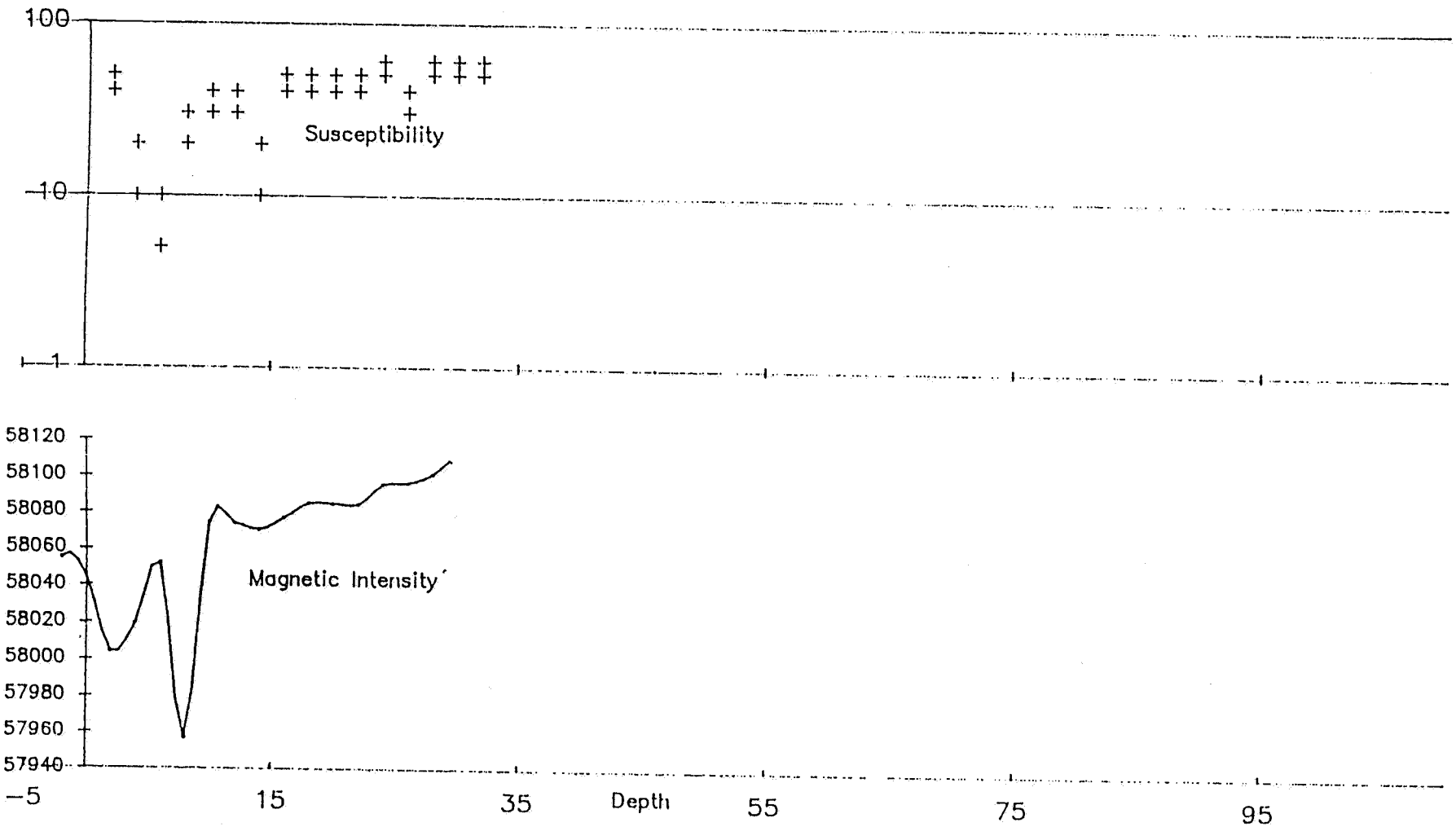
DRILL TYPE

DII No. 5536-1/L06

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
12	14							Grey-green mica and fragments of weathered quartz/biotite grains	12	14	X3130			10-20	
14	16							Banded, medium to coarse-grained, quartz/feldspar and quartz/biotite grains	14	16	X3131			40-50	
16	18							" "	16	18	X3132			40-50	
18	20							" "	18	20	X3133			40-50	
20	22							" "	20	22	X3134			40-50	
22	24							" "	22	24	X3135			50-60	
24	26							" "	24	26	X3136			30-40	
26	28							" "	26	28	X3137			50-60	
28	30							" "	28	30	X3138			50-60	
30	32							" "	30	32	X3139			50-60	
								END OF HOLE AT 32 m							

BARTON – 55361W06 DH1

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STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA / BARTON AREA BARTON Drillhole type RAB / AIR CORE

CO-ORDS 653 189 (OW/ON LOCAL) DEC^{LN} 90° AZIMUTH — RL — DH No. 536-2/ED1

DATE COMMENCED 26·7·87 DATE COMPLETED 26·7·87 DRILLED BY THOMPSON DRILLING DRILL RIG T10

Non Coring to: 30.0m HQ Core to: 30.5m NQ Core to: — BQ Core to: — EOH 30.5m

FROM	R (av)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0				0-7m Red-brown, fine-grained quartz sand and silt with minor calcrete.	X3053	
2	20-30		Qrs			
4						
6						
8	10-15		Tsi	7-8m Silcrete		
10				8-18m Mid grey and yellow clay.		
12			Tep			
14	15-20					
16						
18	40-50			18-26m Khaki clay with fragments of weathered basement.		
20	100-150					
22						
24	200-250					
26				26-30.5m Fine-grained, mottled green and tan, epidote-chlorite-quartz-plagioclase skarn.	X3068	
28	350-400					
30	250-350			END OF HOLE AT 30.5m		

GEOLOGIST DATE

PROJECT TARCOOLA / BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-2/E01

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$X10^{-5}$ SI	
								HOLE: 5536-2/E01							
0	2							Red-brown, fine-grained quartz sand and silt with minor calcrete	0	2	X3053			30-40	
2	4							" "	2	4	X3054			20-30	
4	6							" "	4	6	X3055			10-20	
6	8							80% red-brown, clayey sand; 20% grey siliceous fragments.	6	8	X3056			10-15	
8	10							70% mid grey clay with 30% grey siliceous fragments and minor quartz sand.	8	10	X3057			10-15	
10	12							Mid grey clay with quartz and grey silcrete fragments common	10	12	X3058			10-15	
12	14							" "	12	14	X3059			10-15	

Signature Date

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-2/E01

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT $\times 10^{-3}$ SI	DENSITY
14	16							Mid to dark grey clay with minor silcrete.	14	16	X3060			15-30	
16	18							Mustard yellow clay	16	18	X3061			40-50	
18	20							Khaki clay	18	20	X3062			100-150	
20	22							Khaki clay with minor fragments of quartz and feldspar	20	22	X3063			90-150	
22	24							Khaki-green clay with chips of dark-green, very weathered basement rock	22	24	X3064			200-250	
24	26							As above with abundant fine magnetite in sample	24	26	X3065			350-400	
26	28							Hard basement. Mottled pale-green to tan, fine-grained rock	26	28	X3066			350-400	
28	30							" "	28	30	X3067			250-350	

Signature

Date

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. SS36-2/E01

DEPTH from	DEPTH to	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE
30	30.5					X3068	

DESCRIPTION Include Depth to Oxidation

Core: Pet. Sample " This rock has been termed a (epidote - chlorite - quartz - plagioclase) skarn to emphasize its retrograde and probable metasomatic origin as indicated by the presence of chlorite and epidote. The feldspar and quartz forms an intergrowth with a vague igneous appearing character suggesting that the original rock could have been a mesocratic intrusive rock such as a quartz diorite."

END OF HOLE AT 30.5 m

ANALYTICAL DATA

DEPTH from	DEPTH to	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
30	30.5	X3068			$\times 10^{-3}$ SI 250 - 350	

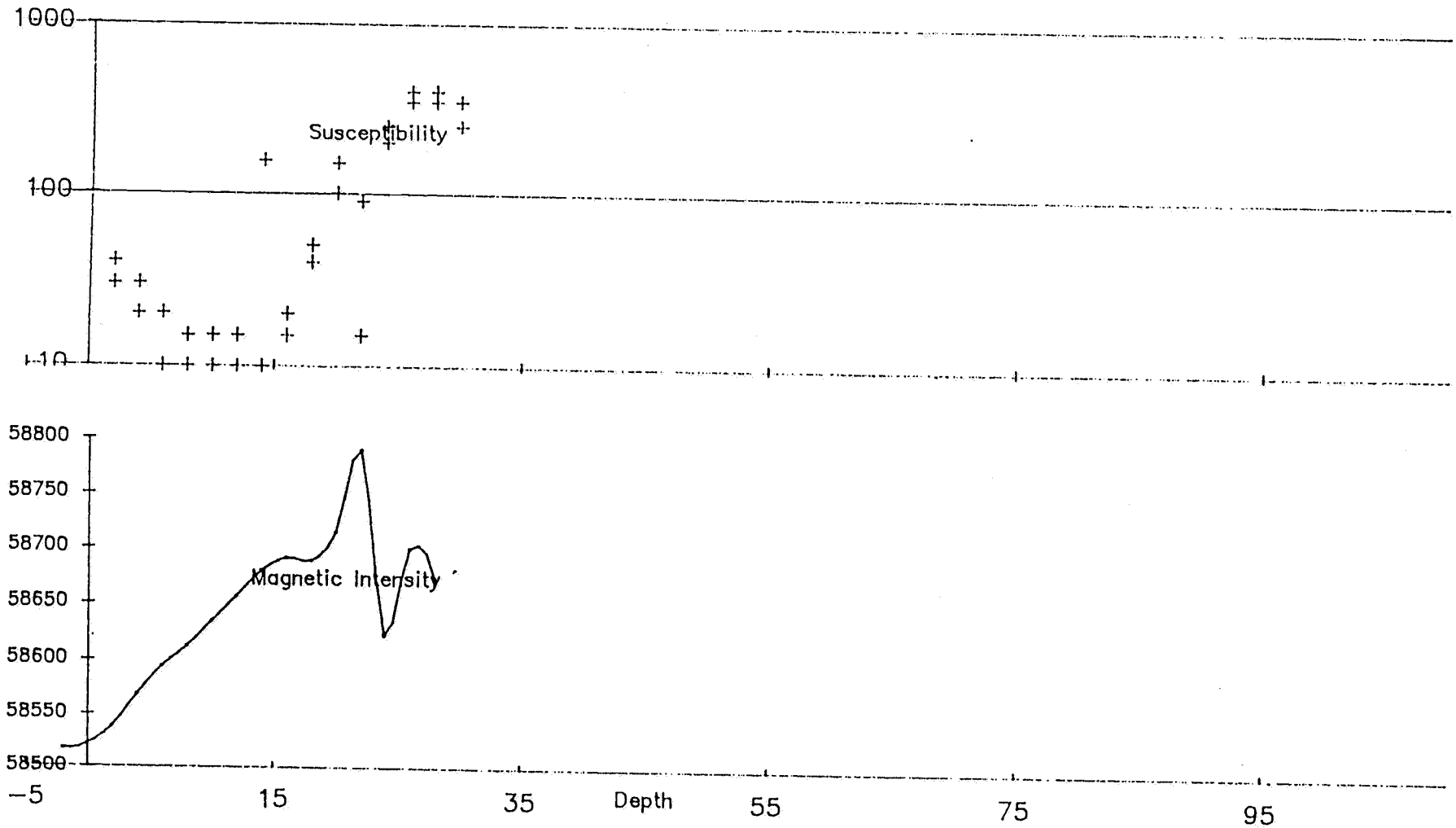
Signature

Date

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BARTON – 55362E01 DH1

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DRILLHOLE LOG SUMMARY SHEET

Page of

PROJECT TARCOOLA/BARTON AREA BARTON Drillhole type RAB/HAMMER

CO-ORDS 614 180 (ON/ON LOCAL) DEC^LN 90° AZIMUTH — RL — DH No. 5536-3/W12

DATE COMMENCED 18.7.87 DATE COMPLETED 18.7.87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 34 m HQ Core to: — NQ Core to: — BQ Core to: — EOH 34 m

FROM	K (cps)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0				0-6m Red-brown, medium to fine-grained, aeolian, quartz sand and silt with minor calcrete.	X2569	
2	20-30		Qrs			
4						
6				6-29m White, medium-grained, well sorted, quartz sand.		
8						
10						
12						
14						
16	5-10		Tep			
18						
20						
22						
24						
26						
28						
30	40-50			29-30m White clay and weathered gneiss.		
32	400	~ ~	pfcm	30-34m Medium to coarse-grained, dark grey, quartz/orthoclase/hornblende/muscovite gneiss.		
34	600-1000	~ ~			X2585	
				END OF HOLE AT 34m		

SCALE: GEOLOGIST: DATE:

PROJECT TARCOOLA/BARTON
AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/HAMMER | DH No.: 5536-3/W12 | Page 1 of 3

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$X10^{-5}SI$	
								HOLE: 5536-3/W12							
0	2							Red-brown, medium grained, quartz sand and silt	0	2	X2569			30-40	
2	4							Medium to fine-grained red-brown quartz sand and silt with minor calcrete	2	4	X2570			20-30	
4	6							Orange-brown quartz sand and silt with minor calcrete	4	6	X2571			20-30	
6	8							Pale yellow brown, medium-grained quartz sand	6	8	X2572			5-10	
8	10							White to off-white medium to fine-grained well sorted quartz sand	8	10	X2573			5-10	
10	12							As above	10	12	X2574			5-10	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-3/U12

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$X10^{-5}SI$	
12	14							White, medium-grained, well sorted, clean quartz sand	12	14	X2575			<5	
14	16							As above	14	16	X2576			<5	
16	18							As above	16	18	X2577			<5	
18	20							Cream - very pale brown, medium grained well sorted quartz sand	18	20	X2578			5-10	
20	22							As above	20	22	X2579			5-10	
22	24							As above	22	24	X2580			10-15	
24	26							As above	24	26	X2581			<5	
26	28							Off white, fine-grained quartz sand with minor angular, 1-2mm quartz grains	26	28	X2582			5-10	
28	30							28-29m 80% quartz sand as above; 20% white clay with chips of weathered greiss 29-30 - weathered qz/orthoclase/muscovite/ ?hornblende greiss	28	30	X2583			40-50	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

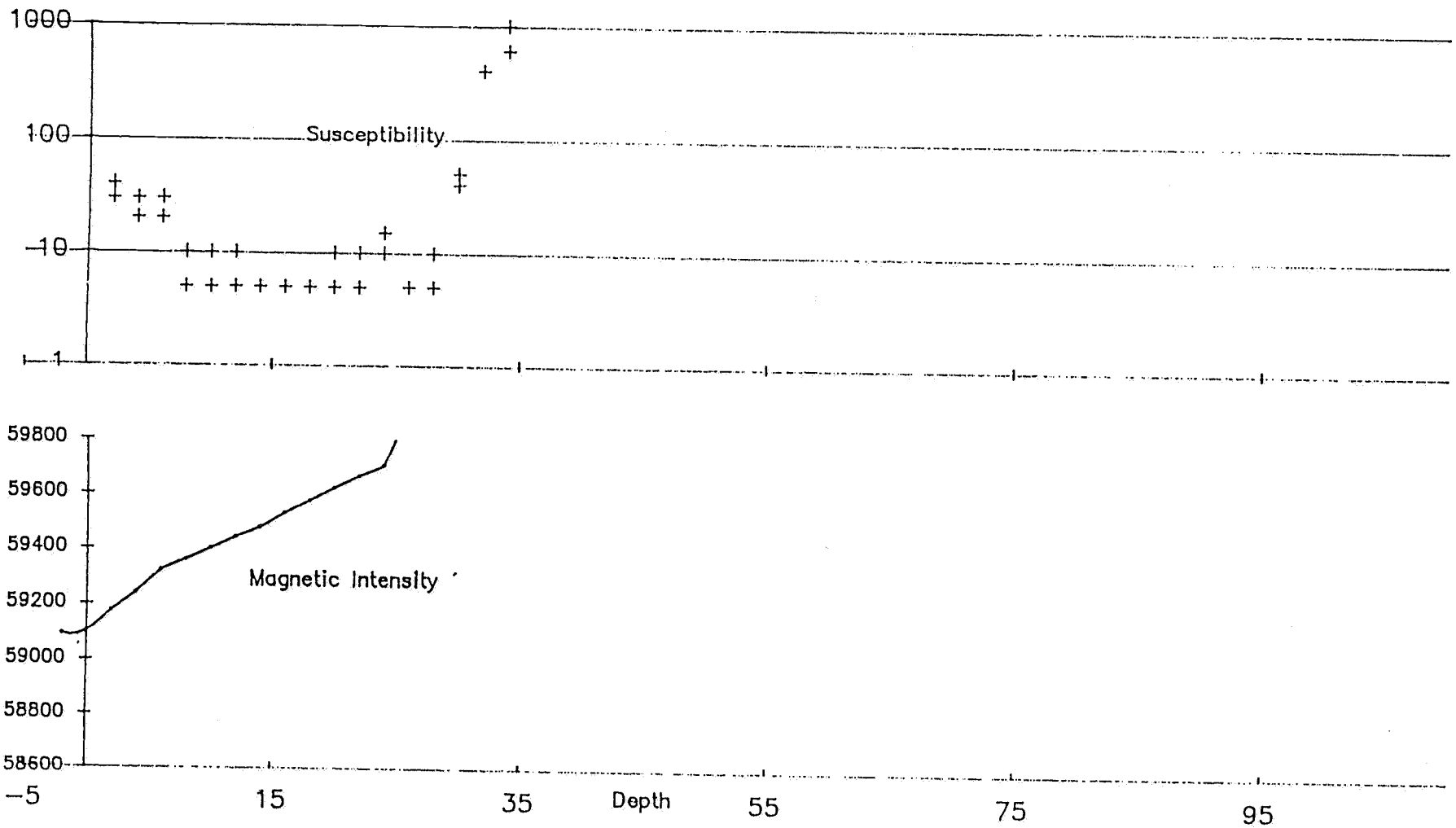
DH No. 5536-3/4/12

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
30	32							Medium to coarse-grained quartz/ orthoclase/hornblende/muscovite gneiss
32	34							As above
								END OF HOLE AT 34 m

ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
30	32	X2584			$\times 10^{-3}$ SI 400	
32	34	X2585			600-1000	

BARTON -- 55363W12 DH1

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STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA / BARTON | AREA BARTON | Drillhole type RAB/HAMMER

CO-ORDS 614 187 (OW/50S Local) | DEC^LN 90° | AZIMUTH — | RL — | DH No. 5536-3/W13

DATE COMMENCED 18-7-87 | DATE COMPLETED 18-7-87 | DRILLED BY THOMPSON DRILLING | DRILL RIG T1000

Non Coring to: 46 m | HQ Core to: — | NQ Core to: — | BQ Core to: — | EOH 46 m

FROM m	k (uv)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0				0-10 m Yellow brown, fine-grained, well-sorted, aeolian, quartz sand.	X2586	
2						
4	20-30		Qrs			
6						
8	10-20			10-22 m Pale brown to cream medium-grained, well sorted quartz sand. Very minor silcrete at top of interval		
10						
12						
14	5-10					
16						
18						
20						
22						
24	5-10		Tep	22-30 m Maroon, fine-grained ferruginous quartz sand, coarsening toward base.		
26						
28						
30	10-20			30-43 m Pale yellow-brown clay		
32						
34						
36						
38	5-10					
40						
42	100-400			43-46 m Medium-grained amphibolite / gneiss.		
44		~ ~ ~	pfcm			
46	1500-2000				X2608	
				END OF HOLE AT 46 m		

SCALE | GEOLOGIST | DATE

PROJECT TARCOOLA / BARTON
AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB / HAMMER
DH No.: 5536-3 / W13

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT $\times 10^{-5}$ SI	DENSITY
														$\times 10^{-5}$ SI	
								HOLE: 5536-3 / W13							
0	2							Yellow-brown, fine-grained, well sorted quartz sand	0	2	X2586			20-30	
2	4							As above	2	4	X2587			20-40	
4	6							As above	4	6	X2588			20-30	
6	8							As above	6	8	X2589			20-30	
8	10							95% yellow-brown, fine-grained well sorted quartz sand; 5% pale medium-grained silcrete	8	10	X2590			10-20	
10	12							Very pale brown to cream, fine-grained, quartz sand	10	12	X2591			10-20	
12	14							Very pale brown to cream, medium-grained, quartz sand	12	14	X2592			5-10	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-3/W3

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPTIBILITY	DENSITY
														$\times 10^{-5}$ SI	
14	16							As above	14	16	X2593			5-10	
16	18							Pale fawn - cream, medium-grained, well sorted quartz sand	16	16	X2594			5-10	
18	20							As above	18	20	X2595			5-10	
20	22							As above with a very minor maroon quartz sand component	20	22	X2596			5-10	
22	24							Maroon, fine-grained quartz sand	22	24	X2597			5-10	
24	26							Dark maroon, medium and coarse-grained quartz sand	24	26	X2598			5-10	
26	28							Dark maroon, poorly sorted, medium and coarse-grained quartz sand with abundant fragments of Fe cemented sand	26	28	X2599			10-20	
28	30							As above, minor clay toward base of interval	28	30	X2600			10-20	

400

PROJECT

AREA

DETAILED DRILLHOLE LOG

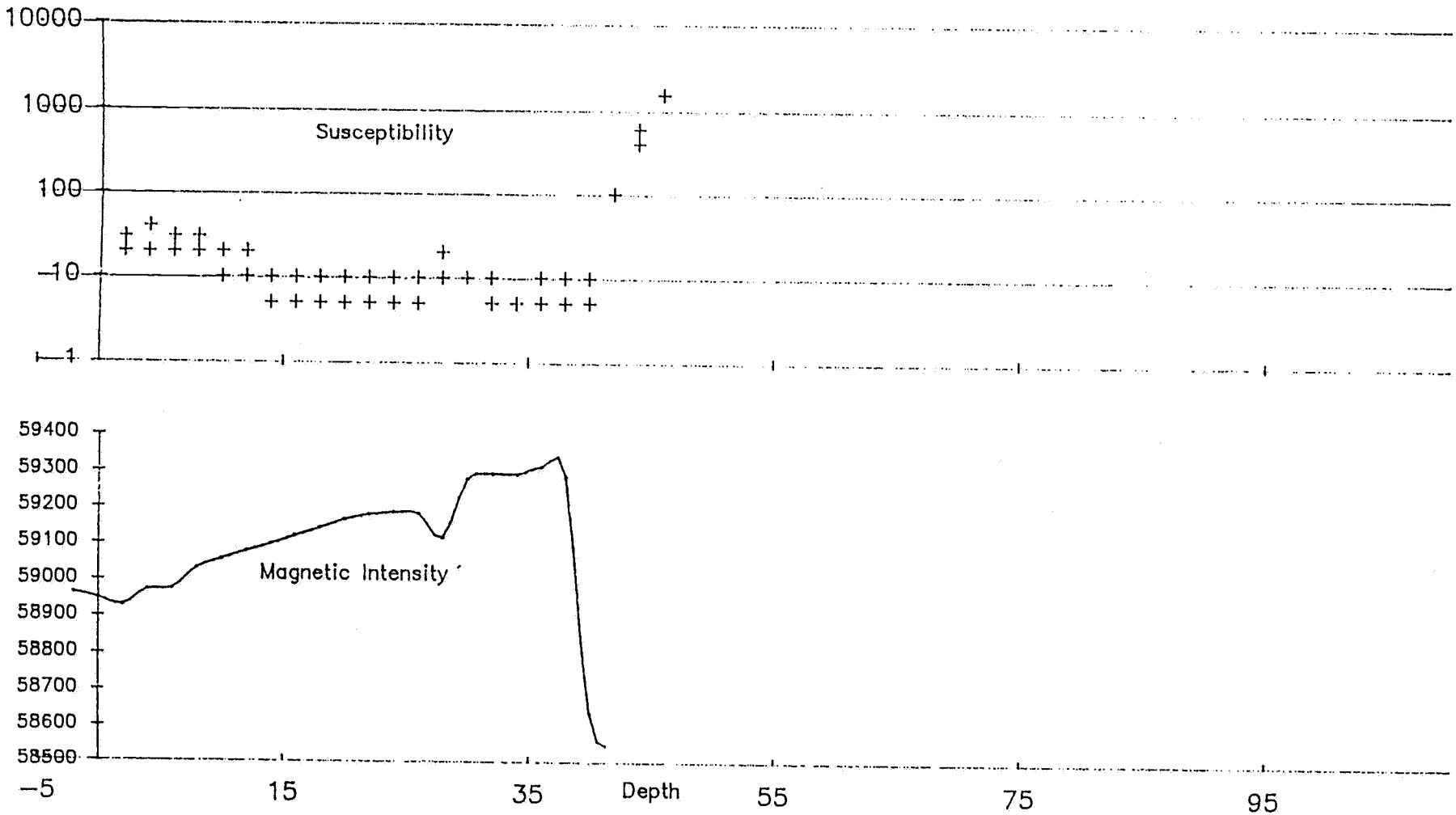
DRILL TYPE

DH No. 5536-3/W13

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATIONS	DIAMONDS	SUSCEPT	DENSITY
30	32							Pale yellow - cream clay	30	32	X2601			$\times 10^{-5}$SI	
														5-10	
32	34							As above	32	34	X2602			5-10	
34	36							As above	34	36	X2603			5-10	
36	38							Pale yellow clay	36	38	X2604			5-10	
38	40							Pale cream-brown clay	38	40	X2605			5-10	
40	42							Pale brown clay several angular fragments of aphanitic maroon silicate	40	42	X2606			5-10	
42	44							42-43 As above	42	44	X2607			100-400	
								43-44 Hard drilling: hammer chips of quartz/feldspar/hornblende/biotite/ minor pyrite rock							
44	46							Medium grained quartz/feldspar/hornblende /biotite amphibolite/gneiss	44	46	X2608			1500-2000	
								END OF HOLE AT 46m							

BARTON – 55363W13 DH1

1:500



STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA/BARTON AREA BARTON Drillhole type RAB/HAMMER

CO-ORDS 612 208 (70E/505 Local) DEC LN 90° AZIMUTH — RL — DH No. 5536-4/W04DH1

DATE COMMENCED 24-7-87 DATE COMPLETED 24-7-87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 54m HQ Core to: — NQ Core to: — BQ Core to: — EOH 54m

FROM	K (av)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0				0-9m Red-brown and yellow-brown, fine-grained, aeolian quartz sand and silt. Minor calcrete.	X2929	
2						
4	25-30		Qrs			
6						
8						
10				9-40m White to pale yellow, very fine-grained, well sorted, clean quartz sand.		
12	5-10					
14						
16						
18						
20						
22						
24			Tep			
26						
28						
30	5-10					
32						
34						
36						
38						
40	<5			40-44m Khaki, clayey quartz sand with angular fragments of quartz and weathered basement.		
42	10-15					
44						
46	10-20	~ ~		44-54m Medium grained, quartz/biotite/orthoclase gneiss.		
48		~	pfcm			
50						
52		~ ~				
54	10-20	~		END OF HOLE AT 54m	X2955	

SCALE: GEOLOGIST: DATE:

PROJECT TARCOOLA/BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/HAMMER

DH No.: 5536-4/W04 DH1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	SAMPLE/CORE RECOVERY Actual	SAMPLE/CORE RECOVERY %	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION (Include Depth to Oxidation)	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATIONS	XXAMOUNT	SUSCEPTIBILITY	DENSITY
														$\times 10^{-5}$ SI	
								HOLE: 5536-4/W04 DH1							
0	2							Red-brown, fine-grained, quartz sand and silt	0	2	X2929			30	
2	4							As above	2	4	X2930			25-30	
4	6							Yellow-brown, fine-grained quartz sand with minor calcrete	4	6	X2931			15-20	
6	8							Yellow, fine to medium-grained quartz sand	6	8	X2932			5-10	
8	10							Yellow and white, fine-grained, well sorted, clean quartz sand	8	10	X2933			<5	
10	12							White, clean, well sorted, very fine-grained quartz sand	10	12	X2934			5-10	
12	14							As above	12	14	X2935			<5	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/W04 DH 1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATIONS	EXAMINED	DISCEPI	DENSITY
														$\times 10^{-5}$ SI	
14	16							White, clean, well sorted, very fine-grained quartz sand	14	16	X2936			<5	
16	18							As above	16	18	X2937			<5	
18	20							As above	18	20	X2938			5-10	
20	22							As above	20	22	X2939			5-10	
22	24							White, clean, medium-grained, well sorted, quartz sand	22	24	X2940			<5	
24	26							Pale, yellow-cream, very fine-grained, well sorted quartz sand	24	26	X2941			5-10	
26	28							As above	26	28	X2942			5-10	
28	30							As above	28	30	X2943			5-10	
30	32							Very pale yellow-brown, very fine grained, well sorted quartz sand	30	32	X2944			5-10	
32	34							As above	32	34	X2945			5-10	

PROJECT

AREA

DETAILED DRILLHOLE LOG

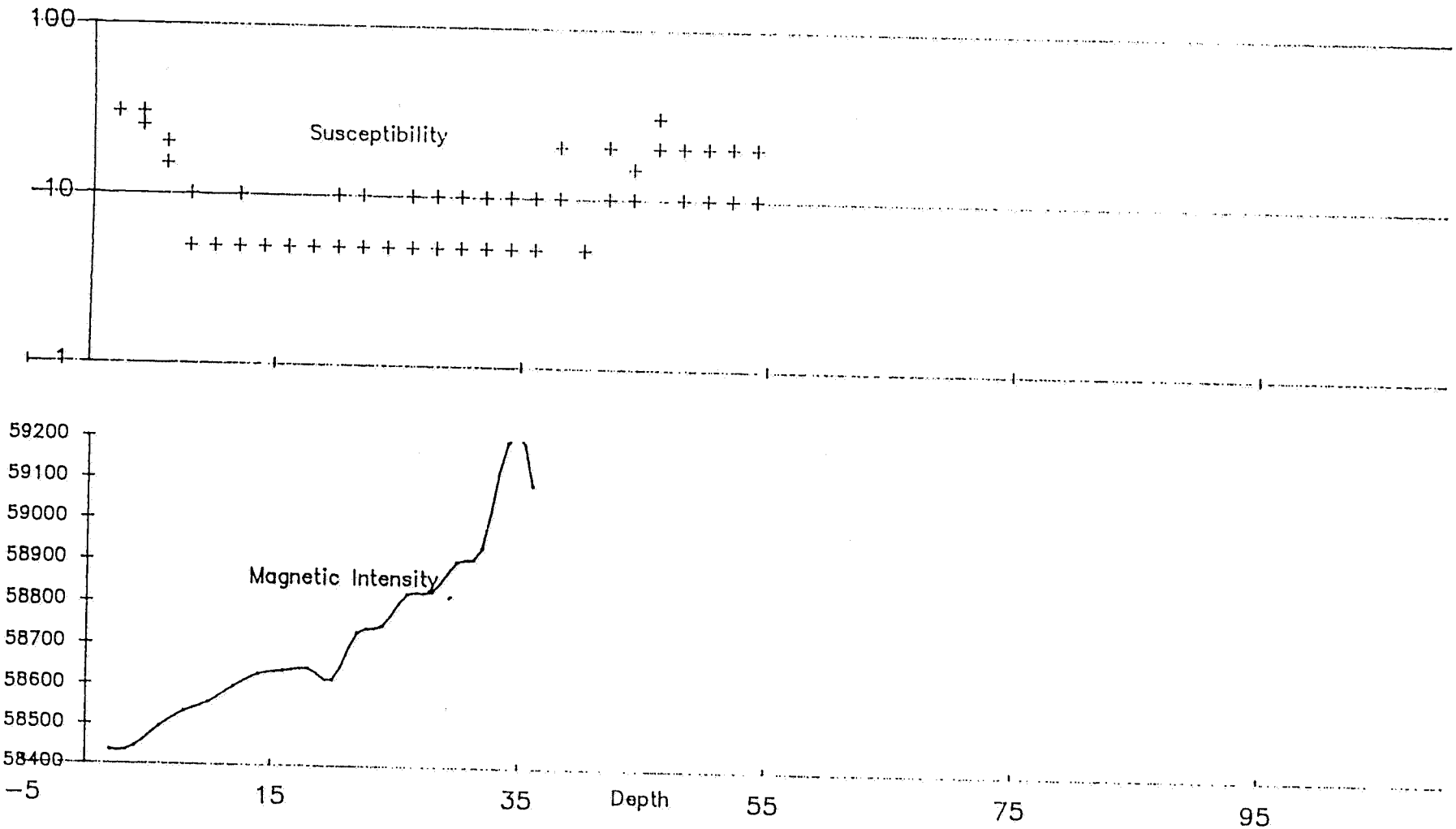
DRILL TYPE

DH No. 5536-4/W04 DH 1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPTIBILITY	DENSITY
														$\times 10^{-5}$ SI	
34	36							As above	34	36	X2946			5-10	
36	38							As above	36	38	X2947			10-20	
38	40							As above	38	40	X2948			<5	
40	42							Pale khaki clayey sand with 1mm angular quartz grains and fragments of micaceous basement rock	40	42	X2949			10-20	
42	44							As above	42	44	X2950			10-15	
44	46							Weathered, medium-grained, quartz/biotite/orthoclase grains	44	46	X2951			20-30	
46	48							As above, unweathered	46	44	X2952			10-20	
49	50							As above	48	50	X2953			10-20	
50	52							As above	50	52	X2954			10-20	
52	54							As above	52	54	X2955			10-20	
								END OF HOLE AT 54m							

BARTON – 55364W04 DH1

1:500



STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

PROJECT TARCOOLA/BARTON AREA BARTON Drillhole type RAB/HAMMER

CO-ORDS 612 208 (50E/100S LOCAL) DEC^LN 90° AZIMUTH — RL — DH No. 5536-4/W04 DH2

DATE COMMENCED 25·7·87 DATE COMPLETED 25·7·87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

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

FROM		LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	20-30			0-12 m Orange-brown and yellow-brown, fine-grained quartz sand and silt	X3029	
2						
4	40-50					
6			Qrs			
8	10-20					
10						
12				12-44 m White to pale brown, fine to medium-grained quartz sand.		
14	10-15					
16						
18	<5					
20						
22						
24						
26						
28						
30			Tap			
32						
34						
36						
38						
40	<5					
42						
44				44-48 m Silicified quartz/biotite/feldspar gneiss.		
46		~ ~	pEcm			
48	15	~ ~			X3052	
				END OF HOLE AT 48 m.		

SCALE: GEOLOGIST: DATE:

PROJECT TARCOOLA / BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB/HAMMER | DH No.: 5536-4/W04 DH2 | Page 1 of 3

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATIONS	MAGNETICS	SUSCEPT	DENSITY
														$\times 10^{-3}$ SI	
								HOLE: 5536-4/W04 DH2							
0	2							Orange-brown, fine-grained quartz sand and silt	0	2	×3029			20-30	
2	4							As above	2	4	×3030			40-50	
4	6							As above	4	6	×3031			20-30	
6	8							Yellow-brown, fine to medium-grained quartz sand and silt	6	8	×3032			10-20	
8	10							As above	8	10	×3033			5-10	
10	12							As above	10	12	×3034			10	
12	14							White, clean, well sorted, fine to medium-grained quartz sand	12	14	×3035			10-15	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB

DH No.: 5536-4/WOY DH2

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$SI	
14	16							As above	14	16	x3036			5-10	
16	18							As above	16	18	x3037			<5	
18	20							As above	18	20	x3038			<5	
20	22							As above	20	22	x3039			<5	
22	24							As above	22	24	x3040			<5	
24	26							As above	24	26	x3041			<5	
26	28							Very pale, yellow-white, well sorted, clean, fine to medium-grained quartz sand	26	28	x3042			<5	
28	30							As above	28	30	x3043			5-10	
30	32							As above	30	32	x3044			<5	
32	34							Very fine-grained, pale orange-brown quartz sand	32	34	x3045			<5	
34	36							As above	34	36	x3046			<5	
36	38							As above	36	38	x3047			<5	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/W04 DH2

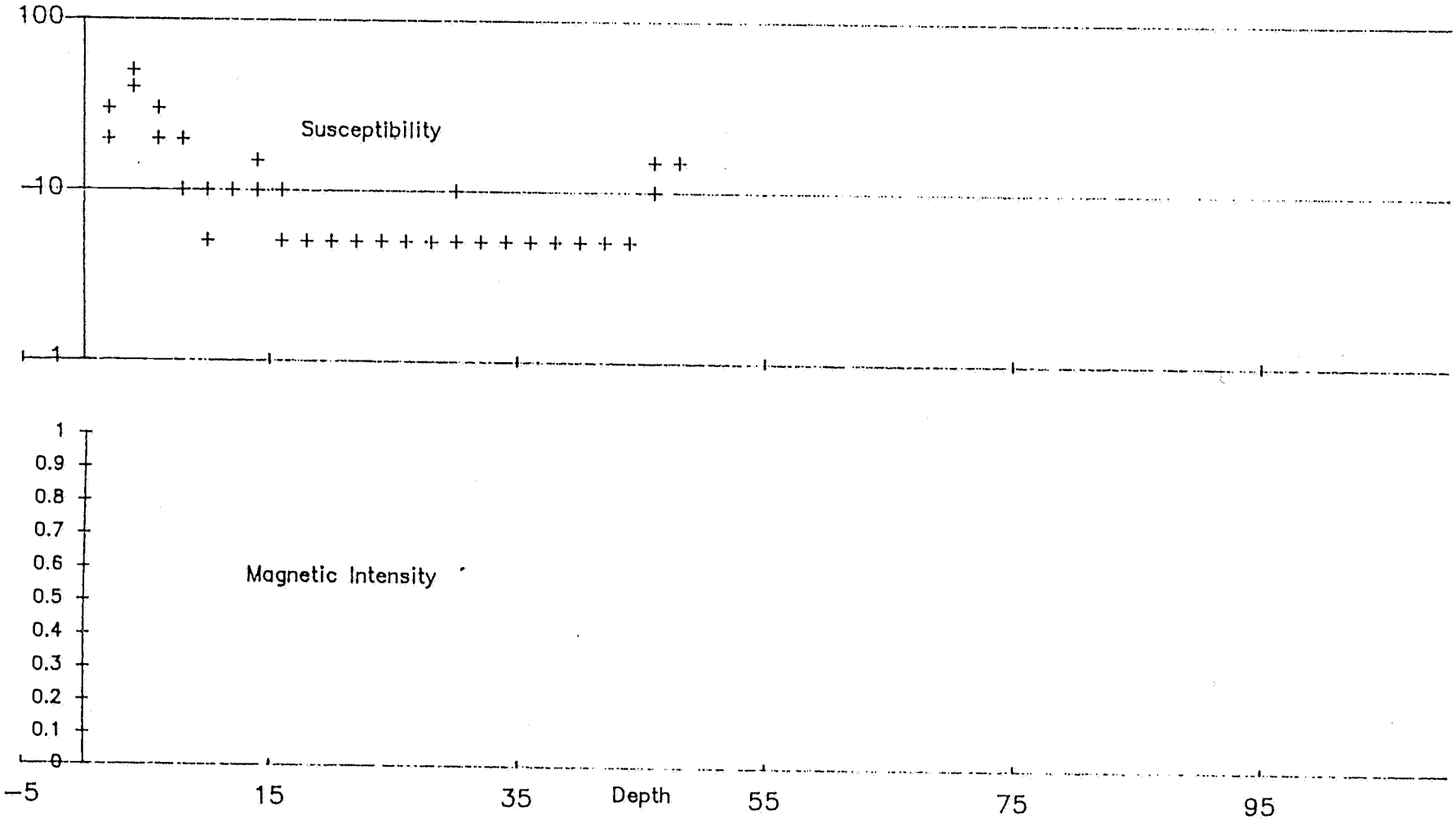
DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
38	40							As above
40	42							As above
42	44							Pale cream - orange, very fine grained quartz sand
44	46							Pale cream - orange, very fine grained quartz sand with abundant chips of siliceous micaceous basement rock
46	48							40% pink fine-grained silicate, 60% quartz/biotite/feldspar gneiss.
								END OF HOLE AT 48m

ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
38	40	X3048			<5	
40	42	X3049			<5	
42	44	X3050			<5	
44	46	X3051			10-15	
46	48	X3052			15	

4111

BARTON – 55364W04 DH2

1:500



STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA/BARTON | AREA BARTON | Drillhole type RAB/HAMMER

CO-ORDS 616 209 (25N/0N LOCAL) | DEC^LN 90° | AZIMUTH — | RL — | DH No. 5536-4/W05 DH1

DATE COMMENCED 24-7-87 | DATE COMPLETED 24-7-87 | DRILLED BY THOMPSON DRILLING | DRILL RIG T1000

Non Coring to: 74m | HQ Core to: — | NQ Core to: — | BQ Core to: — | EOH 74m

FROM	k (cm/s)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
2	20-30		Qrs	0-32m Red-brown and yellow-brown, fine to medium-grained quartz sand and silt with minor calcrete. Interval becomes clay rich toward base.	X2956	
4						
6						
8						
10	10					
12						
14						
16						
18						
20						
22						
24	10-20					
26						
28						
30						
32	10-20		Tep	32-46m Off-white and pale orange fine-grained, well sorted quartz sand. Minor silicification at top of interval.		
34	<5					
36						
38						
40	<5					
42						
44						
46	5-10			46-54m Pale brown, very fine-grained clayey quartz sand.		
48						
50						
52	5-10					
54			pfcm	54-68 Pale grey clay with fragments of weathered basement.		
56						
58						
60	10-20					
62						
64						
66						
68						
70	40-60			68-74m Dark grey, medium-grained, plagioclase/hornblende/ minor biotite amphibolite.	X2990	
72						
74	40-60			END OF HOLE AT 74m		

SCALE: | GEOLOGIST: | DATE.

PROJECT TARCOOLA / BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB

DH No.: 5536-4/W05 DH1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$SI	
								HOLE: 5536-4/W05 DH1							
0	2							Red-brown, fine-grained quartz sand and silt with minor calcrete	0	2	X2956			20-35	
2	4							As above	2	4	X2957			20-30	
4	6							As above	4	6	X2958			20-30	
6	8							As above	6	8	X2959			10-20	
8	10							Light yellow-brown fine-grained quartz sand and silt	8	10	X2960			30-40	
10	12							Light yellow-brown, medium-grained quartz sand	10	12	X2961			10	
12	14							As above	12	14	X2962			5-10	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/W05 DH 1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
14	16							Very pale, orange-cream, medium-grained, clean, well sorted quartz sand
16	18							As above
18	20							As above
20	22							Very fine-grained, mid-brown, quartz sand and clay
22	24							Fine and medium-grained, mid-brown clayey sand
24	26							As above
26	28							As above
28	30							As above
30	32							Fine and medium-grained, red-brown silty sand with 10% Fe cemented fragments.

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	CHAMOSITE	SUSCEPTIBILITY	DENSITY
14	16	X2963			$<5 \times 10^{-5}$ SI	
16	18	X2964			5-10	
18	20	X2965			10-20	
20	22	X2966			5-10	
22	24	X2967			10-20	
24	26	X2968			5-10	
26	28	X2969			5-15	
28	30	X2970			5-15	
30	32	X2971			10-20	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/WOS DH1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
32	34							Pale yellow-cream, medium-grained, clean, quartz sand with minor silcrete
34	36							As above
36	38							Pale tan, fine-grained, clean, well sorted quartz sand
38	40							Pale orange, medium-grained, well sorted quartz sand
40	42							Pale orange, fine-grained, well sorted quartz sand
42	44							As above
44	46							As above
46	48							Pale brown, very fine-grained, clayey quartz sand
48	50							As above

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	QUANTITATIVE	SUSCEPTIBILITY	DENSITY		
					$\times 10^{-5}$ SI			
32	34	X2972			<5			
34	36	X2973			<5			
36	38	X2974			<5			
38	40	X2975			<5			
40	42	X2976			5-10			
42	44	X2977			5-10			
44	46	X2978			5-10			
46	48	X2979			5-10			
48	50	X2980			5-10			

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/4105 DH1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
50	52							As above
52	54							Pale brown clay
54	56							Pale grey clay
56	58							Pale grey clay with fragments of plagioclase/hornblende/biotite rock
58	60							As above
60	62							Pale grey clay with abundant weathered fragments of plagioclase/hornblende/biotite, medium-grained basement rock.
62	64							" "
64	66							" "
66	68							" "
68	70							Hard basement of medium-grained dark grey, ~~gne~~ plagioclase/hornblende/biotite rock.

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	CHAMOISITE	SUSCEPT	DENSITY	
					$X10^{-5}$ SI		
50	52	X2981			5-10		
52	54	X2982			5-10		
54	56	X2983			10-20		
56	58	X2984			10-30		
58	60	X2985			10-20		
60	62	X2986			10-20		
62	64	X2987			20-30		
64	66	X2988			40-50		
66	68	X2989			30-40		
68	70	X2990			90-60		

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

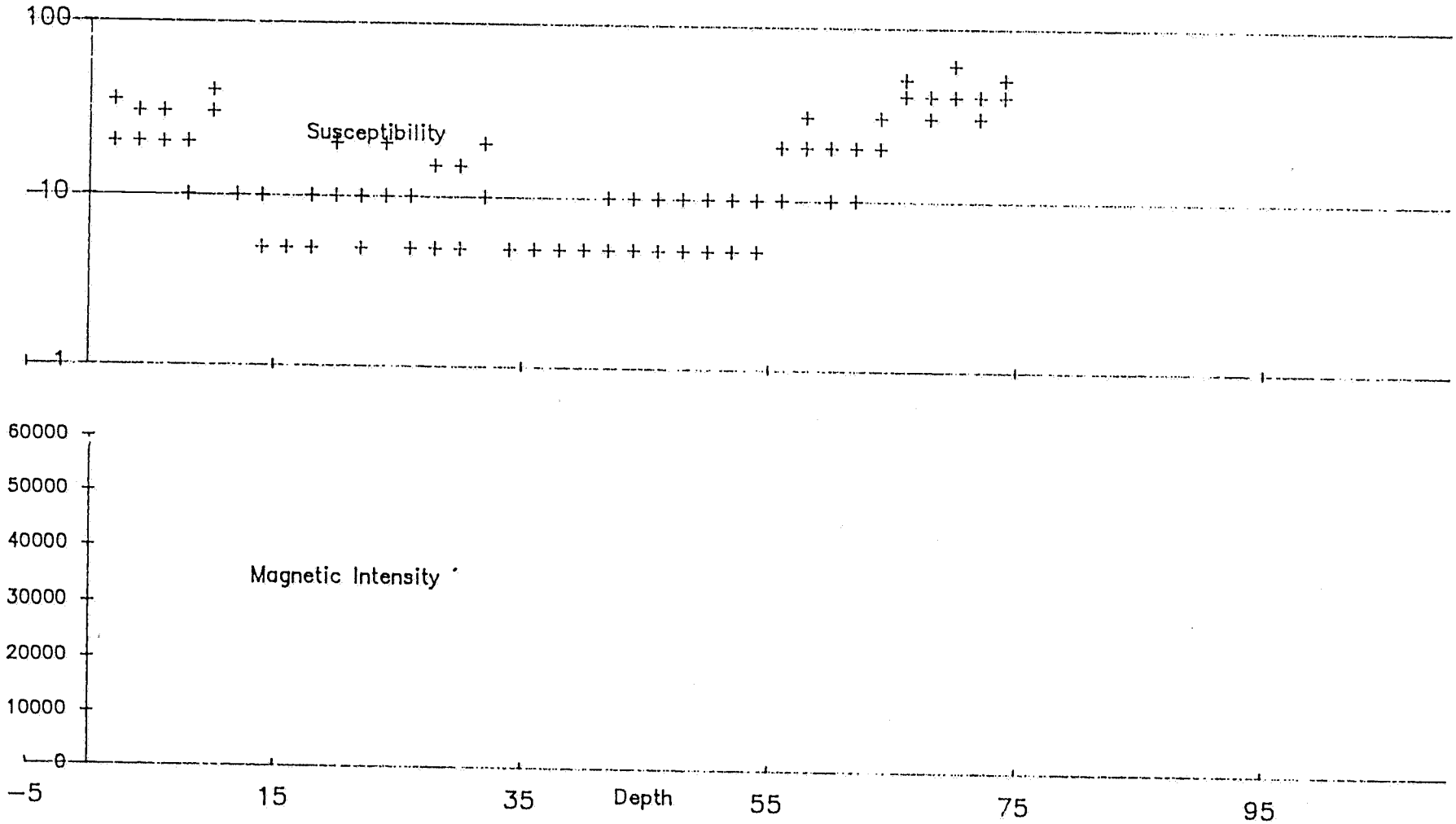
DII No. 5556-4/was DH1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
70	72							As above
72	74					X2992		As above Pet. Sample: "This is an amphibolite facies grade metamorphic rock composed mainly of plagioclase and amphibole which most likely represents a metamorphosed basic igneous rock." END OF HOLE AT 74m

ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	MAGNETIC	SUSCEPT	DENSITY
					X10^-5 SI	
70	72	X2991			30-40	
72	74	X2992			40-50	

BARTON -- 55364W05 DH1

1:500



STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA/BARTON AREA BARTON Drillhole type RAB

CO-ORDS 616 209 (50E/50N) DEC^{LN} 90° AZIMUTH — RL — DH No. 5536-4/W05 DH2

DATE COMMENCED 25.7.87 DATE COMPLETED 25.7.87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 72 m HQ Core to: — NQ Core to: — BQ Core to: — EOH 72 m

FROM	k (av)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	40-50			0-32m Red-brown and yellow-brown, fine to medium-grained quartz sand and silt	X2993	
2						
4						
6						
8	5-10					
10						
12						
14			Qrs			
16	10					
18	15-20					
20						
22						
24						
26						
28						
30	20-25					
32				32-50m Pale yellow to pale brown, fine-grained, well sorted quartz sand.		
34	5					
36						
38						
40			Tep			
42						
44						
46	5-10					
48						
50				50-66m Pale brown, and khaki clay with mica and weathered fragments of basement.		
52	5-10					
54						
56						
58						
60	20-30					
62			pCcm			
64						
66	70-80					
68				66-72m Medium-grained, dark-grey, plagioclase/biotite/hornblende amphibolite/gneiss.		
70	100-150					
72	60-75			END OF HOLE AT 72m	X3028	

SCALE: GEOLOGIST: DATE:

PROJECT TARCOOLA/BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE: RAB

DH No.: 5536-4/W05 DH2

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$X10^{-5}$SI	
								HOLE: 5536-4/W05 DH2							
0	2							Orange-brown, fine-grained, quartz sand and silt	0	2	X2993			40-50	
2	4							As above	2	4	X2994			35-40	
4	6							Dark orange-brown, fine-grained, quartz sand and silt.	4	6	X2995			20	
6	8							Yellow-brown, fine and medium grained quartz sand and silt	6	8	X2996			5-10	
8	10							As above							
10	12							Pale yellow, medium-grained, quartz sand	10	12	X2998			5-10	
12	14							As above	12	14	X2999			5-10	

4221

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/W05 DH 2

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	To	SAMPLE No.	INDICATORS	EXAMINED	SUSCEPT	DENSITY		
														$\times 10^{-5}$ SI			
14	16							Yellow-brown, fine and medium grained quartz sand with silcrete common	14	16	X3000			10			
16	18							As above	16	18	X3001			30-40			
18	20							As above	18	20	X3002			15-20			
20	22							As above	20	22	X3003			30-35			
22	24							As above	22	24	X3004			20-25			
24	26							Orange-brown, fine-grained silty quartz sand	24	26	X3005			25-30			
26	28							As above	26	28	X3006			10-15			
28	30							As above, Fe cemented fragments common	28	30	X3007			20-25			
30	32							As above	30	32	X3008			15-20			
32	34							Pale yellow, medium-grained, well sorted quartz sand	32	34	X3009			15-20			422

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/WOS DH 2

Page 3 of 1

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
34	36							As above
36	38							As above
38	40							Pale yellow, fine-grained, well sorted quartz sand
40	42							Pale yellow-orange, fine-grained quartz sand
42	44							As above
44	46							As above
46	48							Pale tan, fine-grained quartz sand
48	50							Light orange-brown, very fine-grained quartz sand
50	52							Pale orange-brown clay with chips of bleached basement rock

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATIONS	MAGNETIC SUSCEPT	DENSITY
34	36	X3010		$\times 10^{-5}$ SI 5	
36	38	X3011		<5	
38	40	X3012		20-25	
40	42	X3013		<5	
42	44	X3014		<5	
44	46	X3015		5-10	
46	48	X3016		5-10	
48	50	X3017		20-25	
50	52	X3018		15-20	

4223

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/W05 DH2

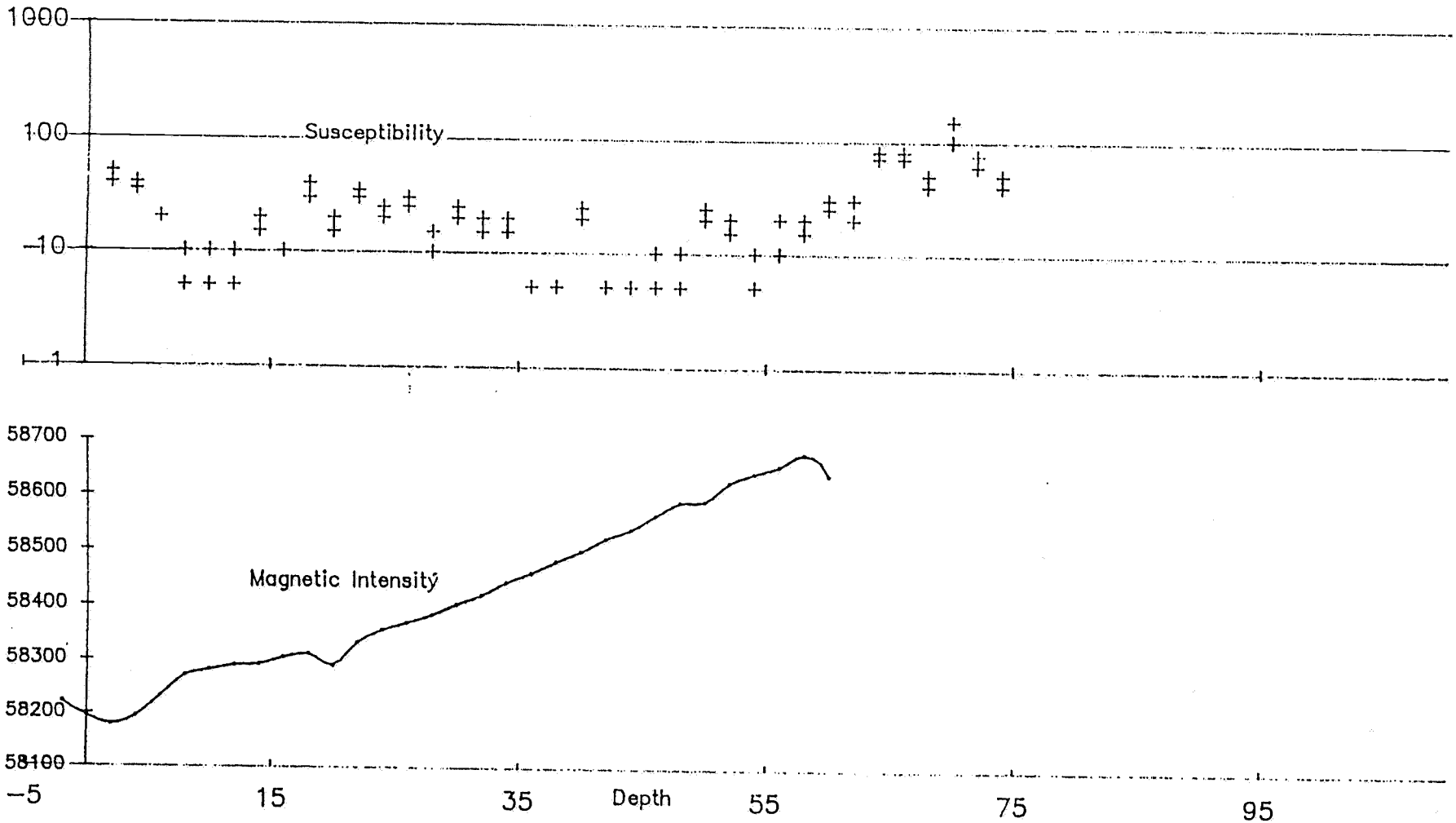
DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
52	54							Pale brown clay with chips of bleached feldspathic, micaceous basement rock common.
54	56							70% bleached, feldspathic, micaceous basement rock; 30% pale brown clay.
56	58							As above
58	60							Pale green-brown micaceous clay
60	62							" "
62	64							Khaki, highly micaceous clay
64	66							Khaki, micaceous clay with abundant plagioclase fragments.
66	68							Hard basement of plagioclase/biotite/hornblende amphibolite/gneiss similar to 5536-4/W05 DH1.
68	70							" "
70	72							" "
								END OF HOLE AT 72 m

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	DISCEPT	TENSITY		
					$\times 10^{-3}$ SI			
52	54	X3019			5-10			
54	56	X3020			10-20			
56	58	X3021			15-20			
58	60	X3022			25-30			
60	62	X3023			20-30			
62	64	X3024			70-80			
64	66	X3025			70-80			
66	68	X3026			40-50			
68	70	X3027			100-150			
70	72	X3028			60-75			

BARTON 55364W05 DH2

1:500



STOCKDALE PROSPECTING LTD.

DRILLHOLE LOG SUMMARY SHEET

Page 1 of 1

PROJECT TARCOOLA / BARTON AREA BARTON Drillhole type RAB

CO-ORDS 616 199 (OW/ON LOCAL) DEC^{LN} 90° AZIMUTH — RL — DH No. SSJG-4/W15

DATE COMMENCED 18-7-87 DATE COMPLETED 18-7-87 DRILLED BY THOMPSON DRILLING DRILL RIG T1000

Non Coring to: 68 m HQ Core to: — NQ Core to: — BQ Core to: — EOH 68 m

FROM	K (av)	LOG		FIELD DESCRIPTION	SAMPLE No.	RESULTS
0	15-20		Qrs	0-7 m Red-brown and orange brown, fine-grained aeolian quartz sand and silt, with up to 20% calcrete.	X2609	
8	<5		Tsi	7-8 m Maroon-red silcrete.		
10				8-14 m Yellow-brown, fine and medium-grained quartz sand		
16	10-20					
18	5-10		Tep	14-38 m White to light grey clay.		
38	<5					
40	20-40		pfcm	38-62 m Brown clay with haematitic and limonitic fragments. Weathered basement.		
52	20-40					
58	100-200					
62	7000-10000					
64	3000-6000			62-68 m Weathered banded iron formation.		
68	6000-7000			END OF HOLE AT 68 m	X2642	

SCALE: GEOLOGIST: DATE

PROJECT TARCOOLA / BARTON

AREA BARTON

DETAILED DRILLHOLE LOG

DRILL TYPE RAB | DH No. 5536-4/W15 | Page 1 of 5

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATIONS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$SI	
								HOLE: 5536-4/W15							
(1)	2							Red-brown, fine-grained, quartz sand and silt	0	2	X2609			15-20	
2	4							80% orange-brown, fine-grained quartz sand; 20% calcrete	2	4	X2610			10-15	
4	6							Pale brown, fine to medium-grained clayey quartz sand	4	6	X2611			5-10	
6	8							Pale yellow, fine-grained well sorted quartz sand with abundant Fe cemented fragments and weathered silcrete.	6	8	X2612			<5	
8	10							80% Poorly sorted, fine-grained, pale yellow quartz sand; 20% medium to coarse-grained silica cemented fragments	8	10	X2613			<5	

4217

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/WS

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
10	12							Yellow-grey, poorly sorted, medium-grained quartz sand with 20% siltstone and 1-3mm quartz granules
12	14							As above
14	16							Light yellow-brown, fine grained quartz sand with 10% chips of siltstone. Minor clay in sample
16	18							As above
18	20							80% Mid brown clay; 20% very fine-grained quartz sand
20	22							As above
22	24							30% mid brown clay; 10% very fine-grained quartz sand; 60% fine, white, siliceous claystone
24	26							Light grey clay

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY	
					$\times 10^{-5}$ SI		
10	12	X2614			5-10		
12	14	X2615			<5		
14	16	X2616			10-20		
16	18	X2617			10-20		
18	20	X2618			5-10		
20	22	X2619			10-20		
22	24	X2620			5-10		
24	26	X2621			5-10		

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/W15

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY		
														$\times 10^{-5}$SI			
26	28							White to light grey clay	26	28	X2622			5-10			
28	30							White to light grey clay with a small component of maroon clay	28	30	X2623			5-10			
30	32							White clay	30	32	X2624			5			
32	34							As above	32	34	X2625			<5			
34	36							Pale pink clay	36	36	X2626			<5			
36	38							Pink - maroon clay	36	38	X2627			5			
38	40							Pink clay with several ironstone fragments	38	40	X2628			0-10			
40	42							80% chocolate brown clay ; 20% 1-1.5cm irregular haematitic fragments	40	42	X2629			20			
42	44							As above	42	44	X2630			20-40			
44	46							As above	44	46	X2631			30-80			

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/W15

DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation	ANALYTICAL DATA DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
														$\times 10^{-5}$ SI	
46	48							Chocolate brown clay with only sparse haematitic fragments	46	48	X2632			20-30	
48	50							Dark olive brown clay	48	50	X2633			40-70	
50	52							Chocolate brown clay with sparse haematitic fragments and minor magnetite	50	52	X2634			20-40	
52	54							Chocolate brown clay with abundant irregular haematitic fragments and minor magnetite	52	54	X2635			10-20	
54	56							As above	54	56	X2636			10-30	
56	58							Dark brown clay with 10% quartz, quartz/limonite and quartz/limonite/magnetite fragments	56	58	X2637			100-200	
58	60							As above	58	60	X2638			4000-7000	
60	62							As above with very abundant finely divided magnetite	60	62	X2639			7000-10,000	

PROJECT

AREA

DETAILED DRILLHOLE LOG

DRILL TYPE

DH No. 5536-4/W5

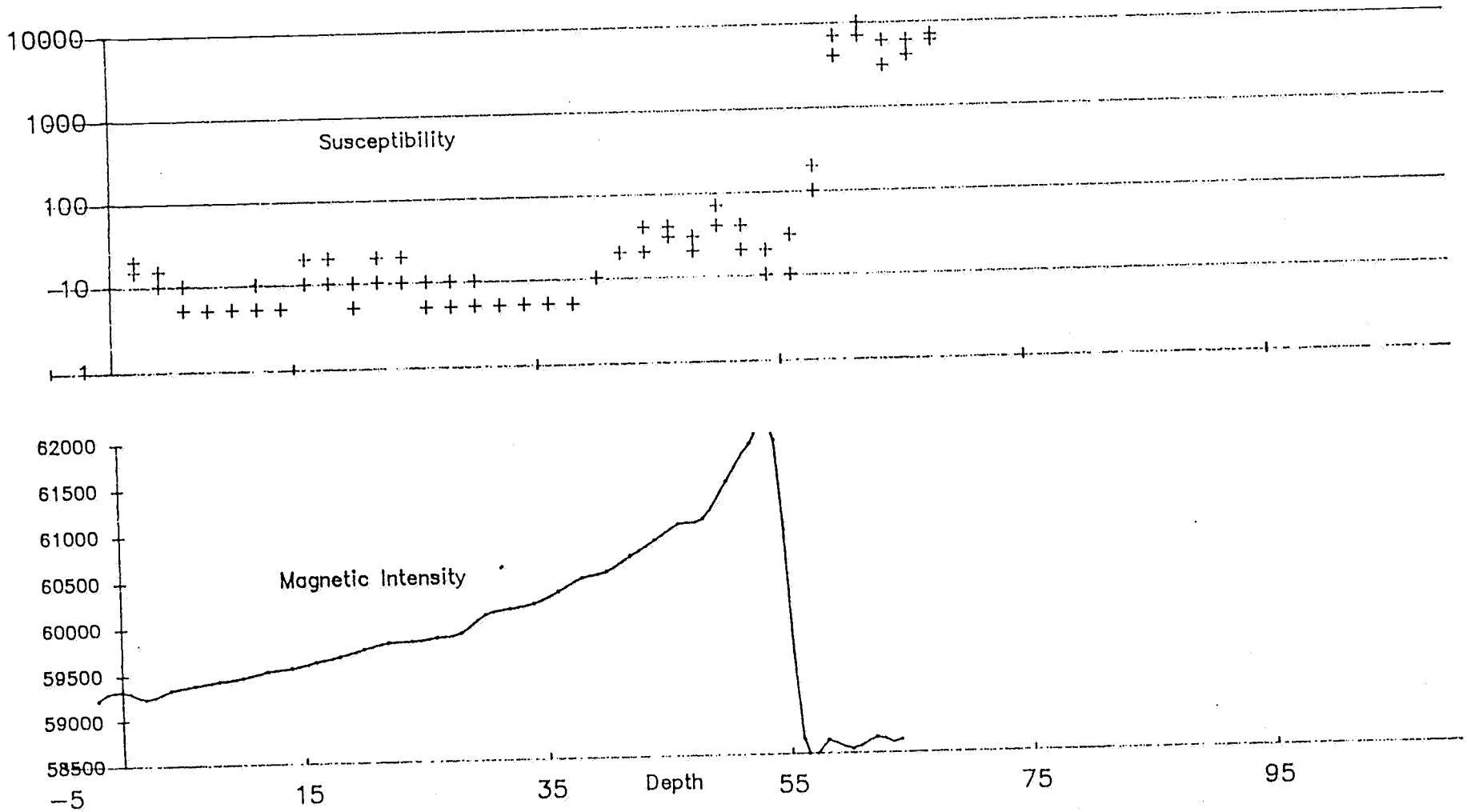
DEPTH From	DEPTH To	SAMPLE/CORE RECOVERY Max	Actual	%	DEPTH	PETRO SAMPLE No	CORE ANGLE	DESCRIPTION Include Depth to Oxidation
62	64							Chocolate brown clay with chips of earthy limonite and limonite/quartz/magnetite rock
64	66							As above
66	68				X2642			Pet. Sample "This sample consists of an amphibolite facies grade metamorphic rock comprised mainly of quartz and opaque to translucent reddish-brown iron oxides although localized concentrations of biotite or amphibole are also present. The iron oxide and quartz rich nature of this sample suggests it is a banded iron formation." END OF HOLE AT 68 m

ANALYTICAL DATA

DEPTH From	DEPTH To	SAMPLE No.	INDICATORS	DIAMONDS	SUSCEPT	DENSITY
					$\times 10^{-5}$ SI	
62	64	X2640			7000-6000	
64	66	X2641			4000-6000	
66	68	X2642			6000-7000	

BARTON -- 55364W15 DH1

1:500



APPENDIX VIII

20th Quarter to 2 June, 1988 (SPL)

1987 Drilling : Au Pd analysis results

20th 1/4 to 2nd June'88

APPENDIX 1
1987 DRILLING PROGRAMME

Au, Pd, ANALYSIS RESULTS

435

MQRESRPT

GLD AMERICAN CORPORATION OF SOUTH AFRICA LIMITED.
ANGLO AMERICAN RESEARCH LABORATORIES - CROWN MINES
EXPLORATION SAMPLE INFORMATION SYSTEM (EXSIS)

08:28 02/03/88 PAGE 1

ANALYTICAL RESULTS FOR GD870864

G NUMBER : GD870864

FIELD REFERENCE : MBHRR/87/94

LAB REFERENCE : BB870817

SAMPLE TYPE : LOAM

DATE REPORTED : 25/02/88

NO SAMPLES : 33

PREPROCESSING : NOT APPLICABLE

ANALYTICAL METHOD : AAGEOFM

QUARTER DEGREES : 5309SH

DIGESTION : GTH/HBR/BR

DETECTION LIMIT : 02

ELEMENTS ANALYSED : AU PD

LAB COMMENTS :

BARTON DH

G NUMBER : GD870864

FIELD REFERENCE : MBHRR/87/94

LAB REFERENCE : BB870817

STANDARD RESULT COMMENTS :

A - ADJUSTMENT FACTOR
B - CONVERTED BY CORRELATION COEFFICIENTS
C - CALIBRATION OVERFLOW
D - APPROXIMATE RESULT
E - ENHANCED RESULT
I - INSUFFICIENT SAMPLE FOR ANALYSIS
L - LOW SAMPLE MASS
M - MISSING SAMPLE
N - NOT DETERMINED
P - GRID COORDINATE/PERCUSSION HOLE
R - REDUCED MASS SAMPLE
S - RESULT BY DIFFERENT METHOD
T - BAD MAJOR ELEMENTS TOTAL
U - UNCONFIRMED RESULT
X - SPECTRAL INTERFERENCE

ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED.
ANGLO AMERICAN RESEARCH LABORATORIES - CROWN MINES
EXPLORATION SAMPLE INFORMATION SYSTEM (EXSIS)

G NUMBER : GD870864

ANALYTICAL RESULTS FOR GD870864

G NUMBER : GD870864

	SAMPLE NO	AU PB		FD PB			SAMPLE NO	AU PB	FD PB
X	03152	I	0	M	0	X	03243	9	0
X	03153		5		6	X	03244	0	0
X	03154		0		8	X	03257	7	0
X	03200		0		0	X	03258	14	6
X	03201		0		0	X	03261	13	0
X	03202		0		0	X	03262	0	0
X	03211		0		0	X	03263	0	0
X	03217		7		14	X	03264	0	0
X	03224		9		0	X	03266	11	21
X	03226		0		20	X	03269	0	0
X	03227		8		18	X	03271	0	7
X	03228		9		0	X	03276	6	18
X	03229		0		0	X	03277	18	0
X	03230		0		0	X	03278	7	0
X	03231		0		0	X	03279	0	0
X	03235	I	0	M	0	X	03280	15	0
X	03237		0		0				

*** END OF REPORT ***

437

MQRESRPT

ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED. 08:28 02/03/88 PAGE 1
ANGLO AMERICAN RESEARCH LABORATORIES - CROWN MINES
EXPLORATION SAMPLE INFORMATION SYSTEM (EXSIS)

ANALYTICAL RESULTS FOR GD870865

G NUMBER : GD870865 G NUMBER : GD870865
FIELD REFERENCE : MBHRR/87/95 FIELD REFERENCE : MBHRR/87/95
LAB REFERENCE : BB870818 SAMPLE TYPE : LOAM LAB REFERENCE : BB870818
DATE REPORTED : 25/02/88 NO SAMPLES : 36
PREPROCESSING : NOT APPLICABLE
ANALYTICAL METHOD : AAGEOPM QUARTER : 5309SH
DIGESTION : GTH/HBR/BR DEGREES :
DETECTION LIMIT : 02
ELEMENTS ANALYSED : AU PD
LAB COMMENTS :

BARTON

STANDARD RESULT COMMENTS :
A - ADJUSTMENT FACTOR
B - CONVERTED BY CORRELATION COEFFICIENTS
C - CALIBRATION OVERFLOW
D - APPROXIMATE RESULT
E - ENHANCED RESULT
I - INSUFFICIENT SAMPLE FOR ANALYSIS
L - LOW SAMPLE MASS
M - MISSING SAMPLE
N - NOT DETERMINED
P - GRID COORDINATE/PERCUSSION HOLE
R - REDUCED MASS SAMPLE
S - RESULT BY DIFFERENT METHOD
T - BAD MAJOR ELEMENTS TOTAL
U - UNCONFIRMED RESULT
X - SPECTRAL INTERFERENCE

G NUMBER : GD870865

ANALYTICAL RESULTS FOR GD870865

G NUMBER : GD870865

	SAMPLE NO	AU PE		PD PE	
X	03120	6		0	
X	03123	0		0	
X	03147	15		5	
X	03150	8		25	
X	03151	16	F	0	
X	03203	17		0	
X	03212	13		0	
X	03213	0		0	
X	03214	0		0	
X	03215	0		10	
X	03216	6		5	
X	03218	0		10	
X	03219	0		0	
X	03220	0		0	
X	03221	14		0	
X	03222	16		25	
X	03223	10		0	
X	03232	0		0	
X	03233	0		0	
X	03234	17		17	
X	03236	10	F	0	
X	03238	19		0	
X	03239	0		0	
X	03240	0	F	0	
X	03241	0	F	0	
X	03242	0		6	
X	03259	5		23	
X	03260	2		0	
X	03265	0		5	
X	03267	0		0	
X	03268	0		0	
X	03270	88		32	
X	03272	11		0	
X	03273	20		0	
X	03274	0		0	
X	03275	0		0	

*** END OF REPORT ***

MQRESRFT

ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED. 08:28 02/03/88 PAGE 1
ANGLO AMERICAN RESEARCH LABORATORIES - CROWN MINES
EXPLORATION SAMPLE INFORMATION SYSTEM (EXSIS)

ANALYTICAL RESULTS FOR GD870860

G NUMBER : GD870860

G NUMBER : GD870860
FIELD REFERENCE : MBHRR/87/92
LAB REFERENCE : BB870815
DATE REPORTED : 25/02/88
PREPROCESSING : NOT APPLICABLE
ANALYTICAL METHOD : AAGEOPM
DIGESTION : GTH/HBR/BR
DETECTION LIMIT : 02
ELEMENTS ANALYSED : AU PD
LAB COMMENTS : 2619 ON ARE SHOULD BE 2629.
LAST SAMPLE 3120 NOT RECEIVED.

SAMPLE TYPE : LOAM
NO SAMPLES : 300
QUARTER DEGREES : 5309SH

FIELD REFERENCE : MBHRR/87/92
LAB REFERENCE : BB870815

STANDARD RESULT COMMENTS :
A - ADJUSTMENT FACTOR
B - CONVERTED BY CORRELATION COEFFICIENTS
C - CALIBRATION OVERFLOW
D - APPROXIMATE RESULT
E - ENHANCED RESULT
I - INSUFFICIENT SAMPLE FOR ANALYSIS
L - LOW SAMPLE MASS
M - MISSING SAMPLE
N - NOT DETERMINED
P - GRID COORDINATE/PERCUSSION HOLE
R - REDUCED MASS SAMPLE
S - RESULT BY DIFFERENT METHOD
T - BAD MAJOR ELEMENTS TOTAL
U - UNCONFIRMED RESULT
X - SPECTRAL INTERFERENCE

440

G NUMBER : GD870860

ANALYTICAL RESULTS FOR GD870860

G NUMBER : GD870860

SAMPLE NO	AU PB		FD PB	
X 02014	F	18	F	52
X 02015	F	20	F	0
X 02019		16		0
X 02020		0		0
X 02023		12		0
X 02024		0		0
X 02026		0		0
X 02027		9		0
X 02028		0		28
X 02029		15		0
X 02121		0		0
X 02205		0		0
X 02206		5		0
X 02207		0		0
X 02208		0		0
X 02209	F	18	F	0
X 02210		0		6
X 02291		5		0
X 02292		0		9
X 02293		0		0
X 02294		0		0
X 02295		6		7
X 02296	F	12	F	0
X 02297		0		0
X 02298		11		0
X 02299		0		11
X 02312		0		27
X 02313		9		0
X 02314		0		0
X 02315		8		13
X 02316		9		27
X 02317		6		0
X 02318	F	0	F	14
X 02319		0		0
X 02320	F	18	F	32
X 02321		0		24
X 02322		5		15
X 02343		14		0
X 02344		0		8
X 02345		0		0
X 02346		11		6
X 02347		0		0
X 02348		0		5
X 02353		0		0
X 02354		5		0
X 02355		0		0
X 02357	F	0	F	18
X 02358		5		0
X 02359		0		0
X 02360		6		0

SAMPLE NO	AU PB		FD PB	
X 02361		0		33
X 02362		16		17
X 02363		5		0
X 02364		0		8
X 02365		0		0
X 02366		0		0
X 02367		22		0
X 02368		0		0
X 02523		21		0
X 02524		0		0
X 02525		0		7
X 02527		5		0
X 02528		0		8
X 02529		0		0
X 02530		0		0
X 02531		10		0
X 02532		0		0
X 02533		0		8
X 02534		0		0
X 02551	F	0	F	12
X 02564		5		6
X 02565		5		0
X 02566		5	F	32
X 02567	F	0		0
X 02568		11		0
X 02583	F	0	F	0
X 02584	F	0	F	0
X 02585	F	0	F	0
X 02800		0		0
X 02802		0		0
X 02804		37		0
X 02805		0		14
X 02806		0		0
X 02890		6		17
X 02892		0		0
X 02893		7		0
X 02909		13		0
X 02910		0		0
X 02911		6		0
X 02913		0		6
X 02914		12		0
X 02915		0		0
X 02916		10		0
X 02918		0		0
X 02919		8		9
X 02920		0		0
X 02921		0		0
X 02922		11		18
X 02923		0		12
X 02924		7		36

HQRESRPT

ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED.
ANGLO AMERICAN RESEARCH LABORATORIES - CROWN MINES
EXPLORATION SAMPLE INFORMATION SYSTEM (EXSIS)

08:28

G NUMBER : GD870860

ANALYTICAL RESULTS FOR GD870860

G NUMBER : GD870860

	SAMPLE NO	AU PB		FD PB	
X	02925	0		0	
X	02926	0		0	
X	02949	0		5	
X	02950	0		5	
X	02952	0		7	
X	02987	0		5	
X	02988	0		5	
X	02990	0		0	
X	02991	6		21	
X	03159	9		0	
X	03162	0		9	
X	03163	5		0	
X	03164	0		7	
X	03166	5		0	
X	03171	11		0	
X	03180	0		0	
X	03181	0		0	
X	03182	0		15	
X	03184	0		6	
X	03185	12		0	
X	03186	0		0	
X	03188	0		7	
X	03189	0		0	
X	03190	10		0	
X	03192	7		17	
X	02080	0		0	
X	02081	0		0	
X	02082	10		0	
X	02083	0		0	
X	02102	0		18	
X	02103	0	F	0	F
X	02104	0		0	
X	02105	0		0	
X	02117	12		0	
X	02128	0		9	
X	02129	11		0	
X	02130	0		15	
X	02133	0		5	
X	02154	6		9	
X	02155	0		0	
X	02156	0		8	
X	02157	5		0	
X	02159	0	F	0	F
X	02160	0		13	
X	02211	6		10	
X	02212	5		14	
X	02213	5		5	
X	02214	12		0	
X	02215	14		0	
X	02260	0		10	

	SAMPLE NO	AU PB		FD PB	
X	02261	0		0	
X	02267	8		12	
X	02270	0		0	
X	02271	10		0	
X	02277	17		29	
X	02278	0		0	
X	02435	0		0	
X	02436	0		10	
X	02437	0		0	
X	02438	5		0	
X	02439	11		0	
X	02440	0		9	
X	02441	7		5	
X	02442	0		0	
X	02466	0	F	0	F
X	02467	0	F	0	F
X	02468	8		0	
X	02469	6		0	
X	02470	0		0	
X	02471	6		6	
X	02472	14		0	
X	02473	0		16	
X	02474	6		0	
X	02475	0		14	
X	02476	5		0	
X	02477	13		0	
X	02478	0		0	
X	02480	0	F	0	F
X	02506	0		0	
X	02507	0		14	
X	02508	0		17	
X	02509	0		0	
X	02510	7		0	
X	02511	0		5	
X	02512	0		5	
X	02513	0		0	
X	02514	12		7	
X	02515	13		0	
X	02516	5		7	
X	02517	10		21	
X	02518	11		0	
X	02519	21		0	
X	02520	11		0	
X	02521	0		0	
X	02522	0		10	
X	02552	0		8	
X	02553	5		16	
X	02554	0		5	
X	02555	0		15	
X	02557	7		0	

ANGLO AMERICAN RESEARCH LABORATORIES - CROWN MINES
EXPLORATION SAMPLE INFORMATION SYSTEM (EXSIS)

G NUMBER : GD870860 — ANALYTICAL RESULTS FOR GD870860 — G NUMBER : GD870860

	SAMPLE NO	AU PB		FD PB			SAMPLE NO	AU PB		FD PB	
X	02558	9		0		X	02745	0		0	
X	02559	0		0		X	02748	5		17	
X	02560	11		0		X	02807	0		8	
X	02561	0		0		X	02808	0		12	
X	02562	0		8		X	02909	0		0	
X	02563	0		0		X	02810	0		0	
X	02600	5		10		X	02811	0		0	
X	02601	0		0		X	02812	0		8	
X	02602	0		10		X	02813	0		26	
X	02603	0		0		X	02814	0		0	
X	02604	5		0		X	02836	0		8	
X	02605	0		7		X	02837	5		7	
X	02606	0		5		X	02838	0		0	
X	02607	0		0		X	02839	0		0	
X	02608	6		0		X	02840	0		0	
X	02621	0		0		X	02881	0		0	
X	02622	0		0		X	02882	0		0	
X	02623	0		0		X	02883	5		0	
X	02624	0		30		X	02884	0		0	
X	02625	0		0		X	02886	0		11	
X	02626	0		0		X	02887	5		0	
X	02627	0		0		X	02888	0		0	
X	02628	0		0		X	02953	0		0	
X	02629	7		0		X	02954	0		0	
X	02635	5		0		X	02984	16		0	
X	02636	8		0		X	02985	0		25	
X	02637	21		0		X	03019	0		0	
X	02677	0		0		X	03020	0		0	
X	02678	F 0	F	0		X	03021	0		17	
X	02679	F 0	F	0		X	03022	0		0	
X	02680	0		0		X	03023	0		7	
X	02681	0		0		X	03024	14		0	
X	02701	20		12		X	03025	0		0	
X	02702	6		0		X	03027	9		18	
X	02720	8		5		X	03051	0		8	
X	02724	0		0		X	03057	5		0	
X	02725	0		0		X	03060	0		0	
X	02726	0		0		X	03061	0		0	
X	02727	0		11		X	03064	F 16	F	0	
X	02728	0		0		X	03067	0		0	
X	02729	0		0		X	03089	0		0	
X	02730	5		0		X	03090	0		8	
X	02734	6		0		X	03092	10		5	
X	02736	0		0		X	03093	0		0	
X	02737	8		33		X	03096	0		0	
X	02738	0		0		X	03097	17		0	
X	02741	0		35		X	03099	0		0	
X	02742	9		24		X	03102	F 12	F	0	
X	02743	5		7		X	03112	0		5	
X	02744	0		0		X	03117	0		0	

443

G NUMBER : GD870860 ANALYTICAL RESULTS FOR GD870860 G NUMBER : GD870860

SAMPLE NO	AU FB	PD FB	SAMPLE NO	AU FB	PD FB

*** END OF REPORT ***

444

MQRESRPT

ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED
ANGLO AMERICAN RESEARCH LABORATORIES - CROWN MINES
EXPLORATION SAMPLE INFORMATION SYSTEM (EXSIS)

14:41 19/02/88 PAGE 1

ANALYTICAL RESULTS FOR GD870859

G NUMBER ******** : GD870859 ********

FIELD REFERENCE : MBHRR/87/91

LAB REFERENCE : BB870814

DATE REPORTED : 16/02/88

PREPROCESSING : NOT APPLICABLE

ANALYTICAL METHOD : AAGEOPM

DIGESTION : GTH/HBR

DETECTION LIMIT : 02

ELEMENTS ANALYSED : AU PD

LAB COMMENTS :

SAMPLE TYPE : LOAM

NO SAMPLES : 186

QUARTER DEGREES : 5309SH

Barton

STANDARD RESULT COMMENTS :

A - ADJUSTMENT FACTOR
B - CONVERTED BY CORRELATION COEFFICIENTS
C - CALIBRATION OVERFLOW
D - APPROXIMATE RESULT
E - ENHANCED RESULT
I - INSUFFICIENT SAMPLE FOR ANALYSIS
L - LOW SAMPLE MASS
M - MISSING SAMPLE
N - NOT DETERMINED
P - GRID COORDINATE/PERCUSSION HOLE
R - REDUCED MASS SAMPLE
S - RESULT BY DIFFERENT METHOD
T - BAD MAJOR ELEMENTS TOTAL
U - UNCONFIRMED RESULT
X - SPECTRAL INTERFERENCE

G NUMBER ********** ******** : GD870859

FIELD REFERENCE : MBHRR/87/91

LAB REFERENCE : BB870814

G NUMBER : GD870859

ANALYTICAL RESULTS FOR GD870859

G NUMBER : GD870859

	SAMPLE NO	AU PB	PD PB
X	02016	0	0
X	02017	8	6
X	02021	32	0
X	02022	0	5
X	02025	0	0
X	02106	0	0
X	02116	5	0
X	02118	0	8
X	02119	0	0
X	02120	17	0
X	02122	0	19
X	02123	0	0
X	02124	5	14
X	02126	0	0
X	02127	7	0
X	02131	0	11
X	02132	0	20
X	02161	11	0
X	02162	0	0
X	02163	0	21
X	02164	0	7
X	02262	5	0
X	02263	0	0
X	02264	0	0
X	02265	0	0
X	02266	0	0
X	02268	12	32
X	02269	5	0
X	02270	0	25
X	02290	8	0
X	02323	11	15
X	02324	8	0
X	02325	0	0
X	02326	8	34
X	02327	0	0
X	02328	20	0
X	02329	13	17
X	02330	0	0
X	02331	0	0
X	02332	5	28
X	02333	0	0
X	02335	0	0
X	02336	9	2
X	02349	0	14
X	02350	0	14
X	02351	15	23
X	02352	0	0
X	02526	0	25
X	02801	14	9
X	02891	0	6
X	02927	10	0
X	02951	0	13
X	02981	0	0
X	02982	5	22
X	02983	0	0
X	02986	14	0
X	02989	20	0
X	02992	10	12
X	02995	7	6
X	03155	7	5
X	03156	9	0
X	03157	0	0
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X	03160	13	7
X	03161	0	0
X	03165	6	0
X	03167	5	0
X	03168	13	6
X	03169	5	0
X	03172	7	0
X	03173	0	0
X	03174	0	12
X	03178	8	10
X	03179	12	24
X	03183	0	5
X	03187	0	17
X	03191	0	0
X	03193	0	0
X	03194	22	34
X	03195	18	0
X	03196	10	0
X	03197	17	20
X	03198	0	0
X	03199	0	35
X	02216	7	0
X	02217	14	0
X	02218	0	7
X	02219	12	0
X	02220	12	0
X	02221	7	23
X	02234	17	30
X	02369	0	32
X	02424	0	10
X	02379	0	0
X	02370	0	0
X	02391	5	0
X	02382	8	0
X	02434	0	0
X	02479	0	0
X	02481	0	0

HQRESRPT

ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED.
ANGLO AMERICAN RESEARCH LABORATORIES - CROWN MINES
EXPLORATION SAMPLE INFORMATION SYSTEM (EXSIS)

14:41 19/02/88 PAGE 3

G NUMBER : GD870859

ANALYTICAL RESULTS FOR GD870859

G NUMBER : GD870859

	SAMPLE NO	AU PB	PD PB
X	02482	0	0
X	02483	6	5
X	02556	11	0
X	02620	12	0
X	02630	0	5
X	02631	7	0
X	02632	0	0
X	02633	0	0
X	02634	0	5
X	02638	9	0
X	02639	5	10
X	02640	10	0
X	02641	11	13
X	02642	15	18
X	02703	6	5
X	02704	10	19
X	02717	0	0
X	02718	0	25
X	02719	5	0
X	02721	0	21
X	02722	13	0
X	02723	0	20
X	02731	0	0
X	02732	0	5
X	02733	5	0
X	02735	0	34
X	02739	0	0
X	02740	16	39
X	02746	0	0
X	02747	5	0
X	02783	0	12
X	02784	6	5
X	02785	0	49
X	02786	0	0
X	02787	5	0
X	02885	0	0
X	02889	8	0
X	03018	0	0
X	03026	13	0
X	03028	7	0
X	03052	8	0
X	03058	0	0
X	03059	0	0

	SAMPLE NO	AU PB	PD PB
X	03062	0	0
X	03063	0	0
X	03065	0	15
X	03066	20	16
X	03091	5	0
X	03098	0	0
X	03100	0	0
X	03101	10	0
X	03103	0	11
X	03104	10	24
X	03106	5	0
X	03107	0	31
X	03108	14	0
X	03109	6	0
X	03110	0	0
X	03111	0	20
X	03113	0	0
X	03114	5	0
X	03115	5	21
X	03116	15	15
X	03118	11	20
X	03119	8	0
X	03121	0	0
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X	03132	0	0
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X	03135	5	0
X	03136	0	0
X	03137	0	0
X	03138	0	0
X	03139	6	23
X	03141	0	0
X	03142	11	0
X	03143	0	5
X	03144	5	0
X	03145	0	28
X	03146	8	11
X	03148	11	0
X	03149	0	0

*** END OF REPORT ***

APPENDIX IX

CRAE : Orientation Geochemistry

: Ground geophysical results

Ist '14 to 28 Dec 88.
448

CRA EXPLORATION PTY. LIMITED
(INC. IN N.S.W.)

Adelaide Office: 31 OSMOND TERRACE, NORWOOD 5067
Head Office: 55 COLLINS STREET, MELBOURNE 3001

P.O. BOX 254 Norwood
TELEPHONE: 42 8871
TELEGRAMS: "EXPLORE(
TELEX: AA88605

14th June, 1988

Memorandum to: W.H. JOHNSTON

Copy to: G.L. MACKEE

Memorandum from: J.F. MARINELLI

Re: BARTON J/V - GEOCHEMICAL ORIENTATION PROGRAMME AT ANOMALY BAR-1

Programme Outline

A soil sample geochemical orientation programme is proposed for the BAR-1 anomaly to establish the possibility of geochemical signatures existing for the BAR 1-10 anomalies below shallow cover.

The BAR-1 anomaly is located approximately 73km ESE of Barton Siding (Fig. 1). The BAR-1 anomaly was chosen because of its easy access from Barton and postulated shallow depth to the anomaly source. Three 6km north-south grid lines with 400m spacing exist over the anomaly (Fig. 2). Grid peg spacing is 100m.

The best possible areas for sampling will be selected in the dune corridors between the sand dunes. Work will be done initially to establish the most common sand fraction associated with the dunes. Appropriate sample fractions will then be selected from loam sample sites which will be spaced at 50 metre intervals along and across grid lines. These are expected to be -10+20 mesh and -20+40 mesh.

Sample lines have been chosen with respect to the magnetic and gravity profiles shown as plan no. SAa 4934. The proposed sample lines are shown as figure 3 representing approximately 500 sample sites.

Geochemistry

Because of the uncertain nature of the subsurface geology, a range of elements has been selected to cover multi commodity targets. The geological entities and their associated pathfinder elements are listed as follows:

Pegmatites - Li, Be
Granites - Sn, W, Ta
Ultramafics, mafics - Ti, V, Cr, Co, Ni, Cu
Gold deposits - Au, Sb, As
Base metals - Ba, Pb, Zn, Ag
Uranium deposits - U, Th, Bi

Carbonatites and alkaline intrusives - Nb, Sr, Zr
Collector of metal oxides - Mn

Analytical methods will be:

AAS - Pb, Ag, Bi

ICP - Ba, Be, Co, Cr, Cu, Li, Mn, Nb, Ni, Sr, Ta, Th, Ti, V, Zn, Zr

XRF - As, Sb, Sn, U, W

Aqua Regia/Carbon Rod - Au

Costs

Geological Supervision (14 days @ $600 per day)	$ 8,400
Sample preparation and assay costs including discount ($24 per sample for 500 samples)	12,000
Hire of Yamaha all-terrain bike (14 days)	700
Total	$21,100

J.F. MARINELLI

JFM/dp

Attach.

CRA EXPLORATION PTY. LIMITED
(INC. IN N.S.W.)
Adelaide Office: 31 OSMOND TERRACE, NORWOOD 5067
Head Office: 55 COLLINS STREET, MELBOURNE 3001

P.O. BOX 254 Norwood
TELEPHONE: 42 8871
TELEGRAMS: "EXPLORECO"
TELEX: AA 88605

13th July, 1988

Memorandum to: W.H. JOHNSTON

Copy to: G.L. MACKEE

Memorandum from: J.F. MARINELLI

Re: BARTON J/V - SOIL SAMPLING PROCEDURE AT ANOMALY BAR-1

Introduction

A soil sample geochemistry orientation programme was carried out on the BAR-1 anomaly from June 22-June 30 to test for possible geochemical signatures occurring with gravity/magnetic coincident peaks.

The BAR-1 anomaly is situated 73km ESE of Barton Siding within E.L. 1151 (Fig. 1). The anomaly was chosen because of its easy access and postulated shallow depth to geophysical anomaly source. Three 6km north-south grid lines with 400m spacing had been established over the anomaly. Grid peg spacing was 100m. Magnetic and gravity profiles are shown as plan SAa 4934.

BAR-1 is dominated by ESE trending sand dunes which range from 3m to 8m high. Dune spacing can be erratic but averages 250m. The dunes are up to 100m wide which leaves about 100-150m of relatively flat dune corridor which was the focus of the soil sampling programme.

Sampling Procedure

Because of the dominance of aerolian material orientation tests were made on both the sand dunes and corridors to establish grain size distribution throughout the BAR-1 grid. It was proposed that the coarsest grain size material would most closely reflect basement lithologies. Essentially, the larger the particle the lesser chance it has moved a great distance from its source. A further objective was the collection of coarser ironstone nodules which may have adsorbed metal ions from nearby metal sources.

The orientation tests involved collection of a known weight of material (1.5 kg) and passing it through a series of sieves. The material collected was a shallow scrape to 1cm depth on both dunes and dune corridors. The individual fractions were weighed and compared to determine the appropriate size fraction/s for sampling. Sieve sizes used for the exercise were -10+20 mesh (2.00-0.85mm), -20+40 mesh (0.85-0.425mm), -40+60 mesh (0.425-0.25mm) and -60 mesh (<0.25mm).

Test sites were chosen from several areas within the BAR-1 grid. Fraction distribution was as follows:

Sand Dunes

-10+20 mesh	trace
-20+40 mesh	10%
-40+60 mesh	61%
-60 mesh	29%

Dune Corridors

-10+20 mesh	3%
-20+40 mesh	35%
-40+60 mesh	36%
-60 mesh	26%

Fraction distribution analysis showed that the optimum sample fraction was -10+20 mesh with the -20+40 mesh being of secondary interest.

The sample grid was designed to utilise the existing north-south lines and include six east-west lines appropriately spaced to cover the peaks and flanks of the geophysical anomalies (Fig. 2). Sample spacing was 50m and sample sites confined to dune corridors. A -10+20 mesh and -20+40 mesh sample of 100-150g was collected at each site.

A total of 436 sample sites were tested. Up to 50 sites displayed at least a trace of non-magnetic nodular ironstone dispersed in the quartz and feldspar rich samples. Sample locations are shown as plan SAa 4988.

Geochemistry

All -10+20 mesh samples have been submitted to Analabs for multi-element analysis. The elements cover a wide variety of geological entities and are listed as follows:

Pegmatites - Li, Be
Granites - Sn, W, Ta
Ultramafics, mafics - Ti, V, Cr, Co, Ni, Cu
Gold deposits - Au, Sb, As
Base metals - Ba, Pb, Zn, Ag
Uranium deposits - U, Th, Bi
Carbonatites and alkaline intrusives - Nb, Sr, Zr
Collector of metal oxides - Mn

Results are expected by mid-August.

J.F. MARINELLI

JFM/dp

Attach.

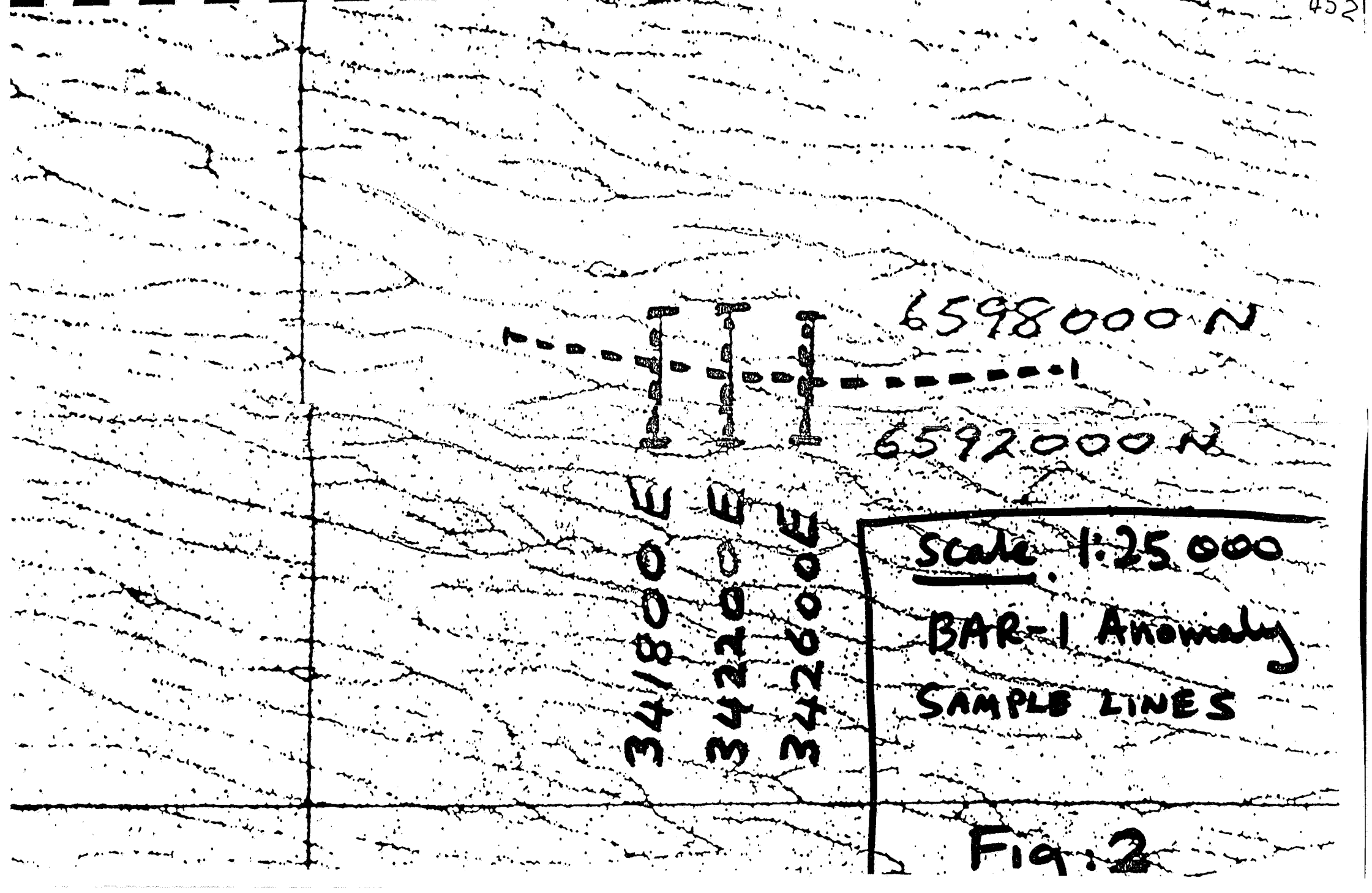
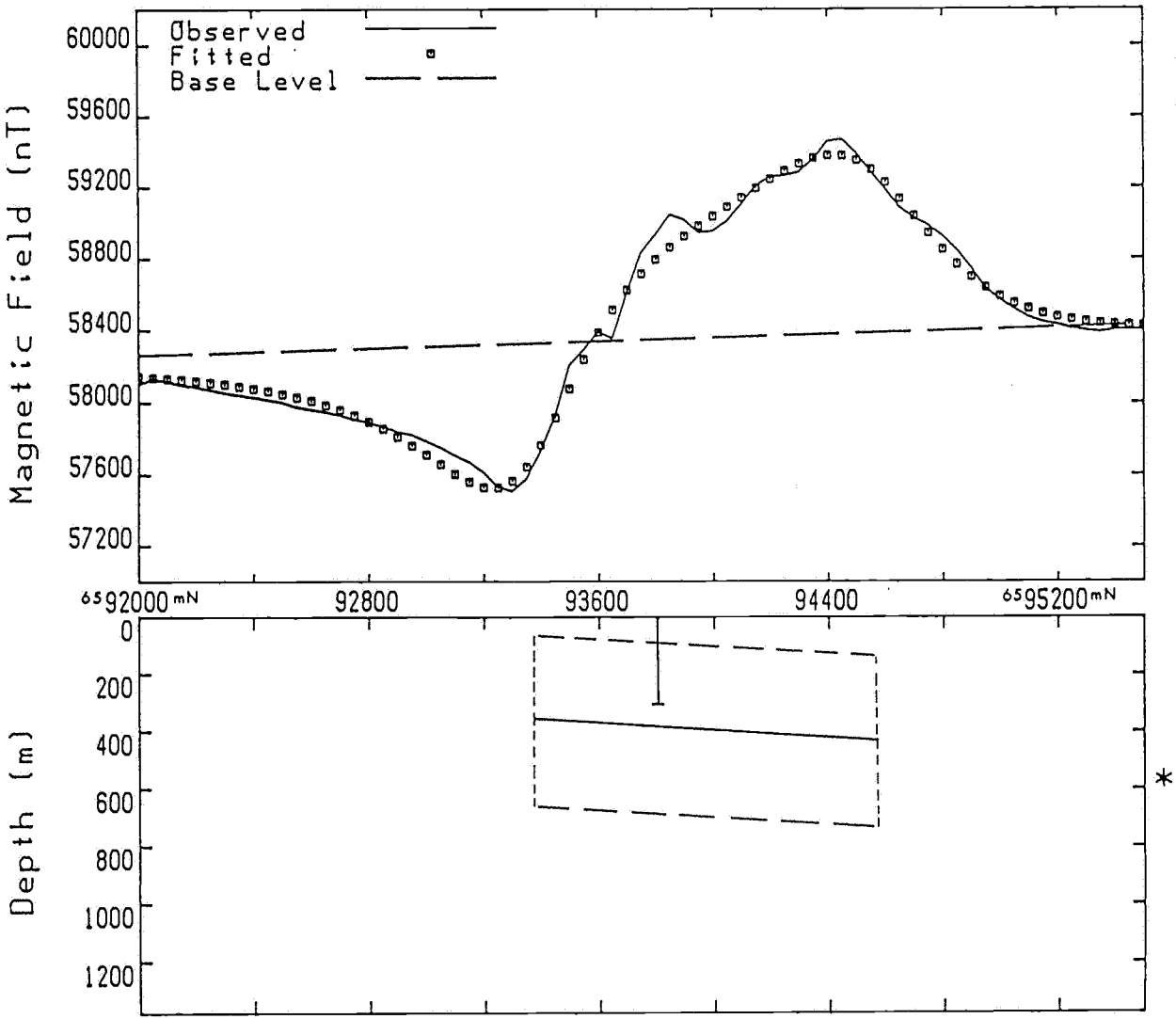

6598000 N
6592000 N
341800 E
342000 E
342200 E
Scale 1:25 000
BAR-1 Anomaly
SAMPLE LINES

Fig. 2

Fig. 1

BAR-1 LINE 342600mE

RIBBON MODEL - Sth Anomaly



GEOMAGNETIC FIELD:

Field Strength	58300 nT
Inclination	-63 deg
Declination	4.5 deg

PLAN DIRECTIONS:

Strike Perp	0 deg
Line Direction	0 deg
Sensor Height	0 m

MODEL PARAMETERS:

Model Type		RIBBON	
Depth	F	356	m
Width	F	1198	m
Dip	X	4	deg
*Suscep x Thick	F	3.64	emu-m
Remnance Ratio	X	0	
Remnance Incl	X	0	deg
Remnance Decl	X	0	deg
Position	F	93376.12	m
Base Level	X	58328.06	nT
Base Slope	X	.0472259	nT/m

(F-fitted, X-fixed, L-limit)

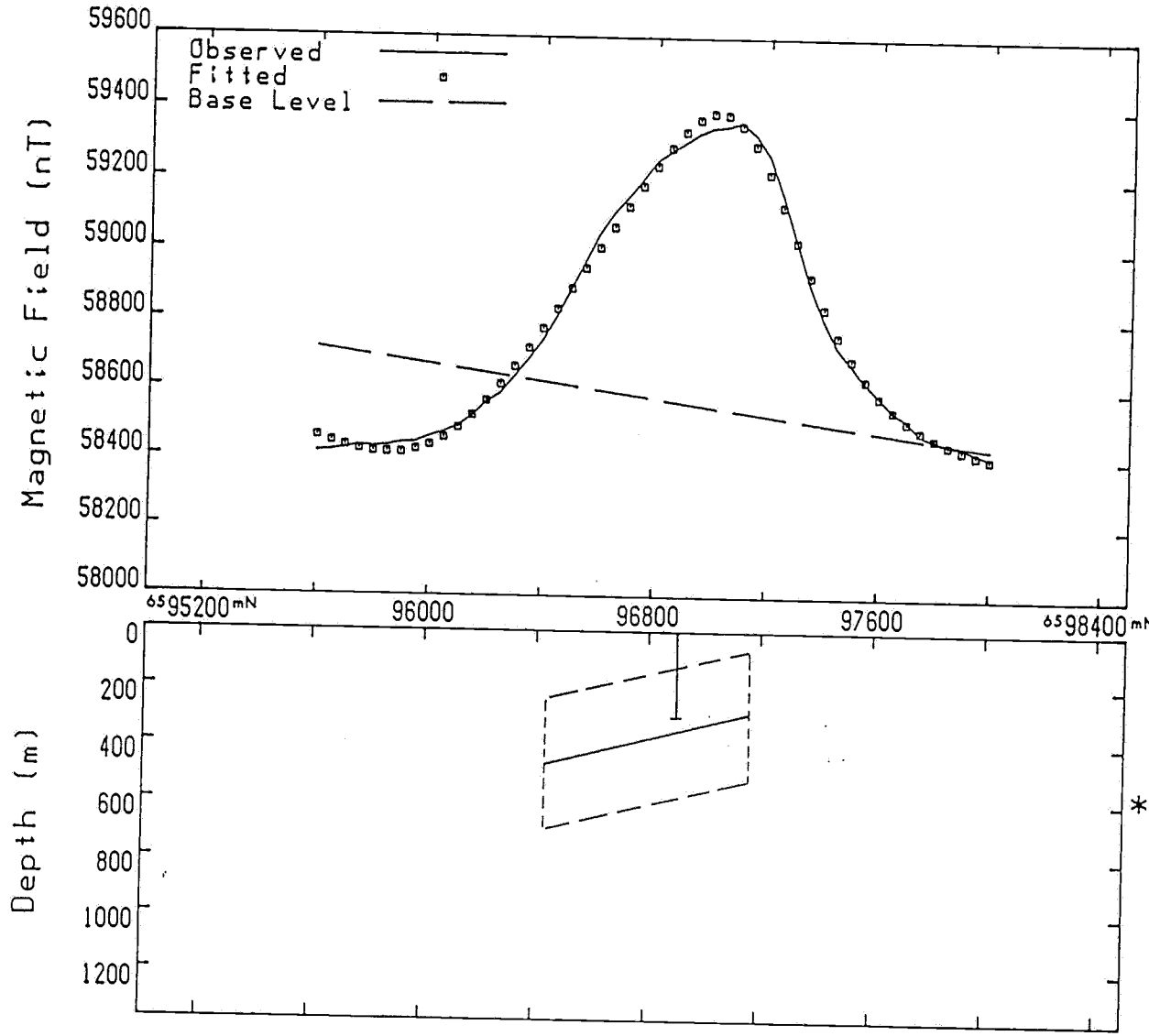
* Mag. Susc. ~0·075 SI
Thickness ~600 metres
Depth to Top < 100 metres

Scale 1:25 000

BAR-1 LINE 342200mE

RIBBON MODEL - Nth Anomaly (OPTIONAL HOLE)

Fig. 2



GEOMAGNETIC FIELD:

Field Strength	58300 nT
Inclination	-63 deg
Declination	4.5 deg

PLAN DIRECTIONS:

Strike Perp	315 deg
Line Direction	0 deg
Sensor Height	0 m

MODEL PARAMETERS:

Model Type		RIBBON	
Depth	F	293	m
Width	F	743	m
Dip	F	166	deg
* Suscep x Thick	F	2.65	emu-m
Remnance Ratio	X	0	
Remnance Incl	X	0	deg
Remnance Decl	X	0	deg
Position	F	97157.93	m
Base Level	F	58531.49	nT
Base Slope	F	-.1175231	nT/m

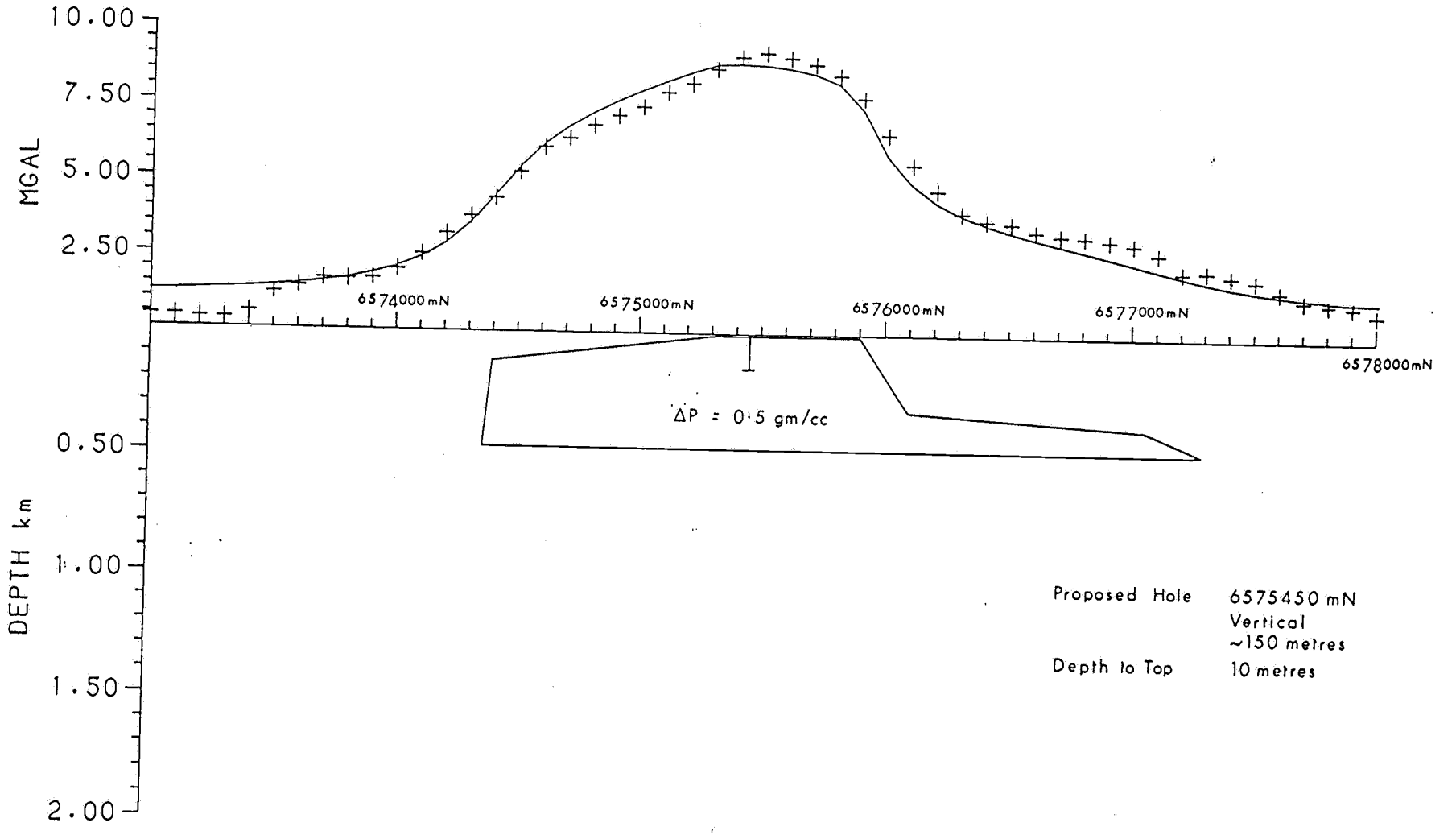
(F-fitted, X-fixed, L-limit)

* Mag. Susc. ~0·075 SI
Thickness ~450 metres
Depth to Top ~120 metres

Scale 1:25000

Geosoft MAGMOD-3 Modelling Result

Fig. 3



Proposed Hole 6575450 mN
Vertical
~150 metres

Depth to Top 10 metres

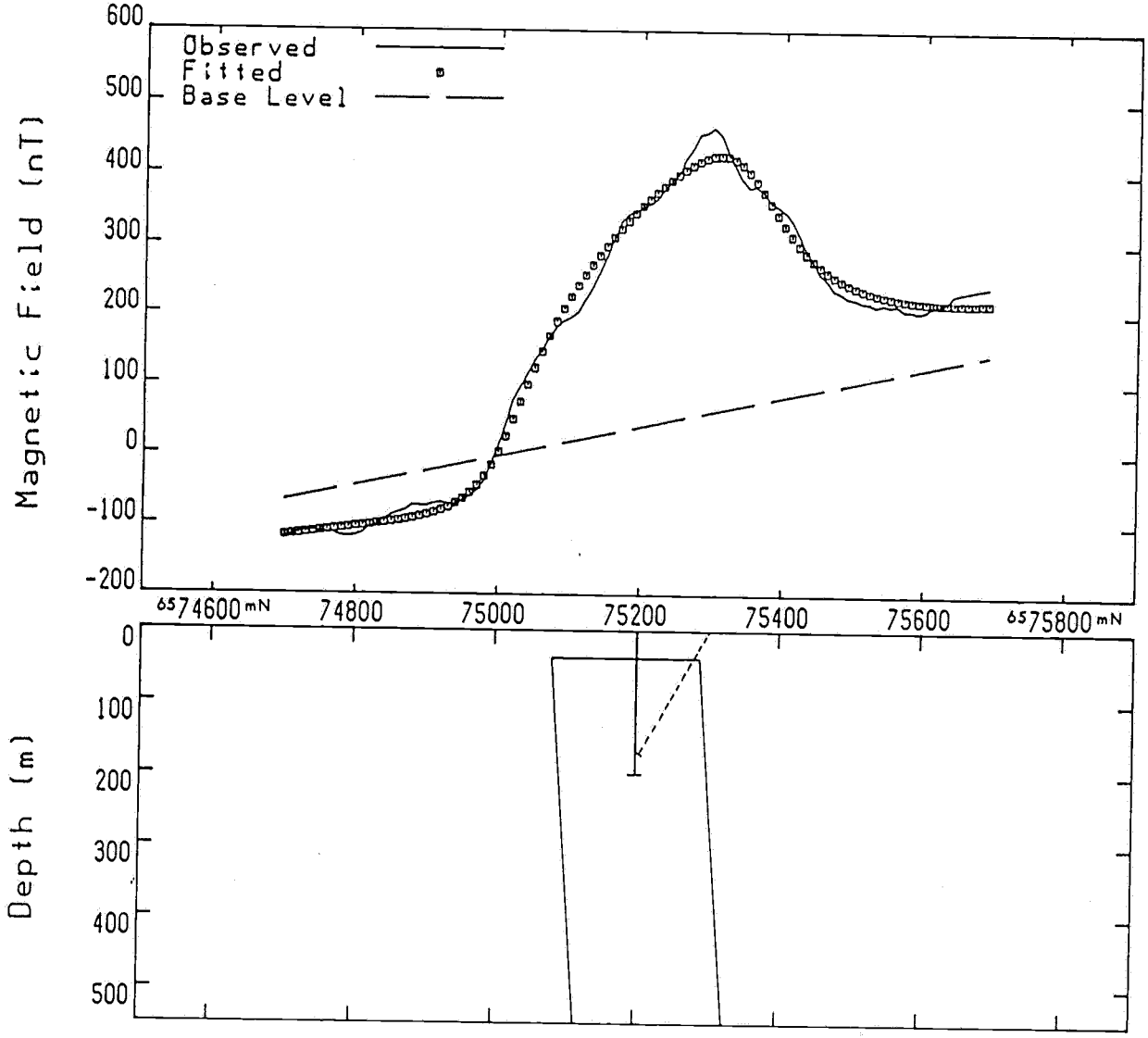
BAR –.3 PROSPECT
Line 307000 m EAST
BOUGUER GRAVITY MODEL

Scale 1: 25000

BAR-4 PROSPECT

LINE 311000mE - TABULAR MODEL

Fig. 4



GEOMAGNETIC FIELD:

Field Strength	58200 nT
Inclination	-63 deg
Declination	4.5 deg

PLAN DIRECTIONS:

Strike Perp	-53 deg
Line Direction	0 deg
Sensor Height	0 m

PROPOSED HOLE : 6575200mN, Vertical.
ALTERNATE HOLE : 6575300mN, -60°S.

Depth ~200 metres
Depth to Top ~40 metres

MODEL PARAMETERS:

Model Type		TABULAR
Depth	F	38.9 m
Half Width	F	105 m
Dip	F	86 deg
Susceptibility	F	0.00152 emu
Remnance Ratio	X	0
Remnance Incl	X	0 deg
Remnance Decl	X	0 deg
Position	F	75184.27 m
Base Level	F	36.2 nT
Base Slope	F	.2131345 nT/m

(F-fitted, X-fixed, L-limit)

Scale 1 : 10 000

Geosoft MAGMOD-3 Modelling Result

APPENDIX X

CRAE : Soil Geochemistry

CRAE : 2nd 114 to 28 March '89

APPENDIX 4

Statistical Interpretation of +20# Soil Geochemical Data

BAR-1 Prospect, Mt. Christie E.L. 1524, S.A.

CRA Exploration Pty. Limited
Incorporated in New South Wales
31 Osmond Terrace, Norwood 5067, South Australia

15th February, 1989

Memorandum to: J.F. MARINELLI

Copy: W.H. JOHNSTON
G.L. MACKEE
S.P. SUGDEN

From: D.C. PALMER

Re: STATISTICAL INTERPRETATION OF +20# SOIL GEOCHEMICAL DATA, BAR-1 PROSPECT, MT. CHRISTIE EL 1524, S.A.

1. INTRODUCTION

A total of 459 multi-element geochemical results from +20# soil sampling of the BAR-1 Prospect, Mt. Christie EL 1524, South Australia, was interpreted using computer-based statistical techniques.

2. PROCEDURES

The geochemical data from BAR-1 Prospect was received as a GASP compatible DPO file and was reformatted into a fixed format BMDP-compatible file for statistical manipulation. Editing of the file included removing special values representing missing data, and assigning integer values of half detection limit to data values below the lower detection limit.

Statistical work was done on the Macintosh II computer utilizing the Statview II statistical analysis programme.

Univariate statistics and correlation coefficients were calculated from the data to determine element relationships.

The BAR-1 Prospect data was also log-transformed and additive standardized total scores (Z-scores) for each sample were calculated. Furthermore two intuitive indices (gold index and base metal index) were also calculated and map plots of the data were generated using J-Map Geochemistry Version II.

3. RESULTS

Box plots for the BAR-1 Prospect geochemical data are presented in figures 1 and 2.

In general the element values recorded were low with maximum values falling in the lower ranges for soil average elemental abundances. Several elements exhibited data distributions which were skewed towards the lower detection limit e.g. Be, Co, Cu, Zn, As, Sn, Sb, U, Ag and Au. Furthermore no Nb, Ta, Th, Bi, Pb and W values were detected in any samples.

Correlation analysis indicated that few elements showed a good positive correlation. The association of Ti, Zr, Sr with Mn (all values $r>0.7$) suggests scavenging and the effect of Mn-rich laterite material. The Ti-V correlation ($r = 0.71$) also seems to reflect lateritic compositions and not mineralisation.

J-Map plots for all elements from the BAR-1 Prospect data set exhibited indistinct spatial patterns. Anomalous values of most elements were shown to be randomly distributed over the BAR-1 grid e.g. Au (figure 3). Elevated element values tended to be recorded in the southern portion of the grid (6595000mN-6592000mN) with the northern portion relatively 'barren'.

A clustering of anomalous As values was recognised in the SE portion of the grid (figure 4). This apparent anomalous area in the vicinity of drill hole PD88MC1, is a result of statistical bias in the As data set and is probably not related to mineralisation.

The spatial distribution of Au and base metal index values (figures 5 and 6) also reflects the trend of higher element values in the southern portion of the grid. Several anomalous coincident Au and base metal index values occur in the SE portion of the grid on line 659300mN, line 342200mE and line 342600mE.

The spatial distribution of these coincident index values appears to bear little relationship to the aeromagnetic data over BAR-1 Prospect (figure 7).

4. CONCLUSIONS

Univariate statistics computed on the BAR-1 Prospect geochemical data indicated that marginally higher metal values were recorded in the southern portion of the grid.

Absolute magnitudes of the various elements values from the data sets were relatively low, falling in the lower ranges for soil average elemental abundances.

The quality of the geochemical data set could be markedly improved (i.e. skewness reduction, element detection) via the use of analytical techniques with lower detection limits e.g. ICP-MS.

Anomalous coincident Au and base metal index values occur in the SE portion of the grid on line 659300mN, line 342200mE and line 342600mE.

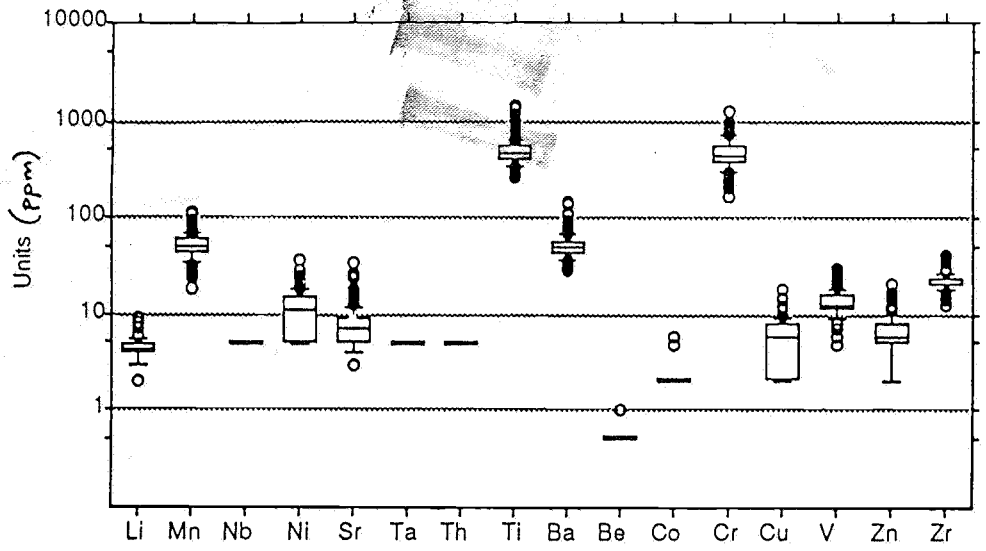
The spatial distribution of coincident anomalous Au and base metal index values appears to bear little relationship to geophysical data.

Follow up or in-fill soil sampling is not recommended until detailed ground magnetics data are collected over the BAR-1 Prospect. Only with a more adequate ground magnetics coverage, can the spatial distribution of the coincident anomalous Au and base metal index values be fully assessed.

D.C. PALMER

DCP/pq

Attach.



LEGEND FOR BOX PLOT

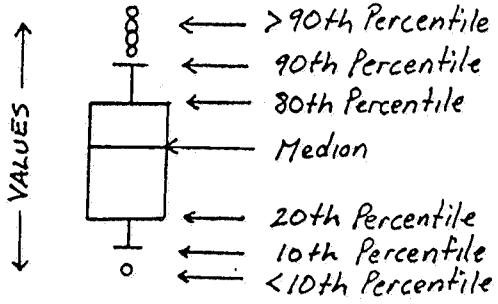
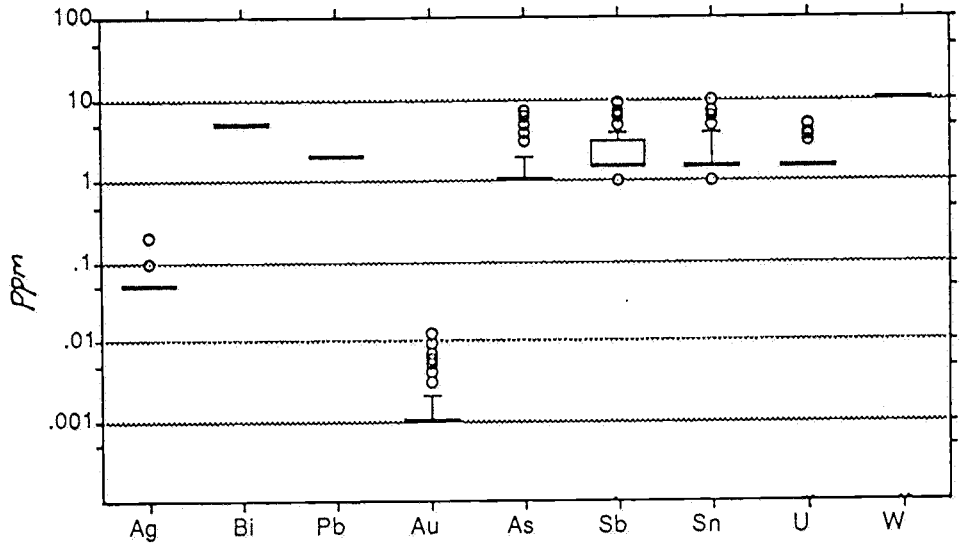


FIGURE 1 BOX PLOTS FOR ELEMENTS Li → Zr, SHOWING PERCENTILE LEVELS.



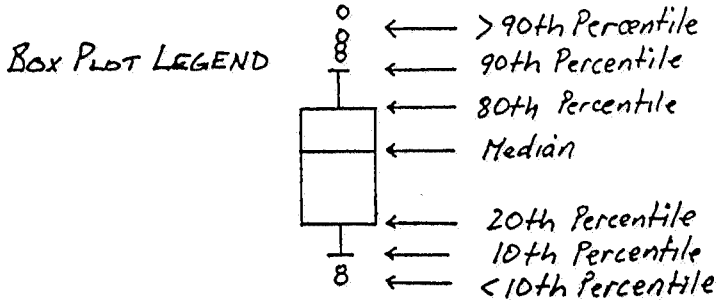
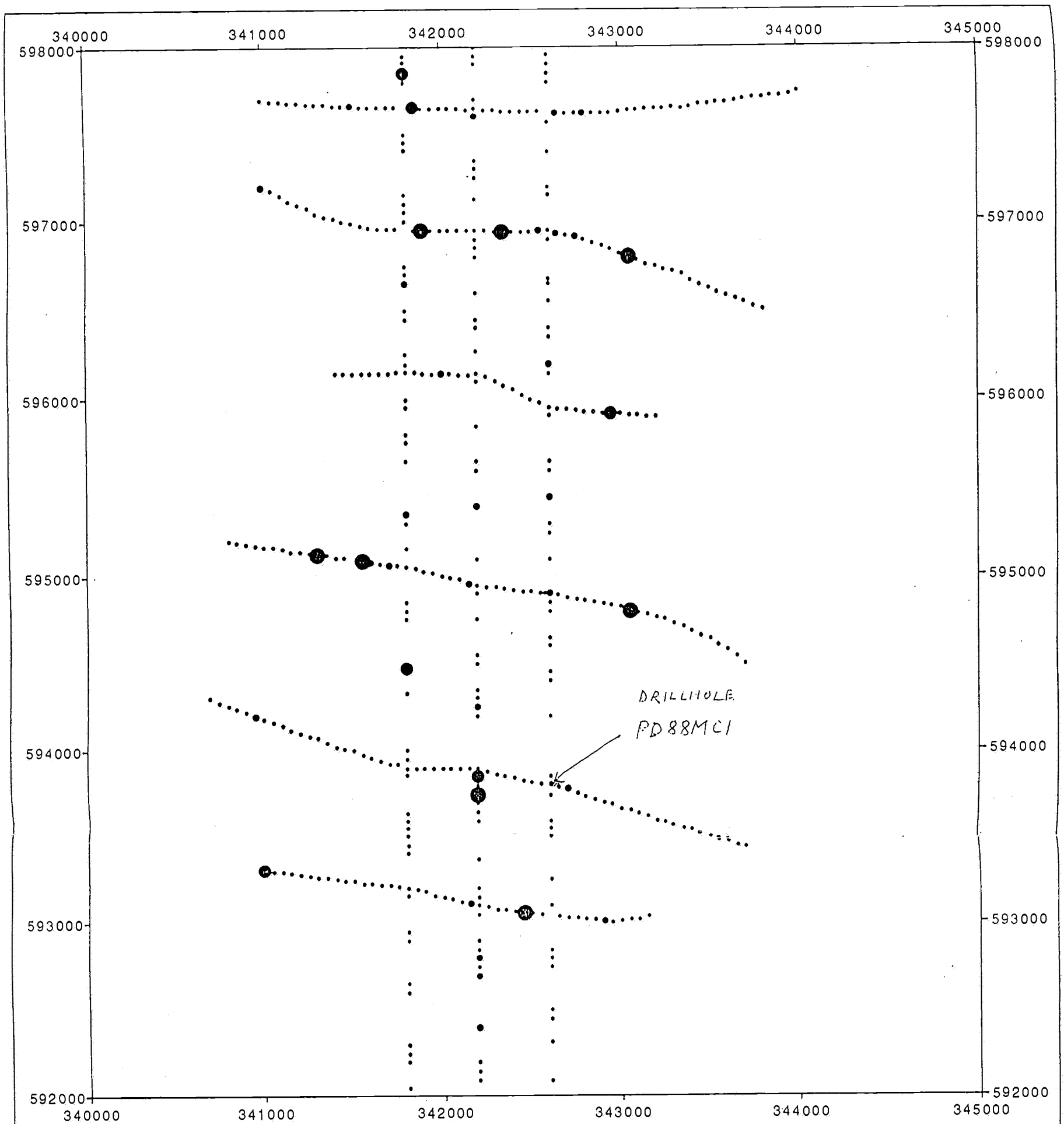


FIGURE 2 Box Plots For Elements Ag → W, showing Various Percentile Levels.



CRA Exploration Pty.		
Mt Christie EL 1524 , Bar-1 Prospect Au ppm +20# Soil Geochemistry		
Geol:D.C.P	Scale:1:25000	Report:
Drawn: D.C.P	Date:14/2/89	Plan:SAa

FIGURE 3

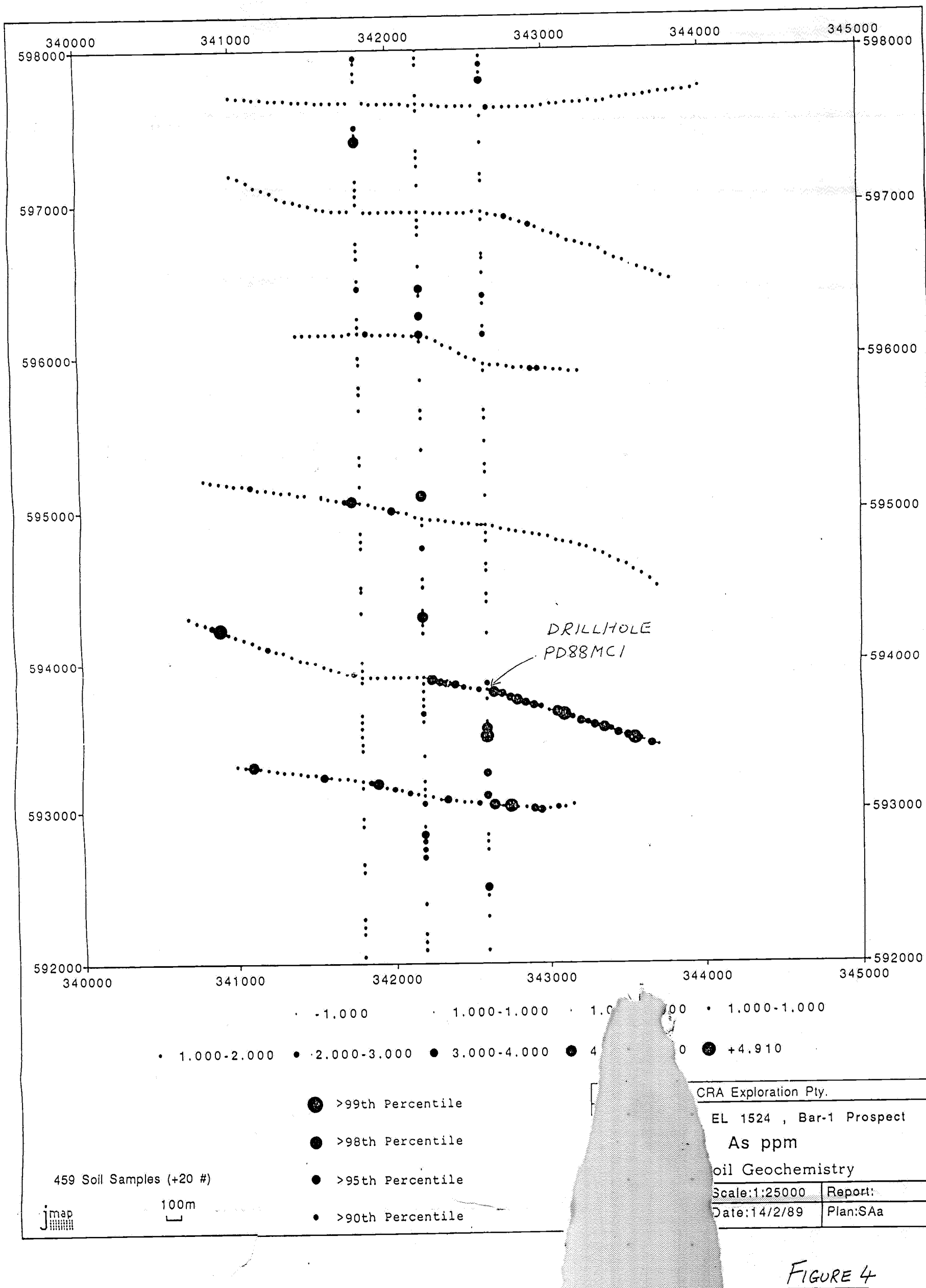

340000
341000
342000
343000
344000
345000
598000
597000
596000
595000
594000
593000
592000
DRILLHOLE
PD88MC1
-1.000
1.000-1.000
1.000-1.000
1.000-2.000
2.000-3.000
3.000-4.000
+4.910
>99th Percentile
>98th Percentile
>95th Percentile
>90th Percentile
459 Soil Samples (+20 #)
100m
jmap
CRA Exploration Pty.
EL 1524 , Bar-1 Prospect
As ppm
oil Geochemistry
Scale:1:25000
Report:
Date:14/2/89
Plan:SAa

FIGURE 4

468

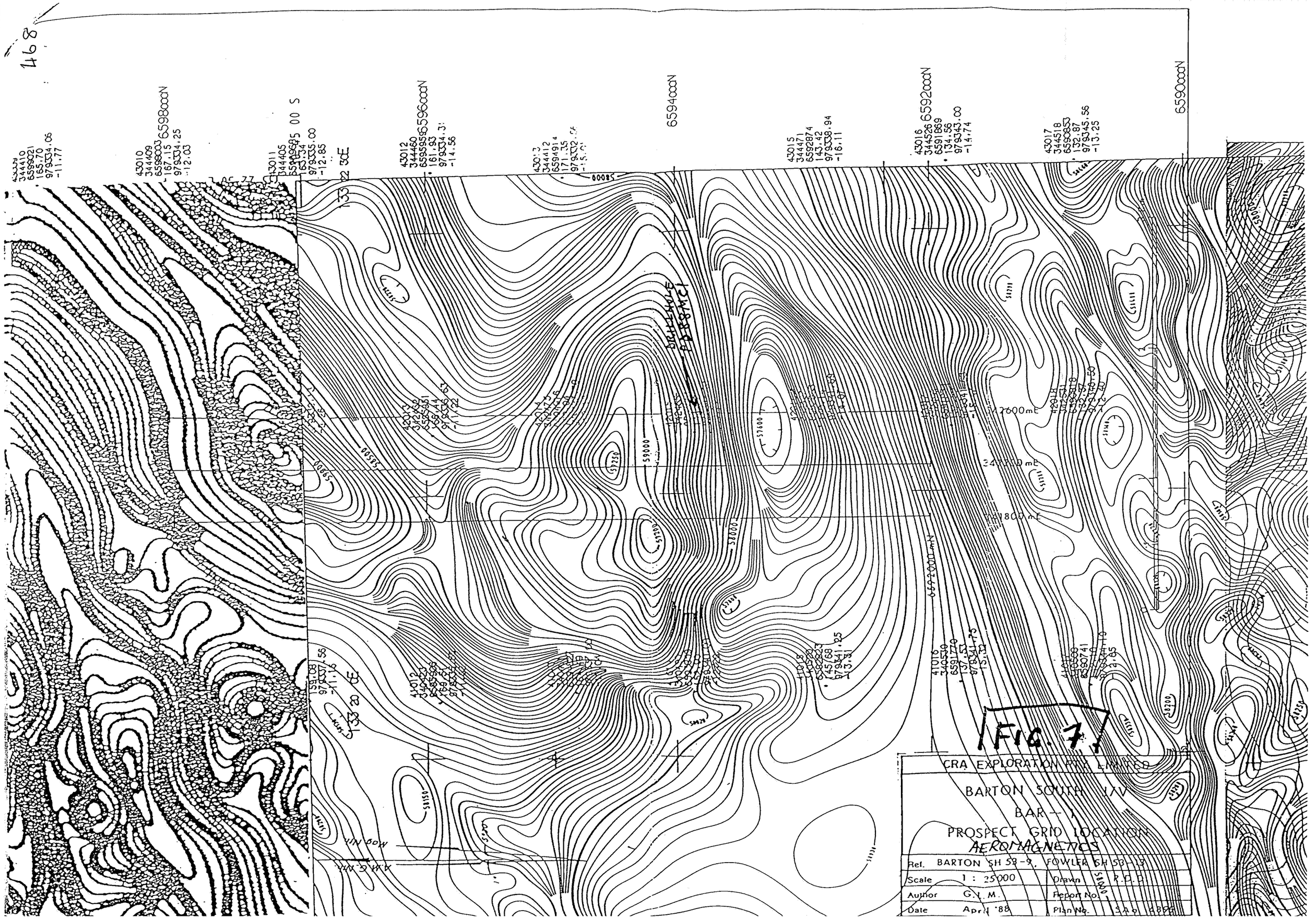
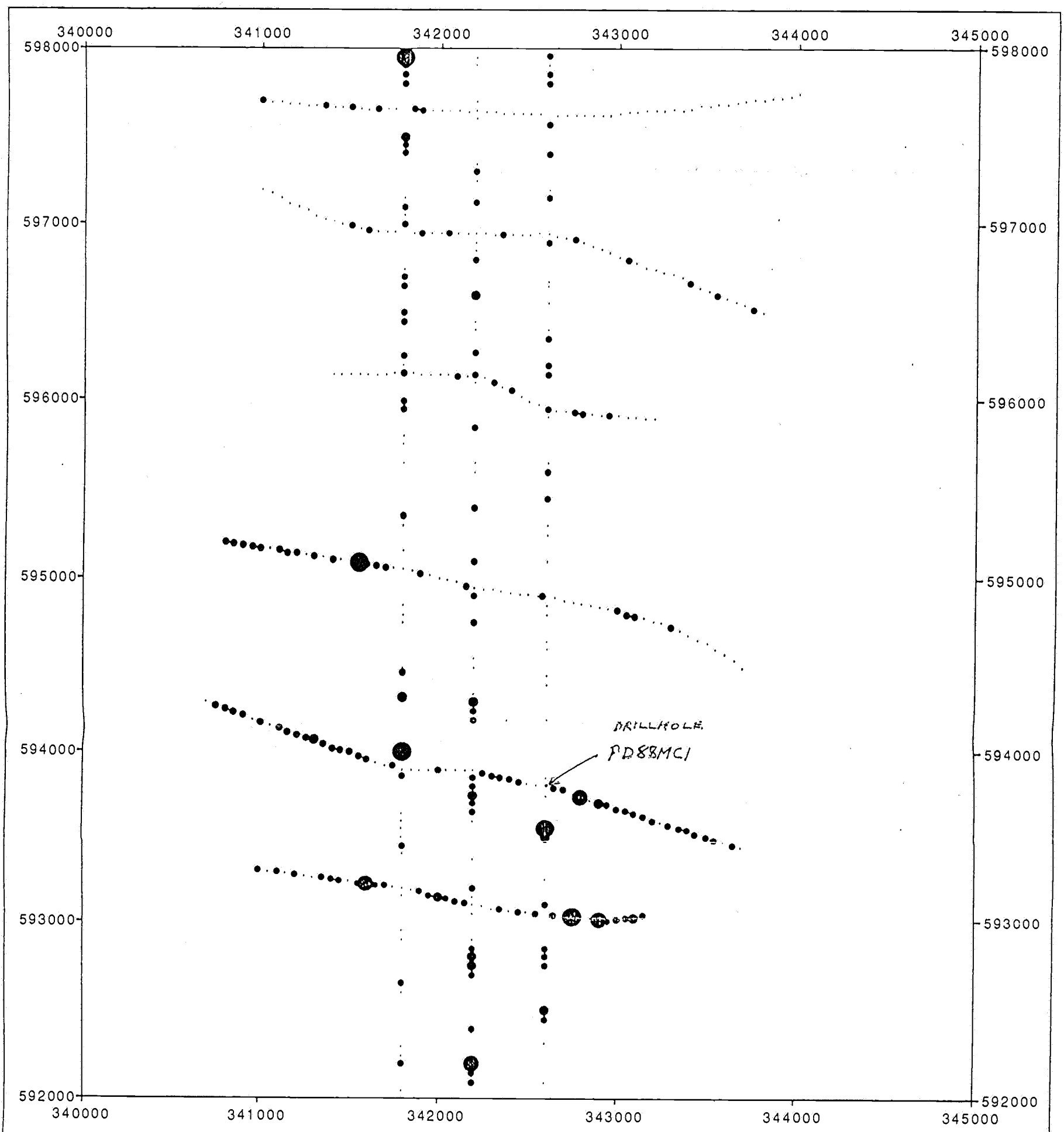
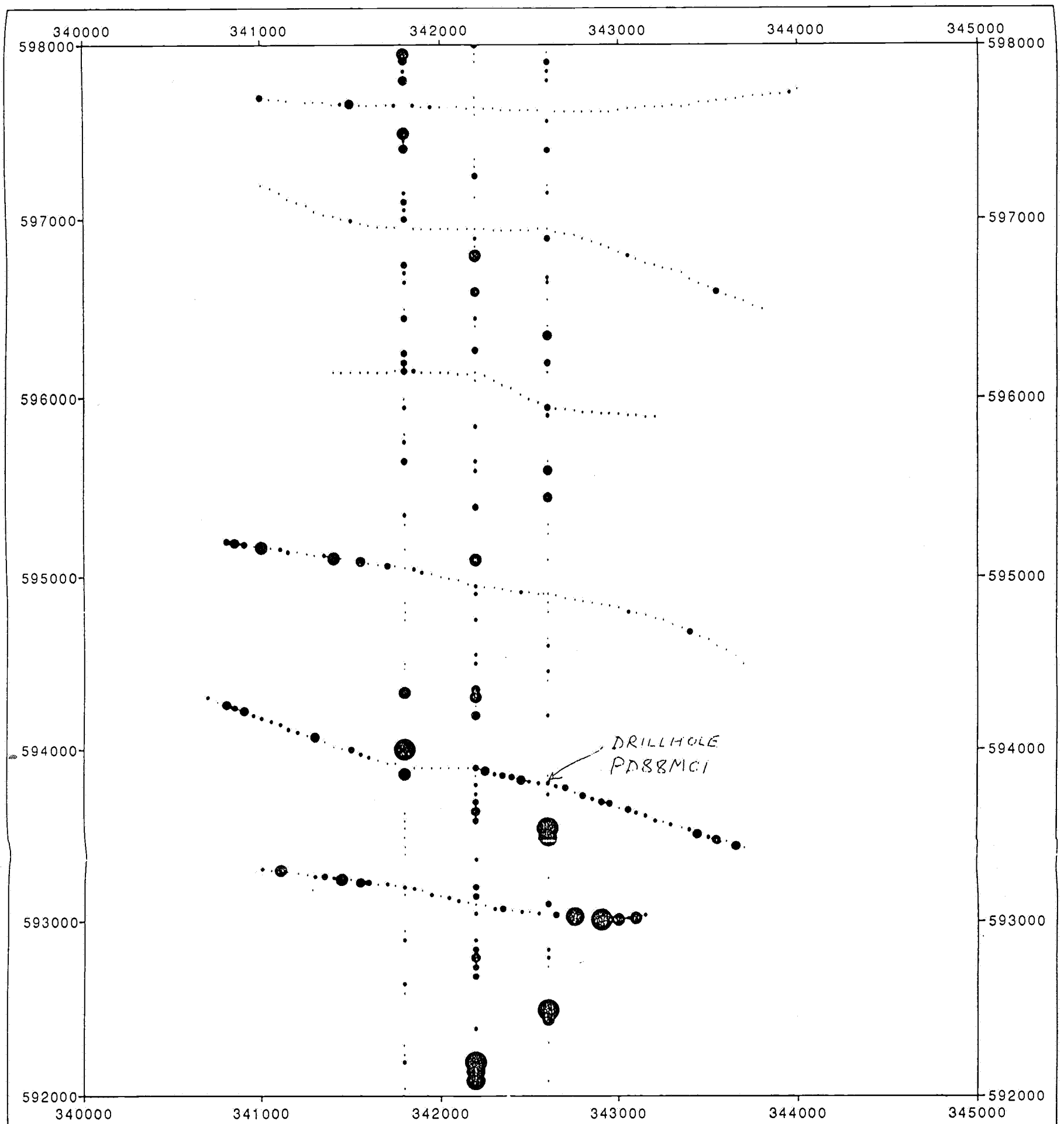

6594000mN
6592000mN
6590000mN
49800mE
50000mE
50200mE
BRUNSWICK PERMIT
BARTON SOUTH 1/V
BAR - 1
PROSPECT GRID LOCATION
AEROMAGNETICS
Ref. BARTON SH 58-9, FOWLER SH 58-13
Scale 1 : 25000
Drawn S.S. R.D.D.
Author G.L.M.
Report No.
Date April '88
Plan No. SAS 6886

Fig. 7



CRA Exploration Pty.		
Mt Christie EL.1524 , BAR-1 Prospect		
Au Index		
(Au - As - Co - Mn - Sb - Bi - Sn - Mo)		
Geol:D.C.P	Scale:1:25,000	Report:
Drawn: D.C.P	Date:2/9/89	Plan:SAa

FIGURE 6



CRA Exploration Pty.

Mt Christie EL 1524, Bar-1 Prospect

Base Metal Index Map

(Cu-Zn-Co-Ba-As-Ni-Mn)

Geol:D.C.P	Scale:1:25,000	Report:
Drawn: D.C.P	Date:2/14/89	Plan:SAa

FIGURE 5

APPENDIX XI

CRAE : Heavy Mineral Analysis

8. CURRENT EXPLORATION

Investigation into the potential for economic heavy minerals within E.L.'s 1522, 1523 and 1524 was completed during the seventh quarter.

Benbow (1989) suggested that the presence of Eocene coastal aeolian landforms, the Barton and Ooldea Ranges, along the north eastern margin of the Eucla Basin raised the prospectivity for heavy mineral sands in the region. The south eastern portion of both the Barton and Ooldea Ranges occur within the E.L.'s (plan SAa 5280).

Recent work by BHP Minerals on heavy minerals in former E.L.'s 1353 and 1354 adjacent to the Barton E.L.'s was reported by Taylor (1987), and Taylor and Tedder (1987). Drilling by BHP showed only low values of heavy minerals. Traverse locations and highest values of HM are shown in plan SAa 5280.

As shown in plan SAa 5280, the best intersection by BHP in the Ooldea Range was 0.65% HM in hole OL64 from 0-20m. All other drill intersections in their program showed much lower values.

In Midgerie E.L. 1522 Ooldea Range sands are flanked by CRAE drill holes RD88MI1, RD88MI2 and DD88MI3. Panning of Tertiary sands revealed only very slight traces of zircon. This observation together with the paucity of HM in BHP traverses downgrades potential for economic intersections in undrilled portions of south eastern Ooldea Range sands.

The Barton Range sands traverse Barton South E.L. 1523 and Mt. Christie E.L. 1524. CRAE drill hole PD88MC3 (BAR-5) intersected partially cemented and ferruginised sands on the edge of the inferred Barton Range from 6-30m below collar. No heavy minerals were recorded.

During the quarter drill holes PD88MC1 (BAR-1) and PD88MC2 and MC3 (BAR-5) were logged with the S.I.E. gamma probe to test for the presence of HM concentrate in the sand cover. Hole MC2 was blocked at 6m b.c. so logging was not completed. No anomalous response was detected in drill holes MC1 and MC3. Gamma log sections are shown as plans SAa 5039 and SAa 5035.

A review of Stockdale drill holes found that several were collared on or adjacent to the Barton Range in Barton South and Mt. Christie E.L. 's (see plan SAa 5280). Personal communications with Tony French of Stockdale, Whyalla revealed no positive indicator minerals for HM's being observed.

"CRA CONFIDENTIAL INFORMATION – UNAUTHORISED USE PROHIBITED."

132°00' 132°30' 133°00' 133°30'

30°30'

31°00'

31°30'

BARTON RANGE

OOLDEA RANGE

EL 1524

EL 1577 (CEC)

EL 1523

EL 1522

WYNBRING PALAEOCHANNEL

FOWLER PALAEOCHANNEL

W 19 Tp 4-22m

E 16 Tp 11-48m

W15 Tp 16-24m

E 11 Tp 21-39m

W04 Tp 9-40m

W05 Tp>32m

MC 2 Tp 6-30m

MC 3

W15 Tp 8-18m

MC 1 Tp -

W13 Tp 10-30m

W12 Tp 6-29m

E 11 Tp 10-46m

E07 Tp 24-48m

E08 Tp 20-38m

MC 4 Tp -

MC 5 Tp -

MI 3 Tp 13-69m

MI 1 & 2 Tp 8-63m

BHP TRAVERSE 2
Best hole OL64
0·65 %HM from 0-20m

BHP TRAVERSE 7
Best hole OL 108
0·52 %HM from 0-16m

BHP TRAVERSE 3
Best hole OL 89
0·15 %HM from 0-20m

BHP TRAVERSE 4
All holes Trace

BHP TRAVERSE 5
All holes Trace

0 10 20 30 40 50 Km.

Palaeochannels

Tertiary sand ridges with potential for HM's

● MC 4 CRAE Drillhole

O W 12 Stockdale Drillhole

Tp 20-30m Tertiary sediments with depth below collar

BHP HM Drill Traverse

CRA EXPLORATION PTY LIMITED

MIDGERIE EL 1522, BARTON SOUTH EL1523
MT. CHRISTIE EL 1524
CRAE - STOCKDALE J/V

DRILLHOLE LOCATION AND TERTIARY FEATURES MAP

REF.	BARTON SH 53-9, FOWLER SH 53-13
SCALE	1 : 500000
AUTHOR	J F M
	REPORT 16584

7th 'Hto June 90.

ELs 825, 832, 833

SIXTH QUARTER ENDING 12 OCTOBER, 1982

Map 2 Total Field Magnetic Contour Map

Map 3 Total Field Magnetic Contour Map

ANOMALIES 5436-I/W nos.01-24C

ANOMALIES 5436-I/E nos. 01-19

W01
W02
W03
W04
W05
W06
W06A
W07
W08
W09A
W09B
W09
W10
W11
W12
W13
W14
W15
W16

E01
E02
E03
E04
E05
E06
E07
E08
E09
E10
E11
E12
E13
E14
E19

E.L.831
E.L.832
E.L.833
E.L.898
(CEC)

NOTE : Anomalies on eastern half have prefix E, then two units to indicate anomaly number and sometimes then an A, B, C or D. A similar notation scheme applies for the western half. eg. E14 is 5436 I / E 14

Co-ordinates refer to Australian Map Grid.

SURVEYED AND COMPILED BY:
AERODATA SERVICES (1980) PTY. LTD.

SCALE 1:50,000

8562-1

MAP 2

STOCKDALE PROSPECTING LIMITED

H53-9 SHEET No. 5436-I
AIRBORNE GEOPHYSICAL SURVEY
TOTAL FIELD MAGNETIC CONTOUR MAP
BARTON, SOUTH AUSTRALIA

Compiled	F.W.A
Drawn	A.D.S
Date	NOV '82
Scale	1:50,000
Revised	
	SEL1701A

6th lly to 12 Oct '82

ANOMALIES 5436-4/W nos 01-14A

ANOMALIES 5436-4/E nos 01-15

E.L.831

E.L.831

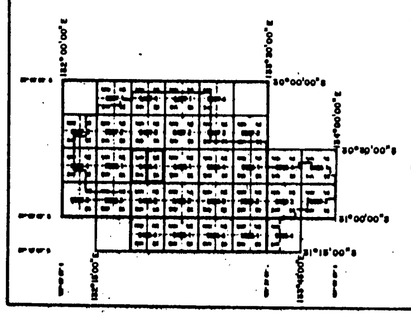
E.L.832

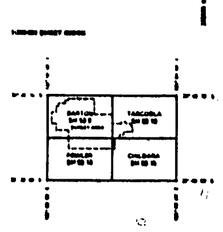
E.L.832

E.L.832

W02 W03 W02A W01 W04 W05 W07 W06 W08 W09 W10 W11 W12

E01 E02 E04 E05 E06 E07 E16 E09 E08 E10 E11 E12





NOTE: Anomalies on eastern half have prefix E, then two units to indicate anomaly number and sometimes then an A or B. A similar notation scheme applies for the western half. eg. W09 is 5436-4/W09.

Please note that there is no E03.

SCALE 1:50,000

Co-ordinates refer to Australian Map Grid.

SURVEYED AND COMPILED BY:
AERODATA SERVICES (1980) PTY. LTD.

MAP 3

8562-2

STOCKDALE PROSPECTING LIMITED	
H53-9 SHEET No. 5436-4 AIRBORNE GEOPHYSICAL SURVEY TOTAL FIELD MAGNETIC CONTOUR MAP BARTON, SOUTH AUSTRALIA	Compiled F.W.A Drawn A.D.S Date NOV '82 Scale 1:50,000 Revised SEL 1700 A

GA 114 to 12 Oct '82

8562-3

133° 05'
3005

132° 10'
30° 15'

5337-1/W | 5337-1/E | 5437-4/W | 5437-4/E | 5437-1/W | 5437-1/E | 5537-4/W

EL 1152

EL 890
(CEC)

EL 1149

5337-3/W | 5337-3/E | 5337-2/W | 5337-2/E | 5437-3/W | 5437-3/E | 5437-2/W | 5437-2/E | 5537-3/W | 5537-3/E | 5537-2/W | 5537-2/E

5436-3/W

5436-3/E

5436-2/W

5436-2/E

Barton Siding

EL 1148

30° 30'

EL 1153

5336-4/W | 5336-4/E | 5336-1/W | 5336-1/E

5336-3/E | 5336-2/W | 5336-2/E

EL 1151

5536-4/W | 5536-4/E | 5536-1/W | 5536-1/E | 5636-4/W | 5636-4/E | 5636-1/W | 5636-1/E

EL 1147

5536-3/W | 5536-3/E | 5536-2/W | 5536-2/E | 5636-3/W | 5636-3/E | 5636-2/W | 5636-2/E

no 5436-4/E03

543

31° 15'
132° 30'

133°

5535-1/W | 5535-1/E | 5635-4/W

33° 30'

5 0 5 10 15 Kms

Survey Flight Nos 006,114 etc
1:25,000 Sheet No 5437-1/E

(c) survey completed

EL Boundary

7 Flown helicopter geophysics anomalies

2 Treat as one anomaly

MAP 4

STOCKDALE PROSPECTING LIMITED

H 53 - 9,10,13,14

BARTON - TARCOOLA
HELICOPTER SURVEYS
PLANNED AND COMPLETED
OVERLAYS SEL 694

Compiled	MHM
Drawn	R.RW
Date	May 83
Scale	1:50000
Revised	9/83
	SEL 696 C

8562-3

8562-4

132°30'
30°05'
133°00'
133°30'
134°00'
31°00'
31°15'

THIN SAND (1 - 10m ?)

SAND RIDGE

DUNES OVER BASEMENT

THIN SAND (1 - 10m)

THIN SAND

AREA OF THICKER SAND COVER

THIN SAND

THIN SAND

DUNES ON BASEMENT

NULLARBOR

OUTCROP IN DUNES

Road
Creek or river
Town or homestead
Railroad
Fence line
Lake

LOCATION DIAGRAM

5 0 5 10 15 20
KILOMETRES
SCALE 1 250,000

Outline of Barton, Tarcoola E.L. and Aero Mag. survey.

132° 133°30' 20°
31°
BARTON H53-9
TARCOOLA H53-10
FOWLER H53-13
CHILDARA H53-14

1:250,000 SHEET LOCATION

8562-4

AUSTRALIAN ANGLO AMERICAN LIMITED
and STOCKDALE PROSPECTING LIMITED

BARTON H53-9
REMOTE SENSING STUDY

SAND COVER MAP

Compiled from Landsat image and K spectrometry interpretation

E.L. 1141-1143 Part 1 & 3rd Sept 83

Compiled MCH
Drawn ADS
Date APRIL
Scale 1:250,00
Revised
SEL 19 1

8562-5 H53-9

5436-1

1:50,000

5436-1/W | 5436-1/E

132°45' | 133°00' | 61 | 0000y E

30°30' | 30°45'

59 | 60

22 | 21

1200000y N

590000y E

E.L. 1149 (SPL)

E.L. 1150 (SPL)

E.L 1151 (SPL)

E.L. 898 (CEC) J.V.

Elev. 803ft.

Elev. 645ft.

TRANS AUSTRALIAN RAILWAY

Umgaga Rocks

CEC tracks (from aerial photos)

W/01 - D.H. 1 & 3

W/02 - D.H. 1A & 1B

W/03 - D.H. 1 & 2

W/04

W/05 - D.H. 1

W/06 - D.H. 1, 2A & 2B

W/06A

W/07 - D.H. 1

W/08 - D.H. 1, 3A, 3B & 4

W/09

W/09A

W/09B

W/10

W/11

W/12 - D.H. 1

W/13 - D.H. 1

W/14

W/15

W/16

W/17

W/18

W/19

W/20 - D.H. 1

W/21

W/22

W/23

W/24A

W/24B

W/24C

E/01

E/02 - D.H. 1 & 2

E/03

E/04 - D.H. 1 & 2

E/05 - D.H. 1

E/06

E/07 - D.H. 1

E/08

E/09

E/10 - D.H. 1

E/11

E/12

E/13

E/14

E/15

E/16

E/17

E/18A

E/18B

E/18C

E/19 - D.H. 1

X1247 (NEAR OUTCROP OF BASEMENT)

BARTON, H53-9 LOCATION

SHEET 5436-1

This map is an enlargement from part of the Barton 1:250,000 sheet

Anomaly centre (Geophysical)

Drill hole

Sample location.

Grainsize sample (current quarter)

NOTE: This map is divided into east and western halves and all anomaly numbers, (eg. W/9) are prefixed by the 1:50,000 sheet no. eg. E/10 should read: 5436-1/E/10
The drill hole number is then added to the anomaly number eg. E/10 - D.H. 2
The sample numbers for each hole are listed beside the small drillhole no.

October 1982

X0619 - 0659, X1901 - 1902, X1920 } loam samples

(Total 44)

Drill Hole Samples - Oct.-Nov. '82

X0663 - 1059
X1065 - 1087
X1092 - 1112
X1128 - 1154
(Total 468)
(Refer to 'Note' at bottom of sheet)

Drill Hole Samples Nov. '82

X 1208 - 1239 (W09/DH.1)
(total 32)

GRAINSIZE (DRILL) SAMPLES DEC. 1982

X 1060 - 1064
X 1088 - 1091
X 1113 - 1117
X 1160 - 1162
X 1240 - 1241
X 1801 - 1806
X 1828 - 1972
X 1936 - 1948
X 1999 - 2000
(total 85)

GRAINSIZE (SURFACE) SAMPLES DEC. 1982

X 1118 - 1127
X 1155 - 1159
X 1242 - 1247
X 1807 - 1821
X 1873 - 1897
X 1949 - 1998
(total 111)

Jan - Feb 1983 (loam samples)

X 1249 - 1250
X 1252 - 1254
X 1257 - 1259
X 1272 - 1276
X 1279 - 1283
X 1296 - 1300
X 1359 - 1363
X 1368 - 1372
X 1387 - 1391
X 1394 - 1398
X 1411 - 1415
X 1420 - 1424
X 1431 - 1435
X 1468 - 1469
X 1507 - 1511
X 1517
(Total 66)

Grainsize (surface) Samples Jan - Mar '83

X 1248
X 1251
X 1255 - 1256
X 1260 - 1271
X 1277 - 1278
X 1284 - 1295
X 1331 - 1358
X 1364 - 1367
X 1373 - 1386
X 1392 - 1393
X 1401 - 1410
X 1416 - 1419
X 1425 - 1430
X 1437 - 1467
X 1472 - 1495
X 1501 - 1502
X 1512 - 1516
X 1522 - 1526
(Total 166)

MAP 6

STOCKDALE PROSPECTING LTD.

5436-1

SAMPLE LOCATION MAP

AS AT 2/9/83

8562-5

1146 - 1153 1st 1/4 to 3rd Sept 83

8562-6

EL 995

EL 994

EL 1152

EL 890
(CEC JV)

EL 1149

EL 1148

EL 1153

EL 1151

EL 1147

5337-1/W 5337-1/E 5437-4/W 5437-4/E 5437-1/W 5437-1/E 5537-4/W

5337-3/W 5337-3/E 5337-2/W 5337-2/E 5437-3/W 5437-3/E 5437-2/W 5437-2/E 5537-3/W 5537-3/E 5537-2/W 5537-2/E

5336-4/W 5336-4/E 5336-1/W 5336-1/E 5436-4/W 5436-4/E 5436-1/W 5436-1/E 5536-4/W 5536-4/E 5536-1/W 5536-1/E 5636-4/W 5636-4/E 5636-1/W 5636-1/E

5336-3/E 5336-2/W 5336-2/E 5436-3/W 5436-3/E 5436-2/W 5436-2/E 5536-3/W 5536-3/E 5536-2/W 5536-2/E 5636-3/W 5636-3/E 5636-2/W 5636-2/E

no 5436-4/E03

5535-1/W 5635-4/W

30°30

31°

33°30

SCALE 1:250,000

8562-6

2nd '14 to 2nd Dec '83

STOCKDALE PROSPECTING LIMITED

H 53-9,10,13,14

BARTON-TARCOOLA

ANOMALY LOCATIONS

OVERLAYS SEL 694

MAP 2

Compiled MHM
Drawn R.RW
Date May 83
Scale 1:250,000
Plan No. 2/4/63
SF 95A

FOURTH QUARTER ENDING 2 JUNE, 1984

EL and Sheet (1:25,000) Locations

BARTON H53-9

8562-7

TARCOOLA H53-10

E.L. 995

E.L. 994

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

IMMARNA

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

TRANS AUSTRALIAN RAILWAYS

FOWLER H53-13

CHILDARA H53-14

132°
132° 30'
133°
133° 30'
134°
30°
30° 30'
31°

S.P.L. GROUND TARGET
GROUND MAGNETIC SURVEY
ELECTRICAL SOUNDINGS
LOAM SAMPLES

ROAD/TRACK
E.L. BOUNDARY

8562-7

0 5 10 15 20 Kms

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
BARTON - TARCOOLA
E.L. & SHEET (1:25,000)
LOCATIONS
GROUND GEOPHYSICAL SURVEY

Compiled	H.R.R.
Drawn	A.D.S.
Date	APRIL '84
Scale	1:250,000
Revised	2.6.84
SEL 2198 A	

4th May to 2nd June 84

FIFTH QUARTER ENDING 2 SEPTEMBER, 1984

VLF and Magnetic Profiles

Fig. 1 Anomaly 5436-1/W11

Fig. 2 Anomaly 5436-4/E12

Fig. 3 Anomaly 5436-4/E10

Fig. 6 Anomaly 5536-1/E05

Fig. 8 Anomaly 5436-4/W12

Fig. 12 Anomaly 5536-4/E07

Fig. 13 Anomaly 5536-4/E08

Fig. 14 Anomaly 5536-4/W10

Fig. 15 Anomaly 5536-1/W07

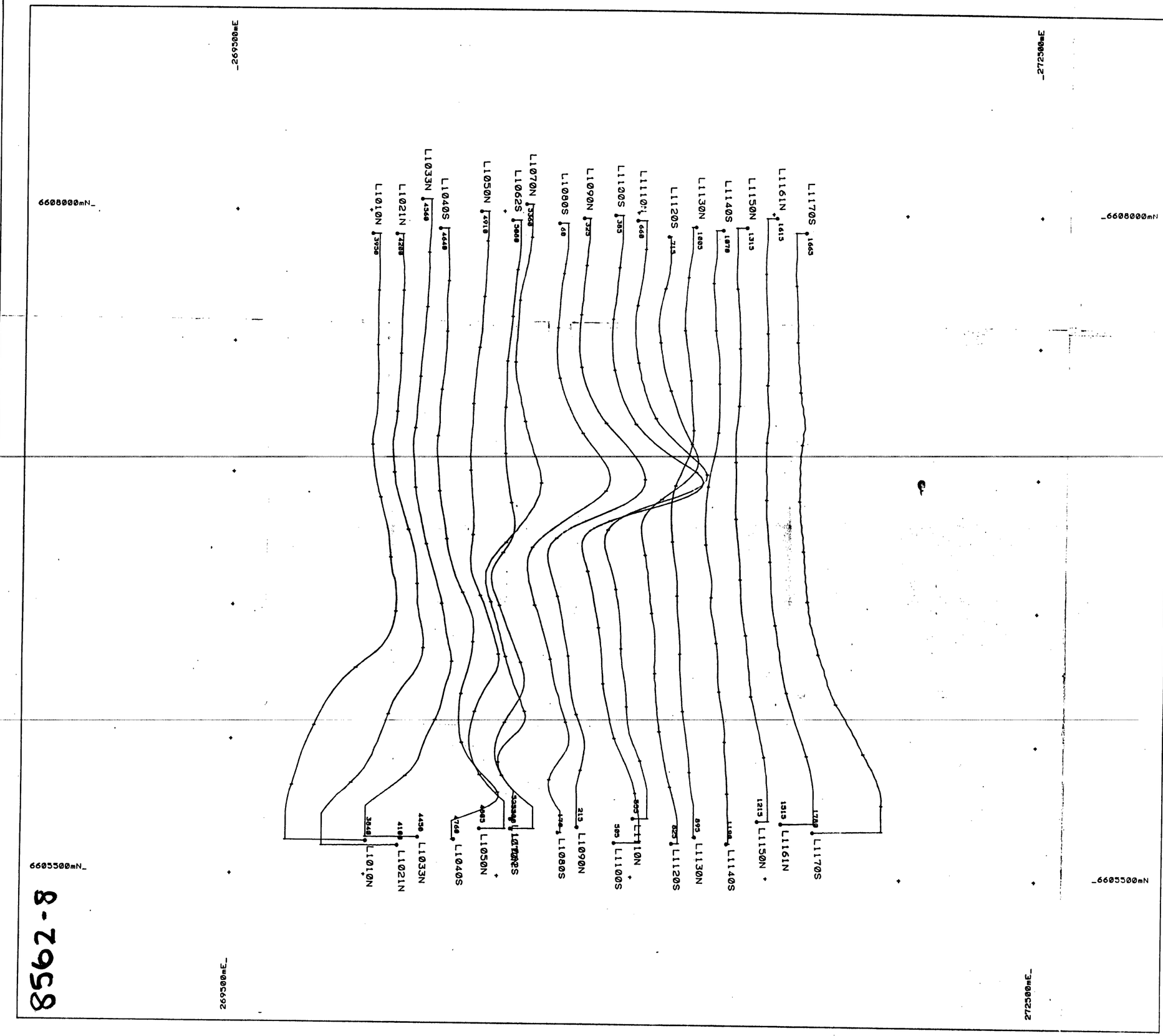
Fig. 17 Anomaly 5536-4/W03, W04

Fig. 25 Anomaly 5636-1/E05

Fig. 30 Anomaly 5436-2/E26

Fig. 31 Anomaly 5436-2/E17

Fig. 32 Anomaly 5435-4/W01, W02, W03



8562-8

NORTH

STACKED PROFILES(20nT/cm)

0m 500m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	9th June 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G813
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NWC (22.5KHz)
Average height:	77 m.
Height of bird:	30 m.
Average speed:	54 knots.

DATA SPECIFICATIONS

Compiled:	June 1984
Sample interval:	19m at 50 knots
Noise estimate:	2.2nT
Mag sensitivity:	.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar
Noise filter:	10m continuation

STOCKDALE PROSPECTING LTD

BARTON H53-9

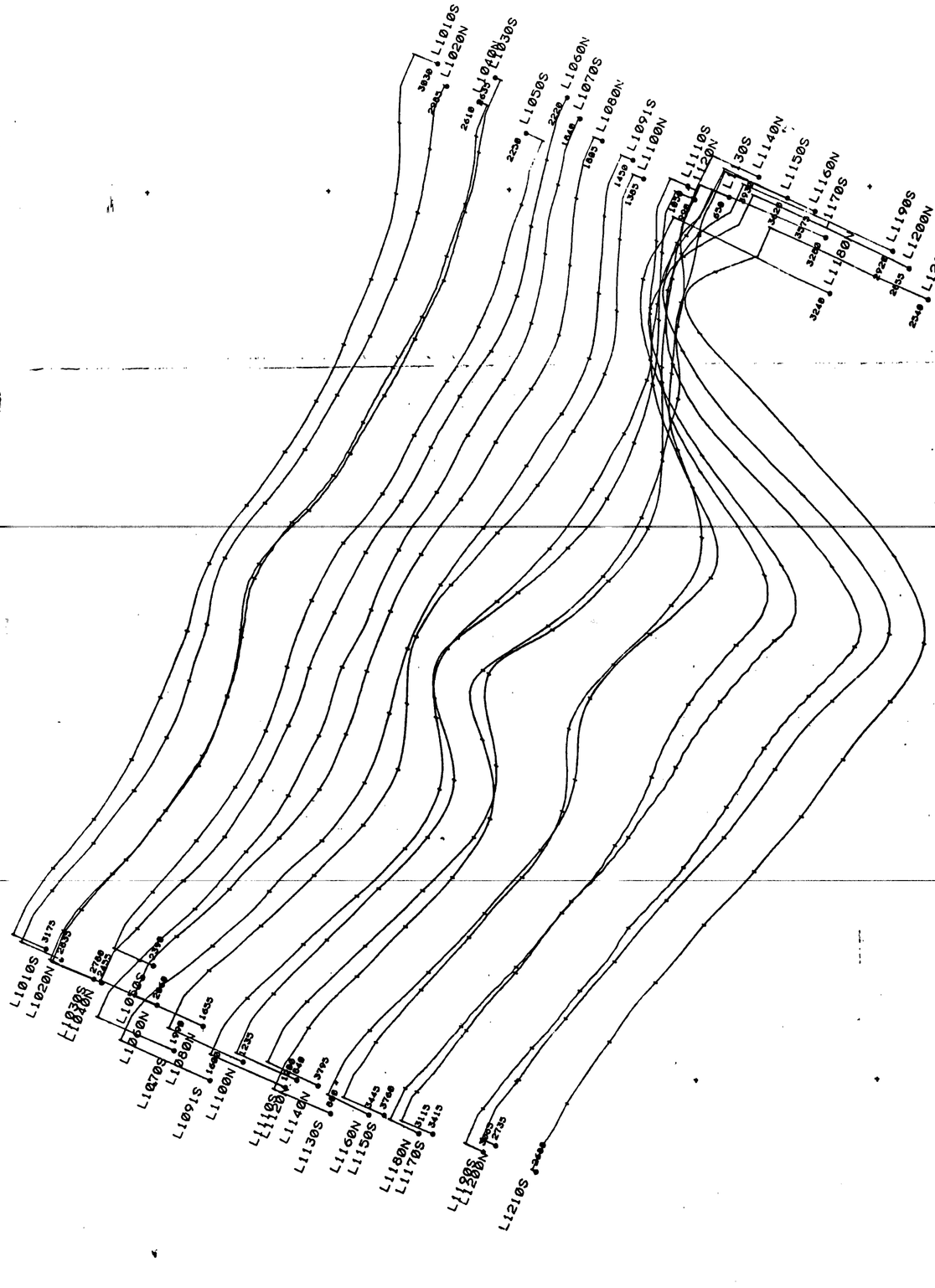
ANOMALY 5436-4/W11

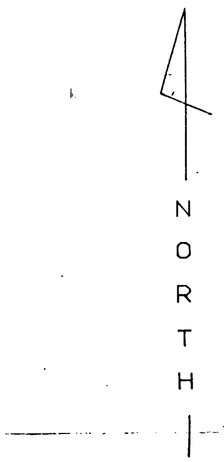
8562-8

5th 'W4le 2nd Sept'84

FIGURE1
SEL G362b

8562-9





STACKED PROFILES(25nT/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	8th June 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	VLF and magnetic
Magnetometer type:	Geometrics G813
VLF receiver type:	Herz Totem 1A
VLF transmitter:	NWC (22.5KHz)
Average height:	77 m.
Height of bird:	30 m.
Average speed:	50 knots.

DATA SPECIFICATIONS

Compiled:	June 1984
Sample interval:	19m at 50 knots
Noise estimate:	1.6nT
Mag sensitivity:	.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar
Noise filter:	10m continuation

STOCKDALE PROSPECTING LTD

BARTON H53-9

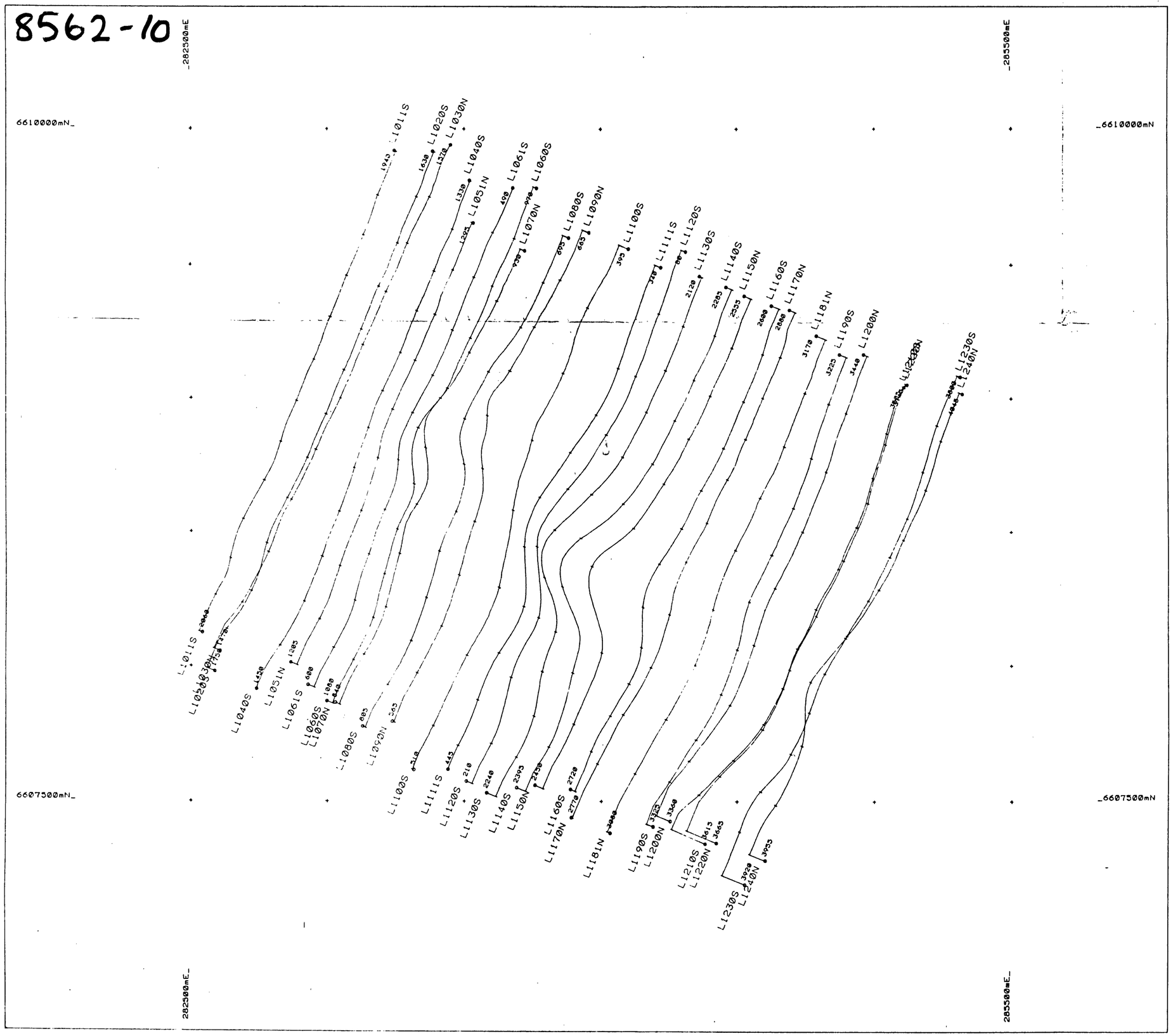
ANOMALY 5436-4/E12

8562-9

5th 4th to 2nd Sept'84

FIGURE2
SEL G364b

8562-10



NORTH

STACKED PROFILES (20units/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	8th June 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	VLF and magnetic
Magnetometer type:	Geometrics G813
VLF receiver type:	Herz Totem 1A
VLF transmitter:	NWC (22.5KHz)
Average height:	77 m.
Height of bird:	30 m.
Average speed:	49 knots.

DATA SPECIFICATIONS

Compiled:	June 1984
Sample interval:	19m at 50 knots
Noise estimate:	2.1nT
Mag sensitivity:	1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar
Noise filter:	10m continuation

STOCKDALE PROSPECTING LTD

BARTON H53-9

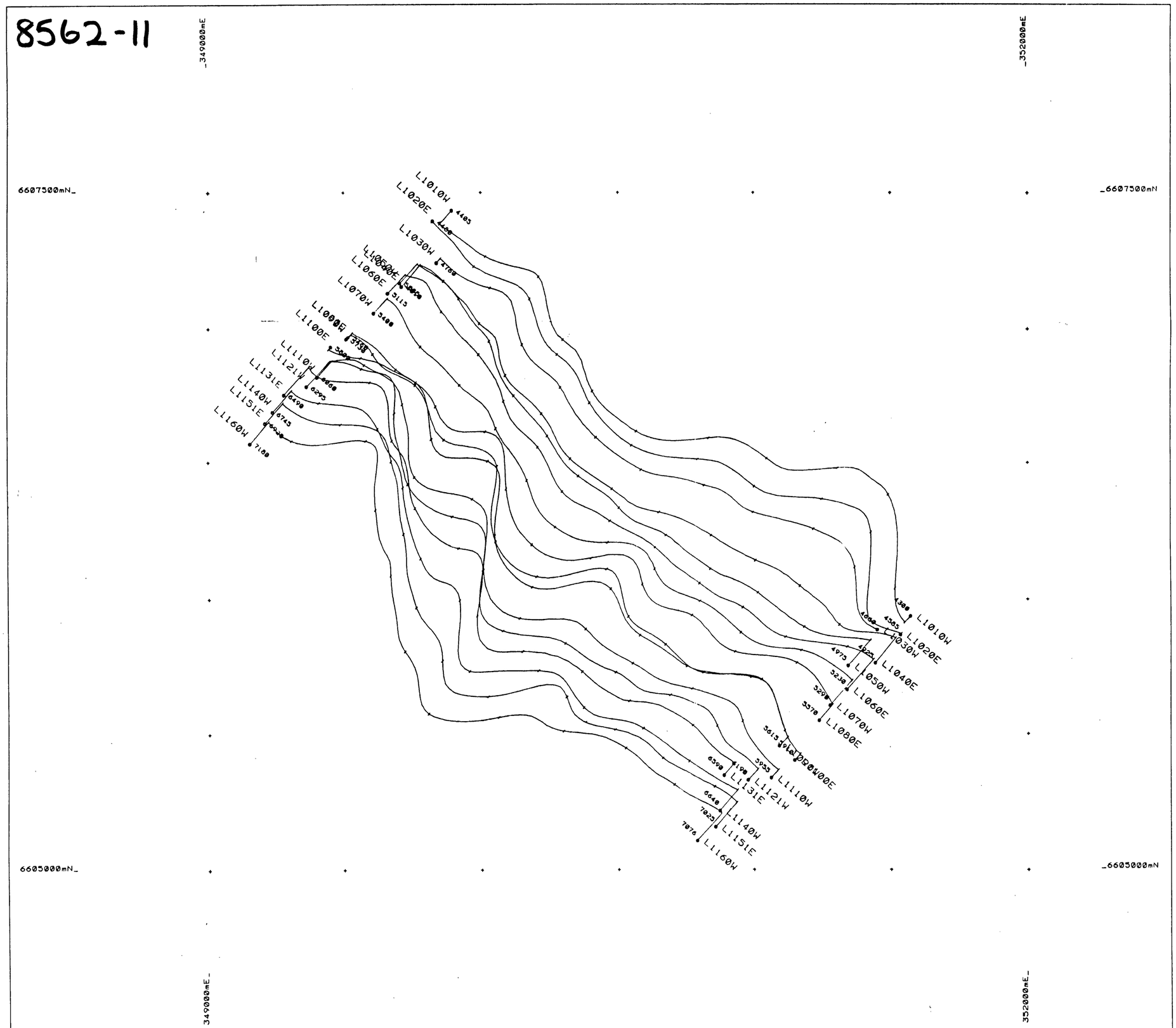
ANOMALY 5436-4/E10

8562-10

FIGURE 3
3EL G363b

Shirley to 7th Sept 84

8562-11



N O R T H

STACKED PROFILES(50nT/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	14th June 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G813
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NWC (22.5KHz)
Average height:	78 m.
Height of bird:	30 m.
Average speed:	53 knots.

DATA SPECIFICATIONS

Compiled:	June 1984
Sample interval:	19m at 50 knots
Noise estimate:	2.3nT
Mag sensitivity:	.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar
Noise filter:	10m continuation

STOCKDALE PROSPECTING LTD

BARTON H53-9

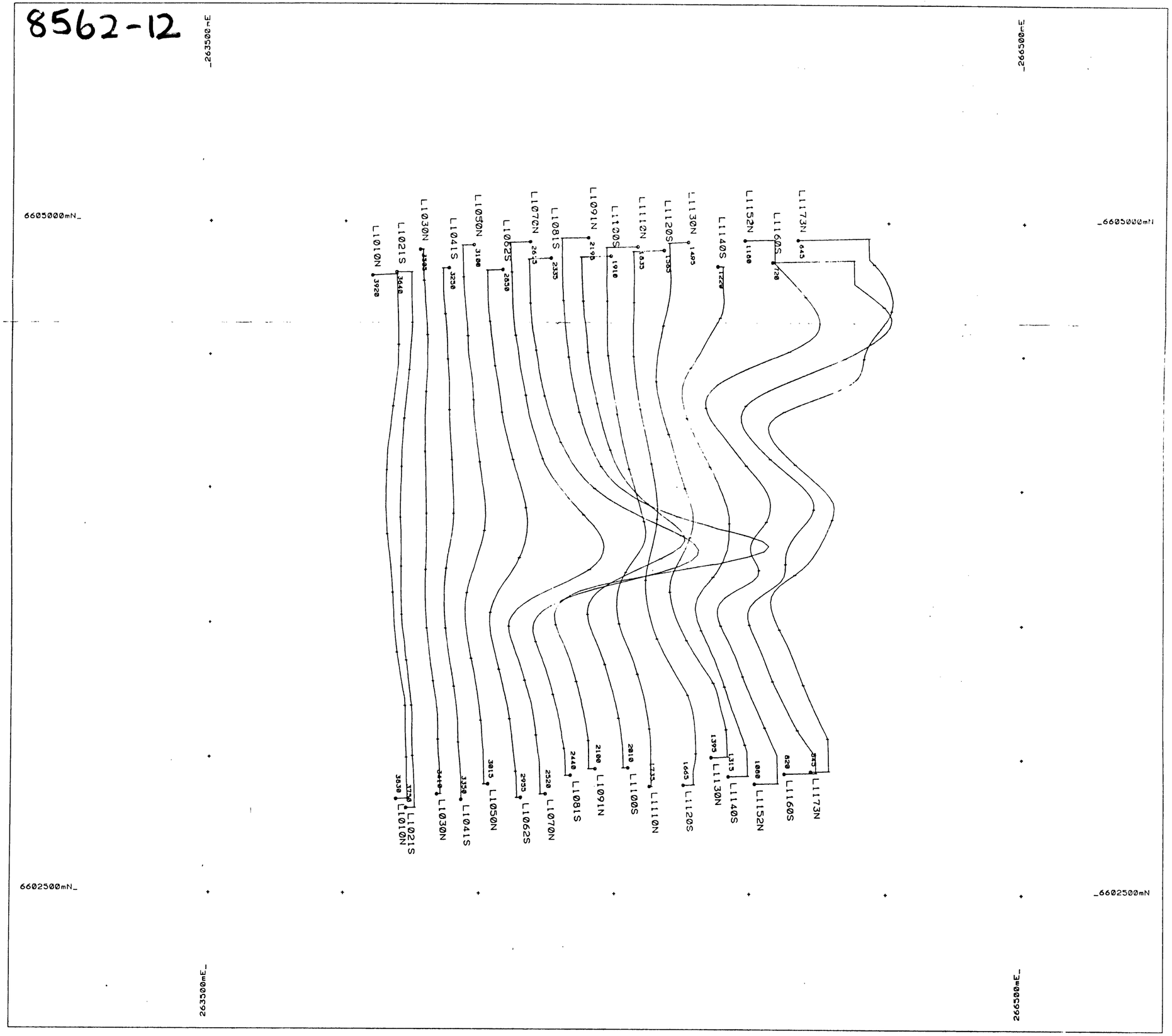
ANOMALY 5536-1/E05

8562-11

FIGURE 6

5th '14 & 2nd Sept's 4 SEL G365b

8562-12



NORTH

STACKED PROFILES (50nT/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	23rd June 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G813
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NWC (22.5KHz)
Average height:	75 m.
Height of bird:	30 m.
Average speed:	54 knots.

DATA SPECIFICATIONS

Compiled:	June 1984
Sample interval:	19m at 50 knots
Noise estimate:	3.0nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar
Noise filter:	10m continuation

STOCKDALE PROSPECTING LTD

BARTON H53-9

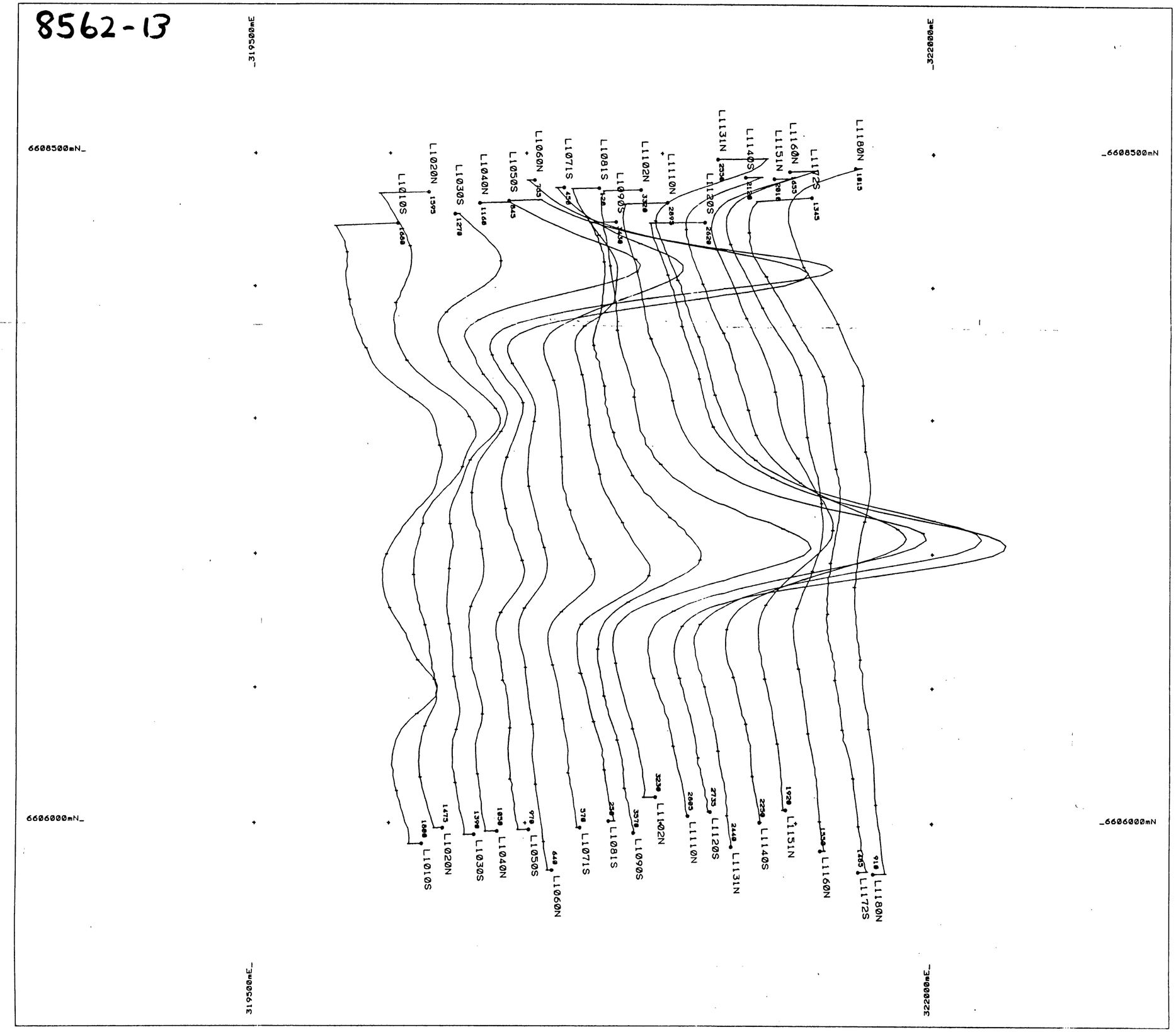
ANOMALY 5436-4/W12

8562-12

FIGURE 8

SEL G369b

8562-13



N O R T H

STACKED PROFILES (25nT/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	29th June 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G813
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NWC (22.5KHz)
Average height:	71 m.
Height of bird:	30 m.
Average speed:	55 knots.

DATA SPECIFICATIONS

Compiled:	June 1984
Sample interval:	19m at 50 knots
Noise estimate:	2.8nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar

STOCKDALE PROSPECTING LTD

BARTON H53-9

ANOMALY 5536-4/E07

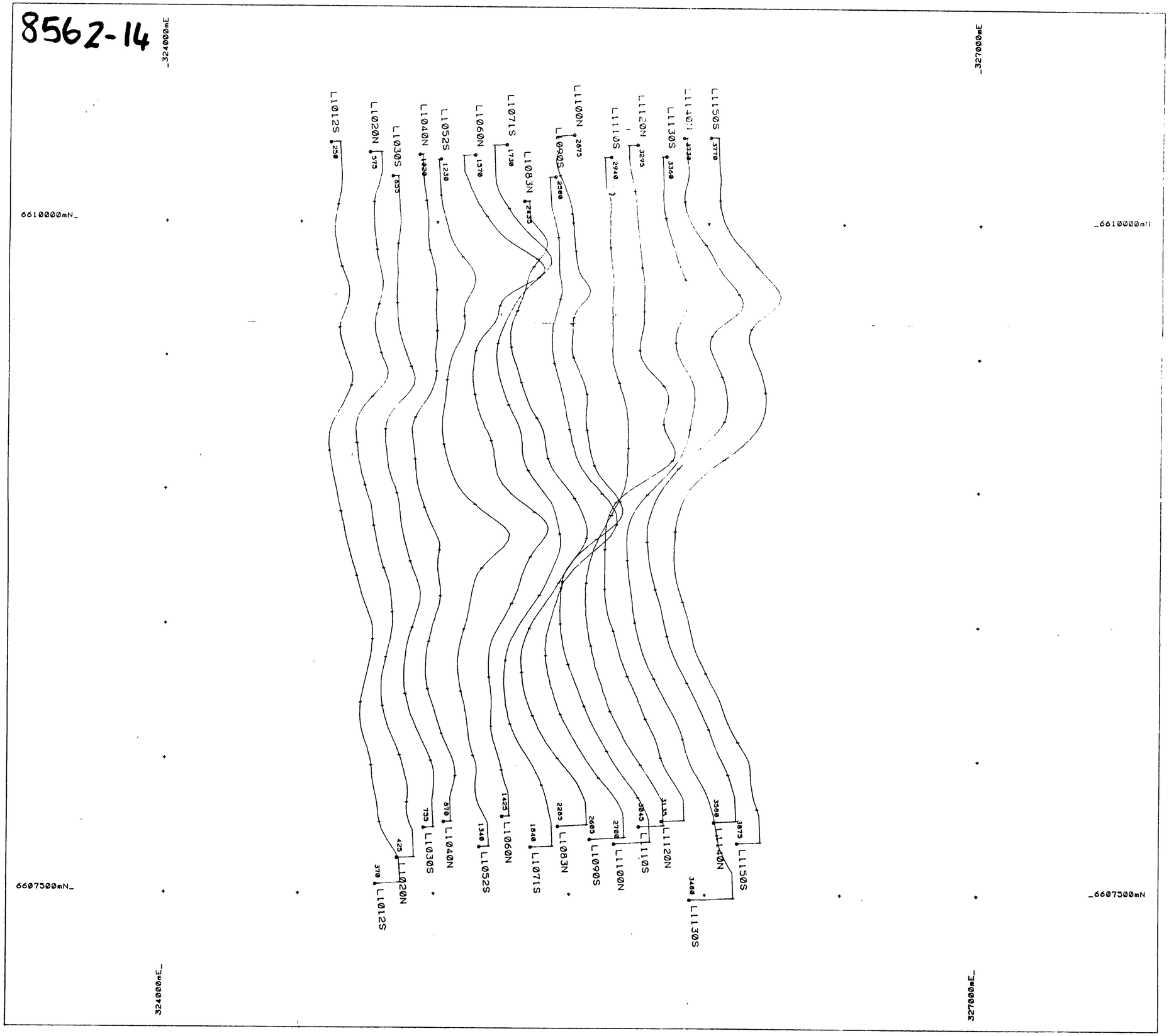
8562-13

Sit 114 to 2nd Sept' 84

FIGURE 12

SEL G404b

8562-14



NORTH

STACKED PROFILES(25nT/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	29th June 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G813
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NWC (22.5KHz)
Average height:	64 m.
Height of bird:	30 m.
Average speed:	51 knots.

DATA SPECIFICATIONS

Compiled:	June 1984
Sample interval:	19m at 50 knots
Noise estimate:	3.0nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar
Noise filter:	10m continuation

STOCKDALE PROSPECTING LTD

BARTON H53-9

ANOMALY 5536-4/E08

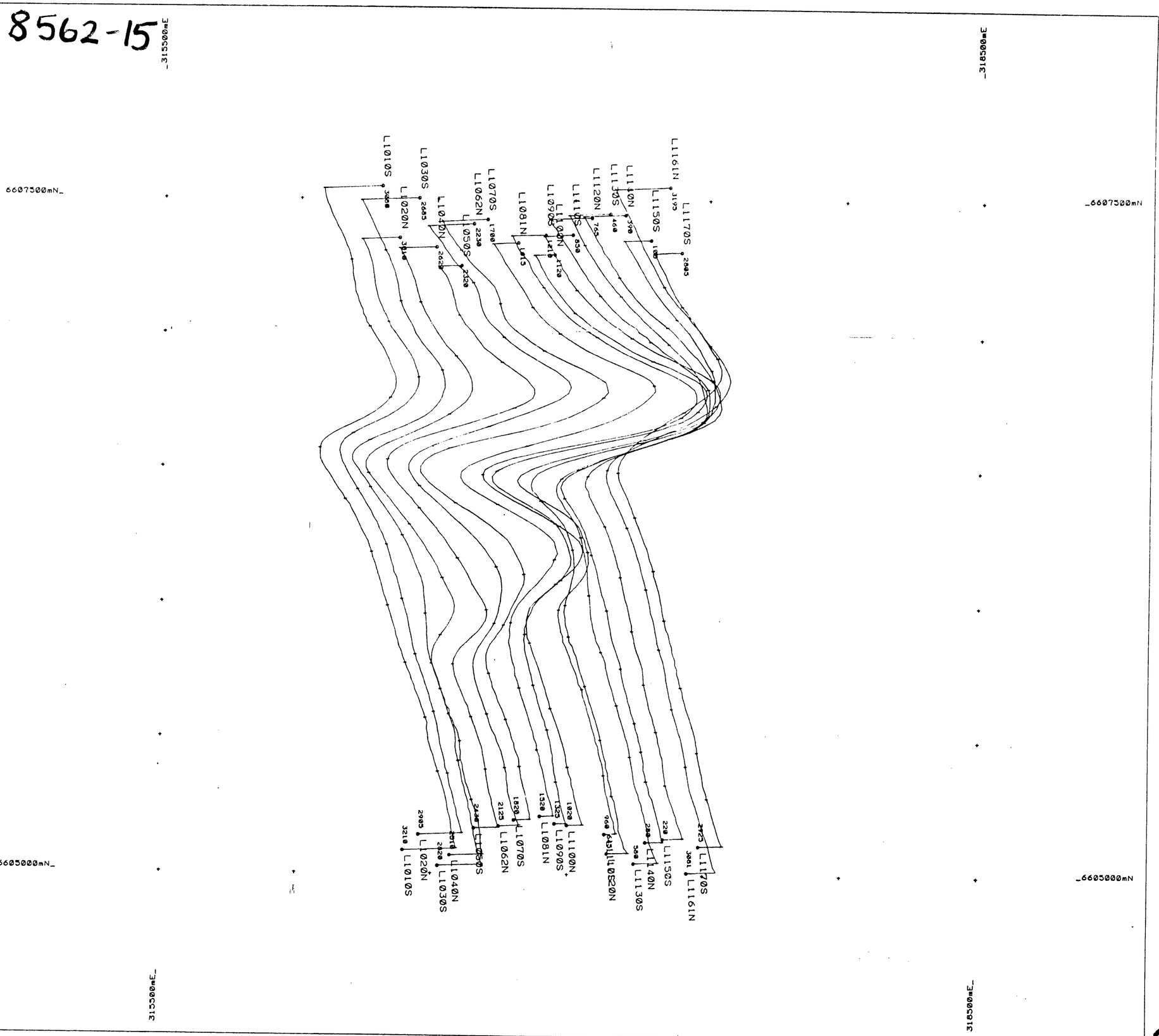
8562-14

Sh 14 to 2nd Sept '84

FIGURE 13

SEL G401b

8562-15



NORTH

STACKED PROFILES(25nT/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	29th June 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G813
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NWC (22.5KHz)
Average height:	65 m.
Height of bird:	30 m.
Average speed:	52 knots.

DATA SPECIFICATIONS

Compiled:	June 1984
Sample interval:	19m at 50 knots
Noise estimate:	2.1nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar

STOCKDALE PROSPECTING LTD

BARTON H53-9

ANOMALY 5536-4/W10

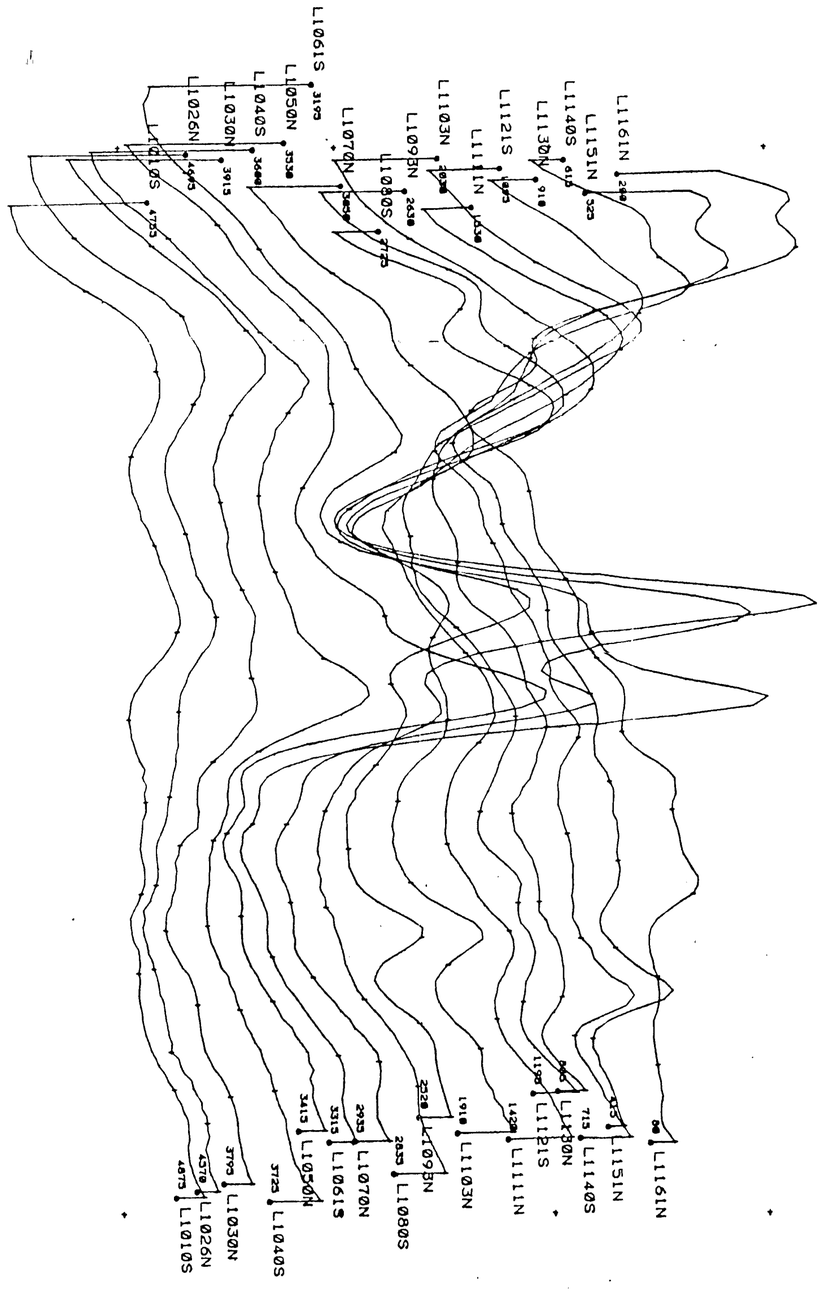
8562-15

FIGURE 14

SEL G403b

Slt 114 to 2nd Sept' 84

8562-16


335500mE
338500mE
6611500mN
6609000mN
L10610S
L10540N
L10470S
L10400N
L10330S
L10260N
L10190S
L10120N
L10050S
L09980N
L09910S
L09840N
L09770S
L09700N
L09630S
L09560N
L09490S
L09420N
L09350S
L09280N
L09210S
L09140N
L09070S
L09000N
L08930S
L08860N
L08790S
L08720N
L08650S
L08580N
L08510S
L08440N
L08370S
L08300N
L08230S
L08160N
L08090S
L08020N
L07950S
L07880N

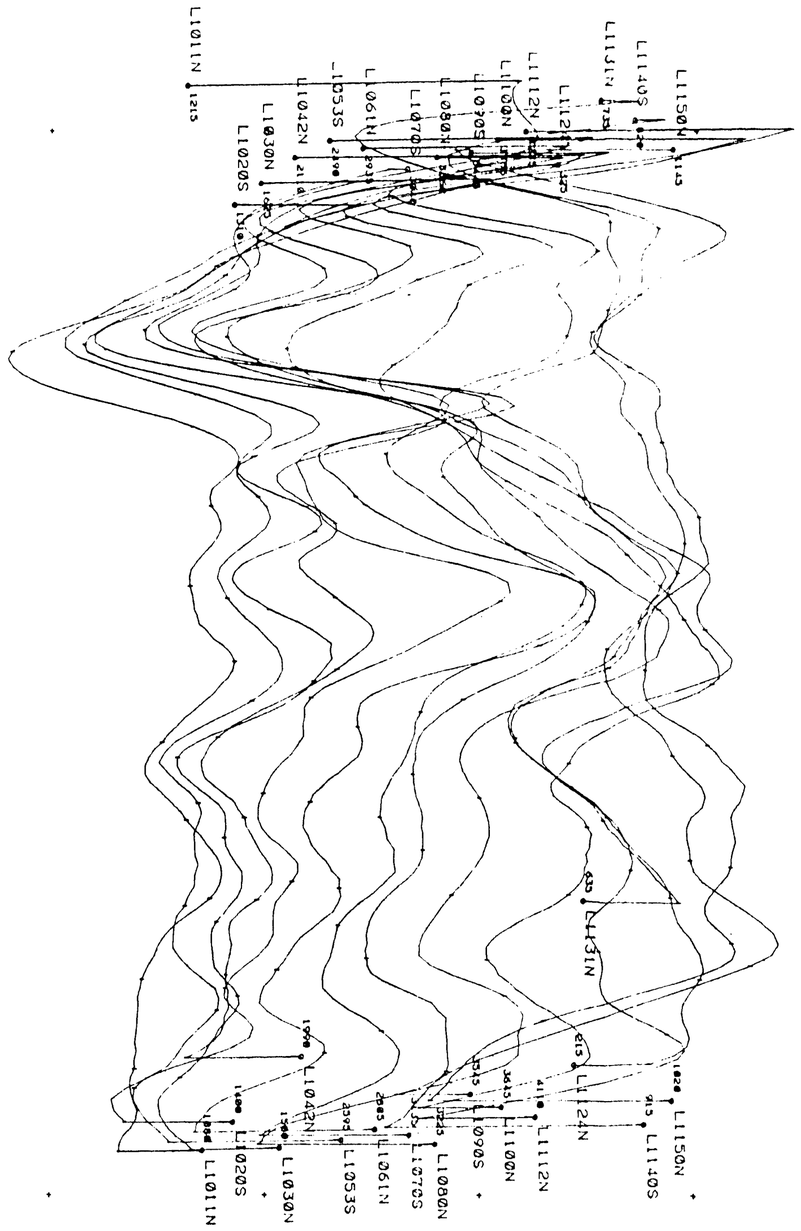
8562-17

396000mE

399000mE

6603500mN

6601000mN



NORTH

STACKED PROFILES (250nT cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	6th July 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	VLF and magnetic
Magnetometer type:	Geometrics G813
VLF receiver type:	Herz Totem 1A
VLF transmitter:	NWC (22.5KHz)
Average height:	68 m.
Height of bird:	30 m.
Average speed:	51 knots.

DATA SPECIFICATIONS

Compiled:	July, 1984
Sample interval:	19m at 50 x 3.6
Noise estimate:	3.0nT
Mag sensitivity:	0.1nT
Mag cycle rate:	3.75 seconds
Position control:	control photograph,
Regional removed:	planar

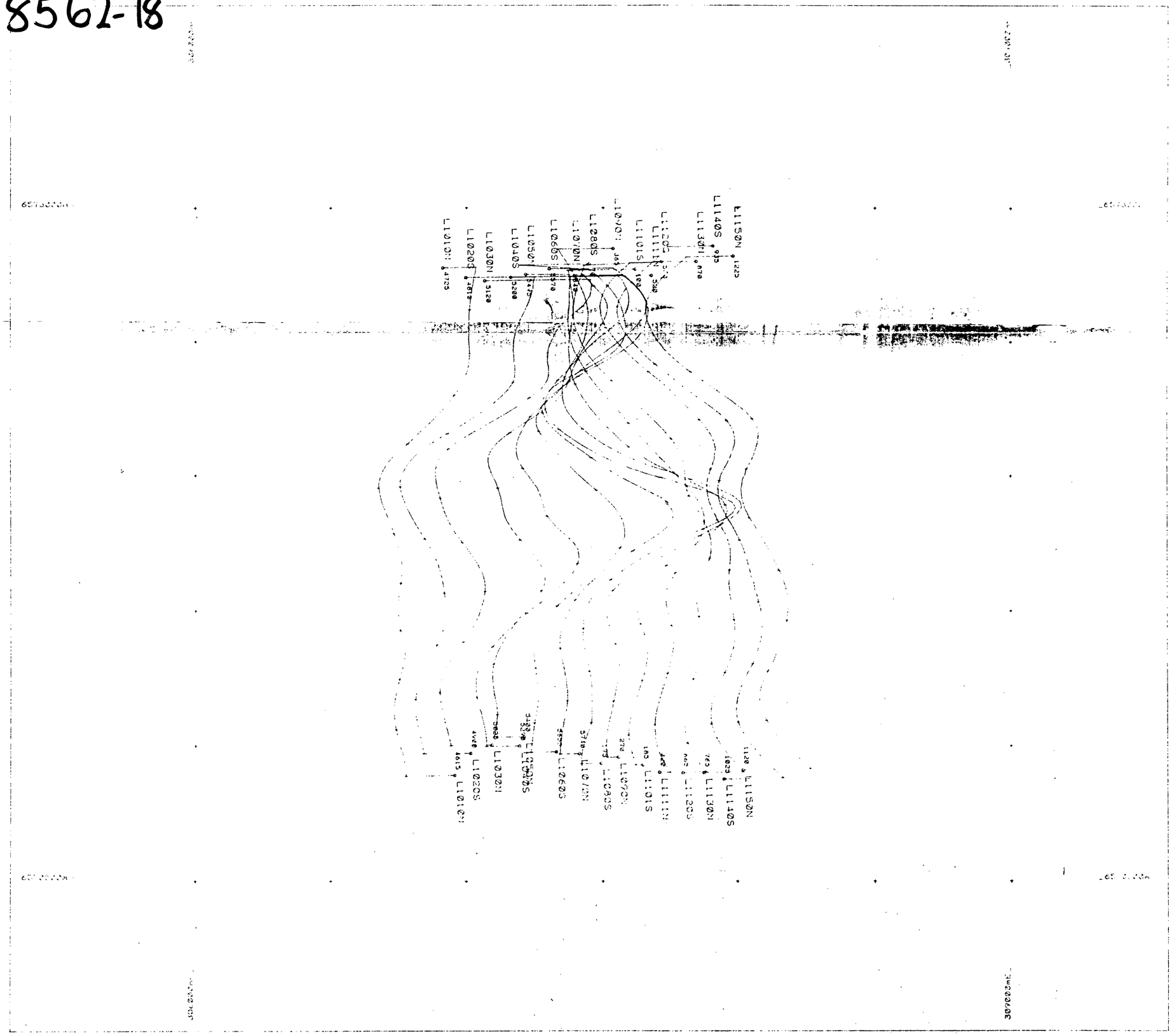
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BARTON 1153-9

ANOMALY 5636-1/E05

8562-17

8562-18



N O R T H

STACKED PROFILES (50nT/cm)

0m 620m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	15th July 1984.
Type of aircraft:	Aerospatiale AS 350 Ecureuil (Squirrel)
Data collected:	VLF and magnetic
Magnetometer type:	Geometrics G-803
VLF receiver type:	Herz Totem 2A
VLF transmitter:	[illegible] (Seattle)
Average height:	[illegible] m.
Height of bird:	[illegible] ft.
Average speed:	[illegible] knots.

DATA SPECIFICATIONS

Compiled:	July 1984
Sample interval:	19m at 50 knots
Noise estimate:	1.0nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photograph,
Regional removed:	planar

SYNCHRONIE PROSPECTING LTD

BARTON H53-9

ANOMALY 5436-2/E26

8562-18

FIGURE 30
SEL G433b

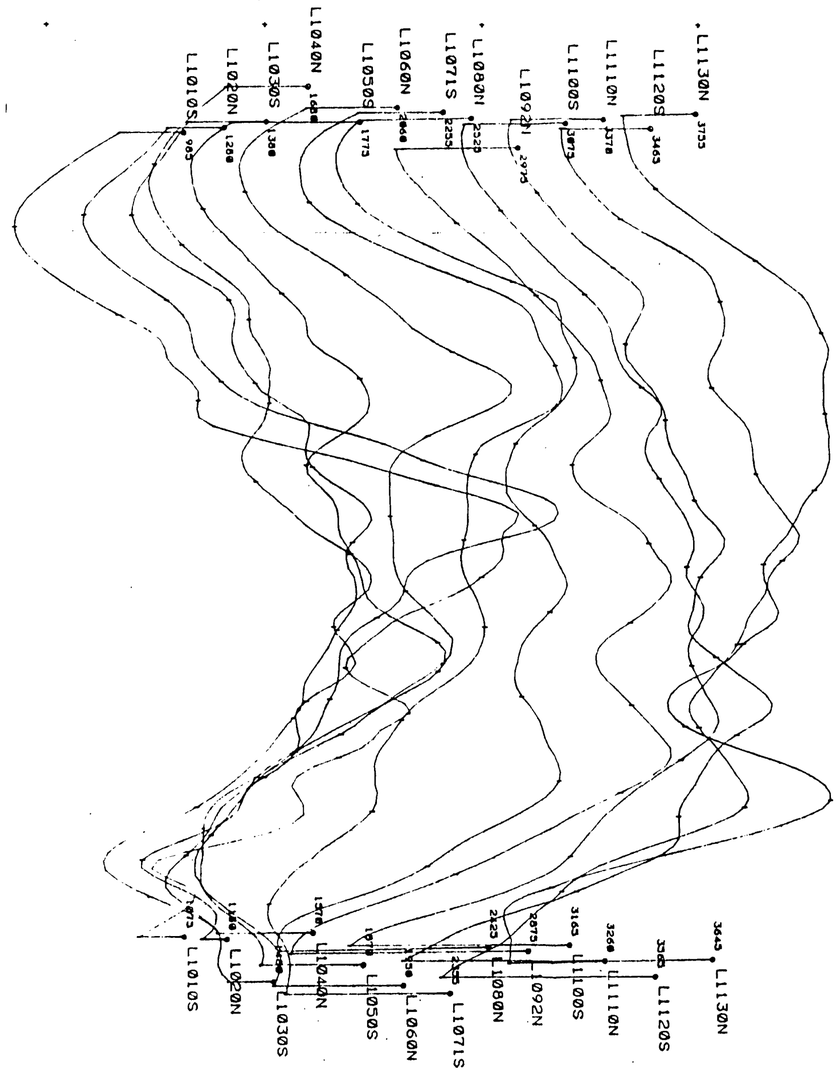
8562-19

306500mE

309500mE

6579000mN

6576300mN



NORTH

STACKED PROFILES(25nT/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	15th July 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G813
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NWC (22.5KHz)
Average height:	68 m.
Height of bird:	30 m.
Average speed:	50 knots.

DATA SPECIFICATIONS

Compiled:	August 1984
Sample interval:	19m at 50 knots
Noise estimate:	2.1nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar

STOCKDALE PROSPECTING LTD

BARTON H53-9

ANOMALY 5436-2/E17

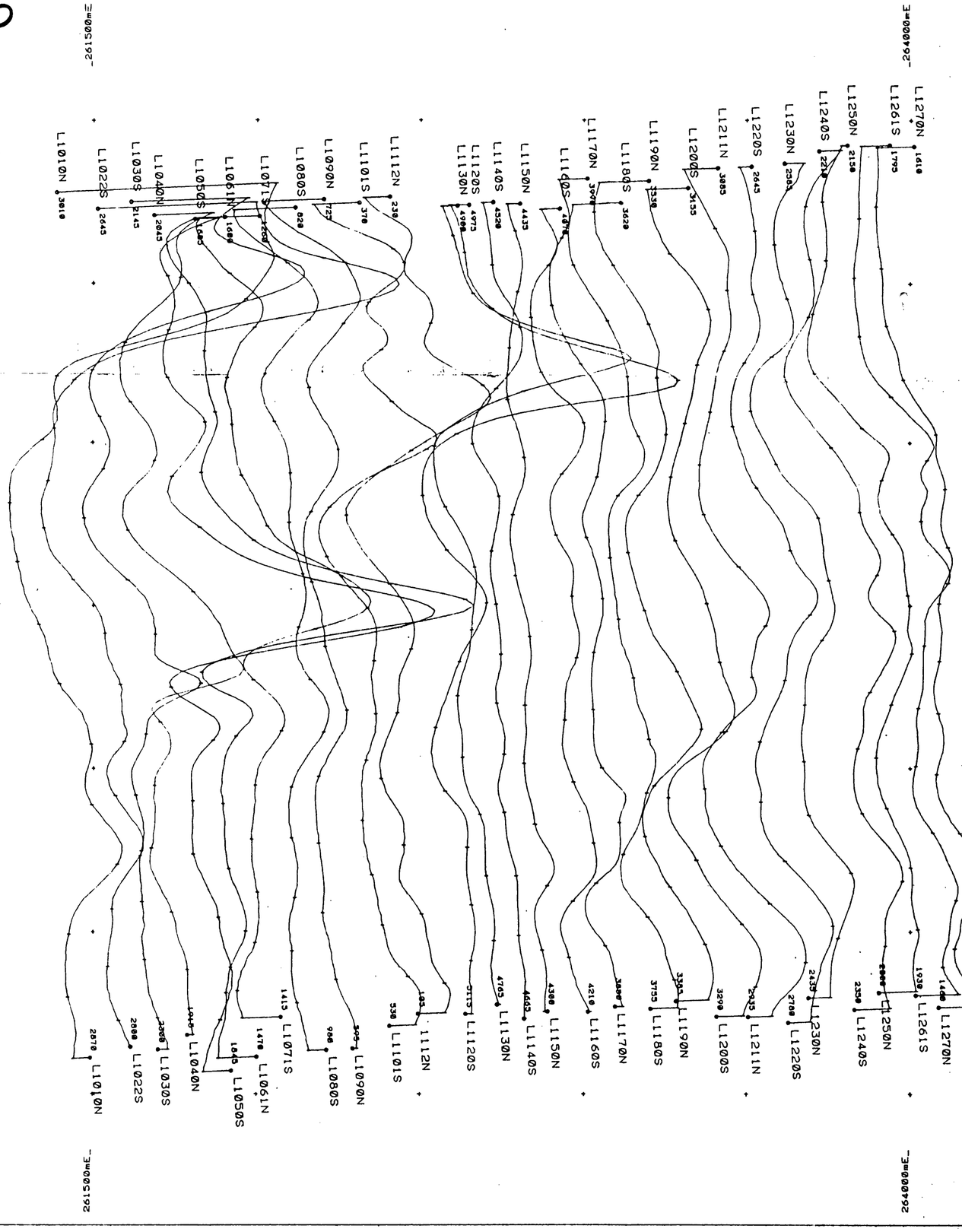
8562-19

FIGURE 31

SEL G432b

Drawn by 2nd Sept '84

8562-20



NORTH

STACKED PROFILES(50nT/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	19th July 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G813
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NWC (22.5KHz)
Average height:	64 m.
Height of bird:	30 m.
Average speed:	47 knots.

DATA SPECIFICATIONS

Compiled:	August 1984
Sample interval:	19m at 50 knots
Noise estimate:	3.1nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.75 seconds
Position control:	control photography
Regional removed:	planar

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FOWLER H53-13

ANOMALY 5435-4/W01,W02,W03

8562-20

Sh 14 to 2nd Sep 84

FIGURE 32
SEL G431b

8562-21

BARTON H53-9

TARCOOLA H53-10

E.L. 995

E.L. 994

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

FOWLER H53-13

CHILDARA H53-14

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

IMMARNA

TRANS AUSTRALIAN RAILWAYS

- SPL GROUND TARGET
- g Ground magnetic survey
- e Electrical resistivity soundings
- s Sirotem survey
- h Helicopter borne geophysical surveys
- l Loam samples

8562-21

0 5 10 15 20 Kms.

5th 'Hy to 2nd Sept'84. MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

BARTON - TARCOOLA

E.L. & SHEET (1:25,000)

LOCATIONS

WITH TARGET LOCATIONS

Compiled	H.R.R.
Drawn	A.D.S.
Date	APRIL '84
Scale	1:250,000
Revised	SEPT 84

FEL 2198 C

SIXTH QUARTER ENDING 2 DECEMBER, 1984

Fig. 4 Total Field Magnetics Anomaly 5535-4/E10

Fig. 6 Total Field Magnetics Anomaly 5536-2/E09

Fig. 7 Total Field Magnetics Anomaly 5535-4/E02, E03

Fig. 13 Total Field Magnetics Anomaly 5536-2/E12

Fig. 14 Total Field Magnetics Anomaly 5536-2/W03, W04

Fig. 21 Total Field Magnetics Anomaly 5435-1/W03

Fig. 30 Total Field Magnetics Anomaly 5535-1/W10

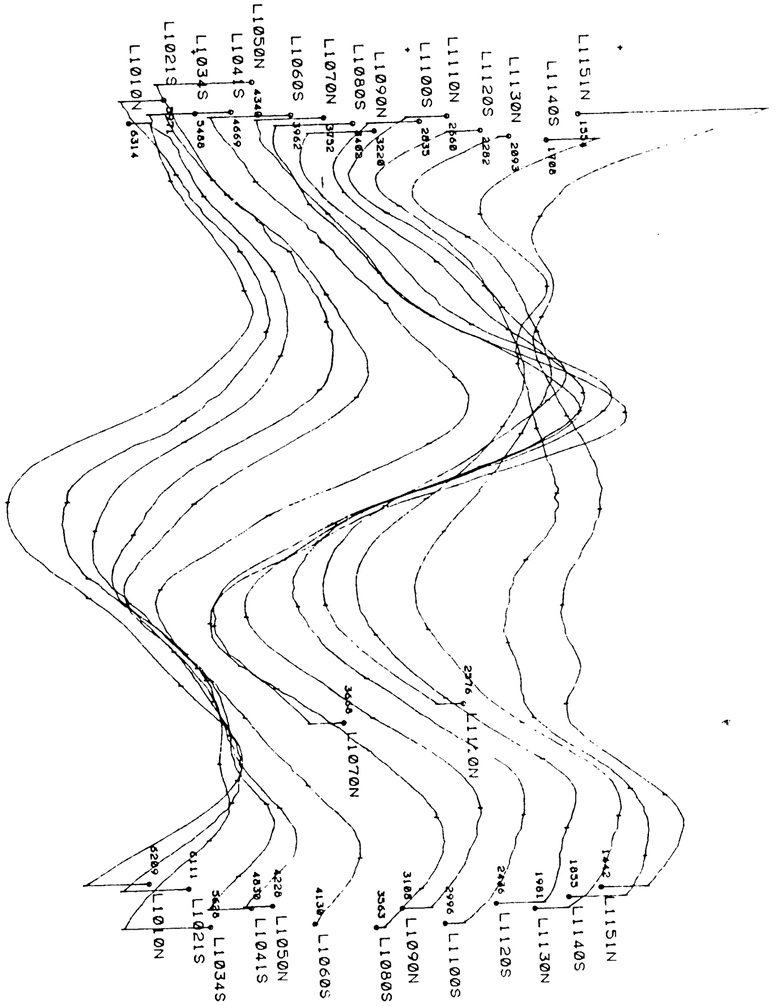
8562-22

_320500mE

_323500mE

6549500mN_

_6549500mN



6547000mN_

_6547000mN

320500mE_

323500mE_

N O R T H

STACKED PROFILES(25units/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	22th July 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	VLF and magnetic
Magnetometer type:	Geometrics G813
VLF receiver type:	Herz Totem 1A
VLF transmitter:	NWC (22.5KHz)
Average height:	69 m.
Height of bird:	30 m.
Average speed:	54 knots.

DATA SPECIFICATIONS

Compiled:	August 1984
Sample interval:	13m at 50 knots
Noise estimate:	2.1nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.5 seconds
Position control:	control photography
Regional removed:	planar

STOCKDALE PROSPECTING LTD

TOTAL FIELD MAGNETICS

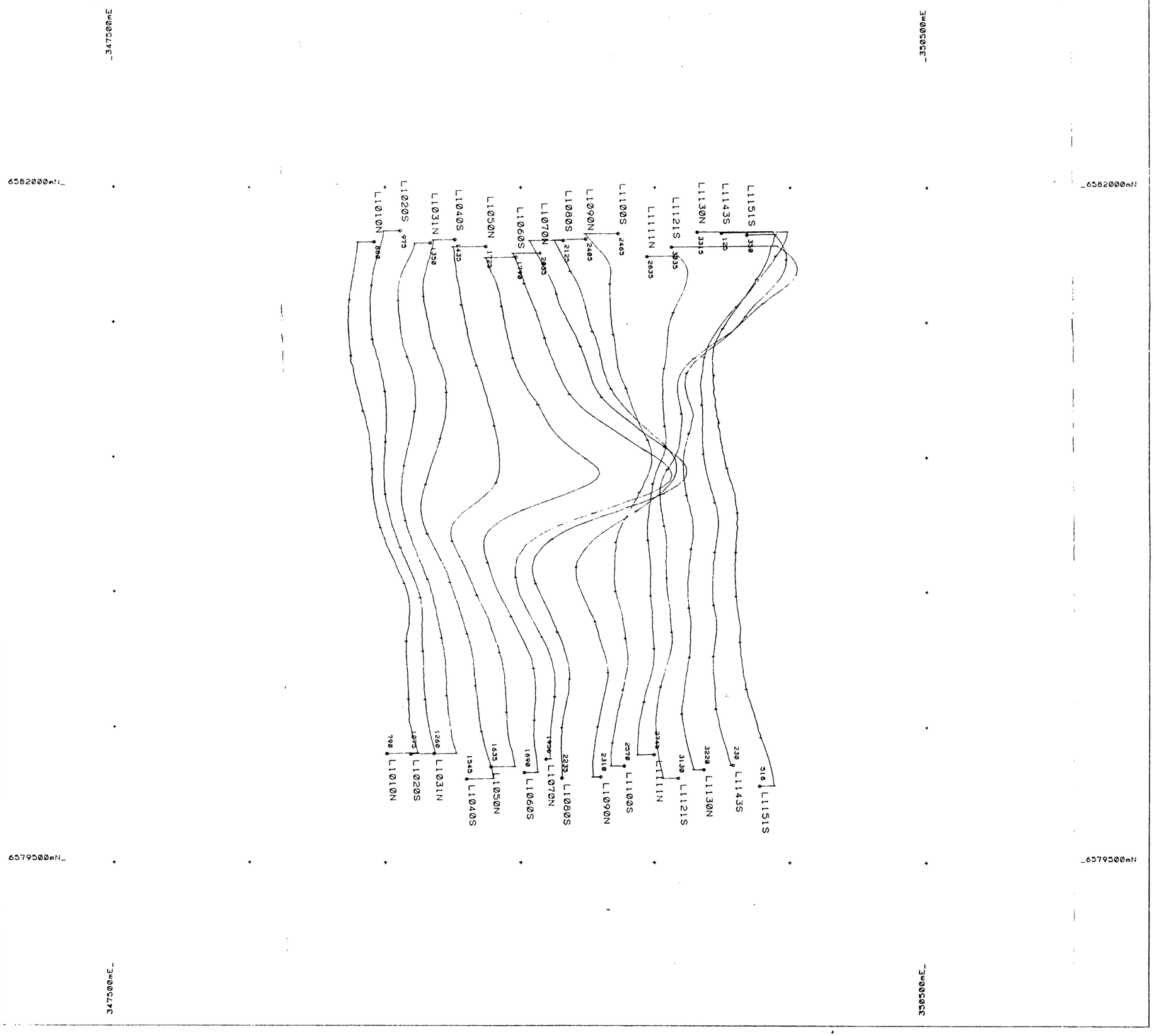
FOWLER H53-13

ANOMALY 5535-4/E10

8562-22

Fig 4
SEL: G442b

8562-23



N O R T H

STACKED PROFILES(25units/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	23th July 1984.
Type of aircraft:	Herospatiale AS350B Ecureuil (Squirrel)
Data collected:	VLf and magnetic
Magnetometer type:	Geometrics G813
VLf receiver type:	Herz Totem 1A
VLf transmitter:	NWC (22.5KHz)
Average height:	67 m.
Height of bird:	30 m.
Average speed:	53 knots.

DATA SPECIFICATIONS

Compiled:	August 1984
Sample interval:	13m at 50 knots
Noise estimate:	1.7nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.5 seconds
Position control:	control photography
Regional removed:	planar

STOCKDALE PROSPECTING LTD

TOTAL FIELD MAGNETICS

BARTON H53-9

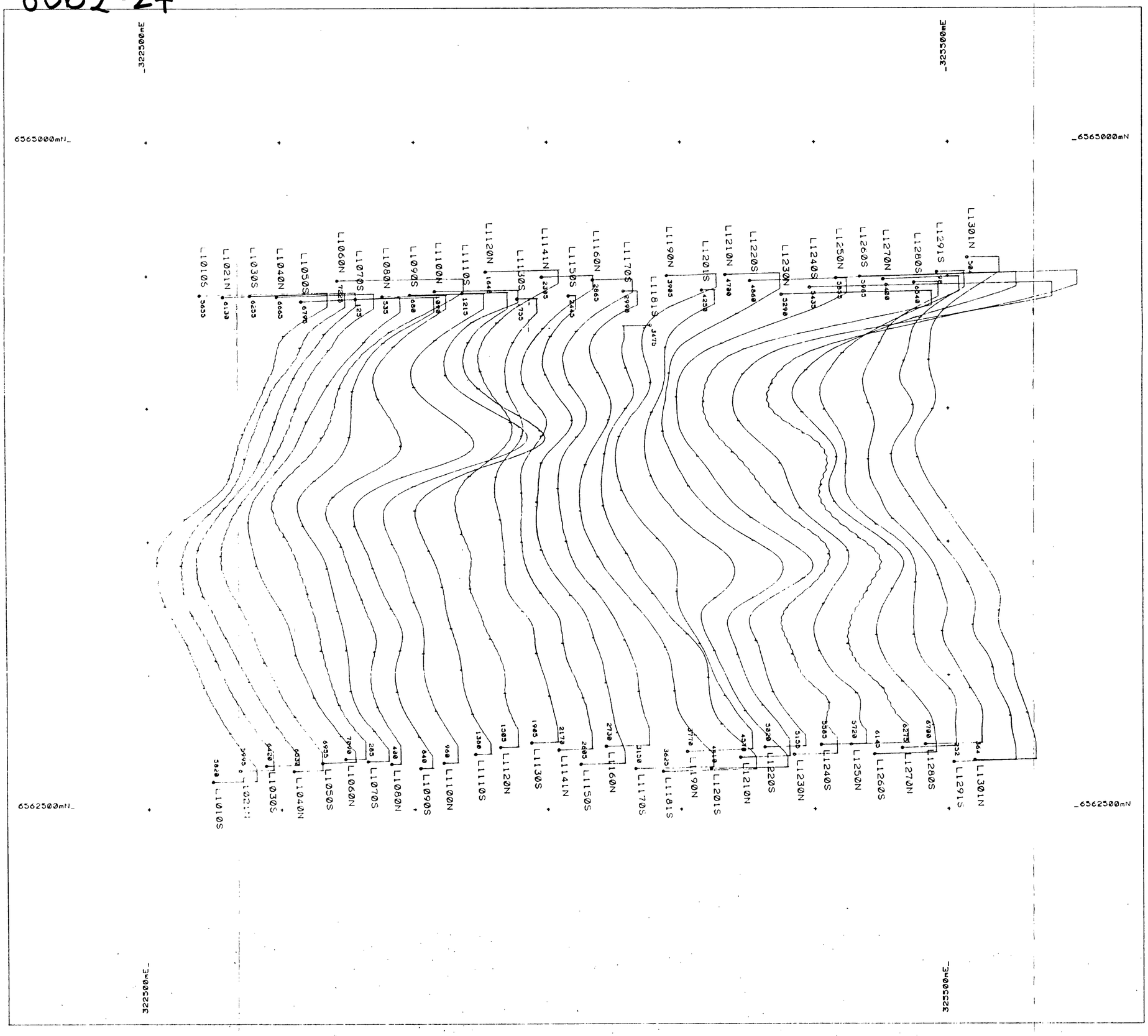
ANOMALY 5536-2/E09

8562-23

Fig 6

SEL: G444b

8562-24



STACKED PROFILES(25units/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	19th July 1984.
Type of aircraft:	Helicopter AS350B Ecureuil (Squirrel)
Data collected:	VLF and magnetic
Magnetometer type:	Geometrics G813
VLF receiver type:	[illegible]
VLF transmitter:	[illegible]
Average height:	65 m.
Height of bird:	30 m.
Average speed:	45 knots.

DATA SPECIFICATIONS

Compiled:	August 1984
Sample interval:	13m at 50 knots
Noise estimate:	1.7nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.5 seconds
Position control:	control photography
Regional removed:	planar
Noise filter:	10m continuation

STOCKDALE PROSPECTING LTD

TOTAL FIELD MAGNETICS

FOWLER H53-13

ANOMALY 5535-4/E02, E03

8562-24

Fig 7
SEL: G439b

SEL 08/84 x 7.8 xc/84

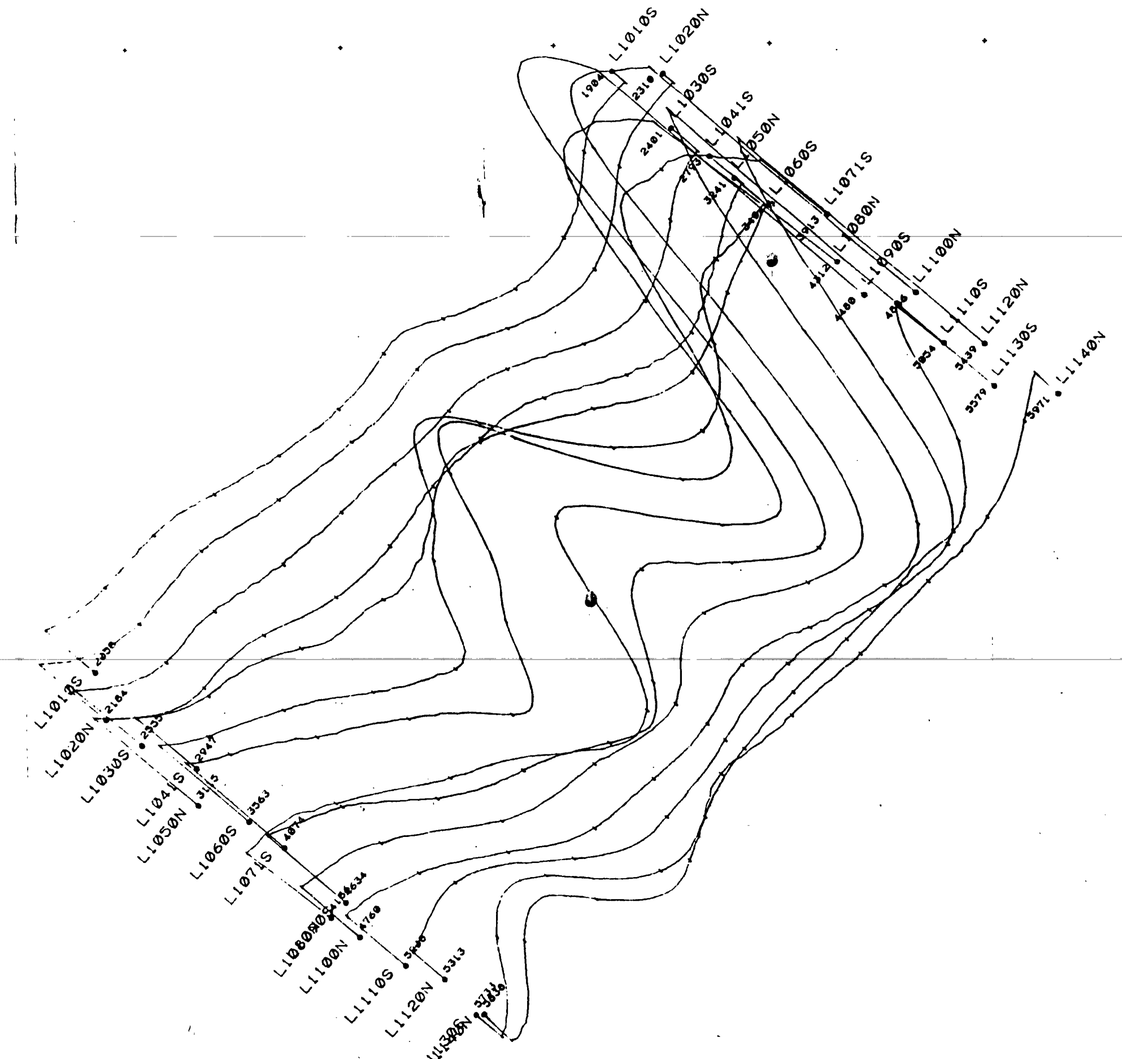
8562-25

348500mE

351500mE

6379500mN

6377000mN



NORTH

STACKED PROFILES(25units/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	23th July 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G813
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NWC (22.5KHz)
Average height:	68 m.
Height of bird:	30 m.
Average speed:	52 knots.

DATA SPECIFICATIONS

Compiled:	August 1984
Sample interval:	13m at 50 knots
Noise estimate:	1.8nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.5 seconds
Position control:	control photograph,
Regional removed:	planar

STOCKDALE PROSPECTING LTD

TOTAL FIELD MAGNETICS

BARTON H53-9

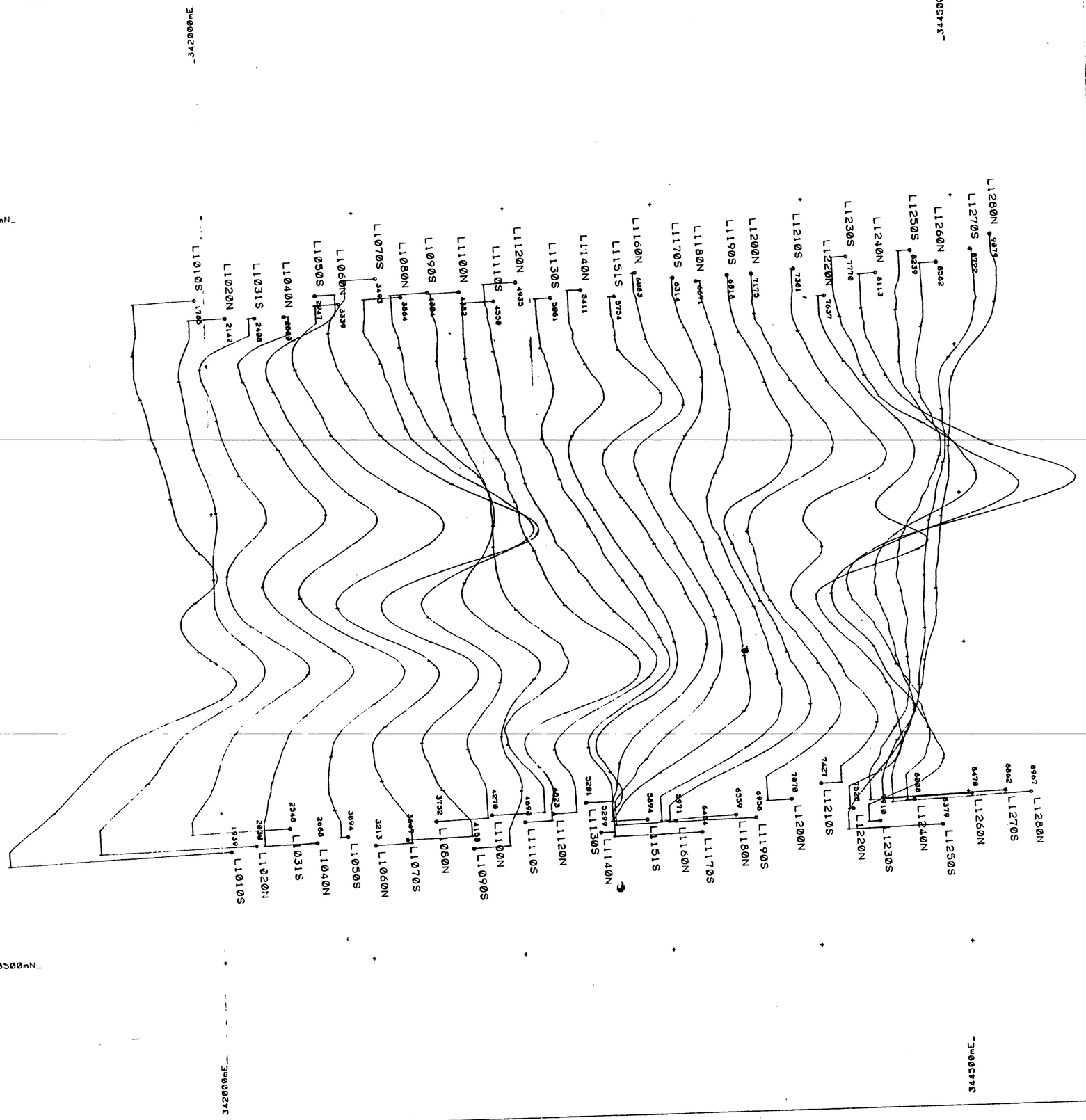
ANOMALY 5536-2/E12

8562-25

Fig 13
SEL: G440b

Sth Bm Hwy 1c 2nd Dec'84

8562-26



N O R T H

STACKED PROFILES(10units/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	24th July 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	VLF and magnetic
Magnetometer type:	Geometrics G813
VLF receiver type:	Herz Totem 1A
VLF transmitter:	NWC (22.5kHz)
Average height:	71 m.
Height of bird:	30 m.
Average speed:	54 knots.

DATA SPECIFICATIONS

Compiled:	August 1984
Sample interval:	13m at 50 knots
Noise estimate:	1.9nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.5 seconds
Position control:	control photography
Regional removed:	planar
Noise filter:	10m continuation

STOCKDALE PROSPECTING LTD

TOTAL FIELD MAGNETICS

BARTON H53-9

ANOMALY 5536-2/W03, W04

8562-26

Fig.14
SEL: G447b
SEL - GH '446 2nd Dec '84

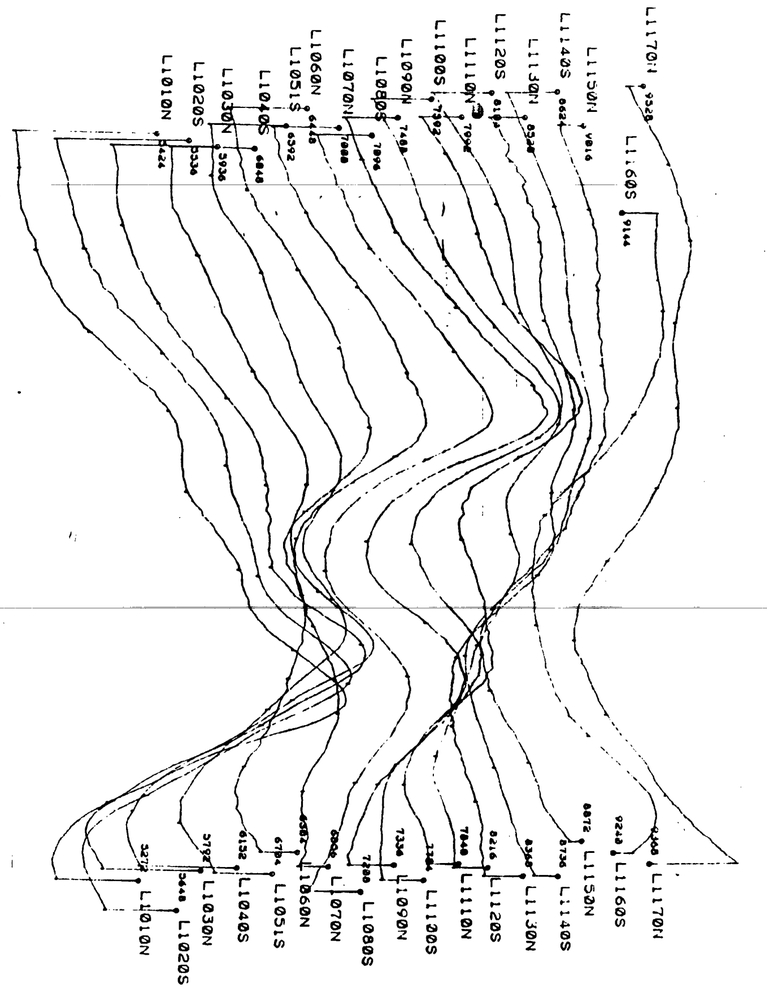
8562-27

290000mE

6560000mN

6557500mN

293000mE



NORTH

STACKED PROFILES(25units/cm)

0m 800m

Scale 1:10000

FLIGHT SPECIFICATIONS

Date flown:	8th August 1984.
Type of aircraft:	Aerospatiale AS350B Ecureuil (Squirrel)
Data collected:	Vlf and magnetic
Magnetometer type:	Geometrics G-13
Vlf receiver type:	Herz Totem 1A
Vlf transmitter:	NAA (24.0kHz)
Average height:	69 m.
Height of clrs:	30 m.
Average speed:	49 knots.

DATA SPECIFICATIONS

Compiled:	September 1984
Sample interval:	19m at 50 knots
Noise estimate:	2.0nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.5 seconds
Position control:	control photograph,
Regional removed:	planar

STOCKDALE PROSPECTING LTD

TOTAL FIELD MAGNETICS

FOWLER H53-13

ANOMALY 5435-1 'W03

8562-27

Fig 21

SEL: G466b

SEL 6th 14 to 2nd Dec/84

8562-28



STACKED PROFILES (25mm = 1 cm)

0m 800m

Scale 1:20000

FLIGHT SPECIFICATIONS

Date flown:	6th August '87
Type of aircraft:	Aerodata Helicopter Sqirrel (Bell 206)
Data collection:	10 and 1 Hz
Aeromagnetic type:	Barringer
Tail fixed & type:	Cesna 206
VLF transmitter:	NAA Cutler, Maine
Average height:	67 m.
Height of line:	30 m.
Average speed:	57 knots

DATA SPECIFICATIONS

Compiled:	September 1987
Sample interval:	10m at 57 knots
Noise estimate:	0.2nT
Mag sensitivity:	0.1nT
Mag cycle rate:	0.5 seconds
Position control:	control photography
Regional removed:	planar
Noise filter:	10m continuation

STRIKLAND PROSPECTING LTD.

TOTAL FIELD MAGNETICS

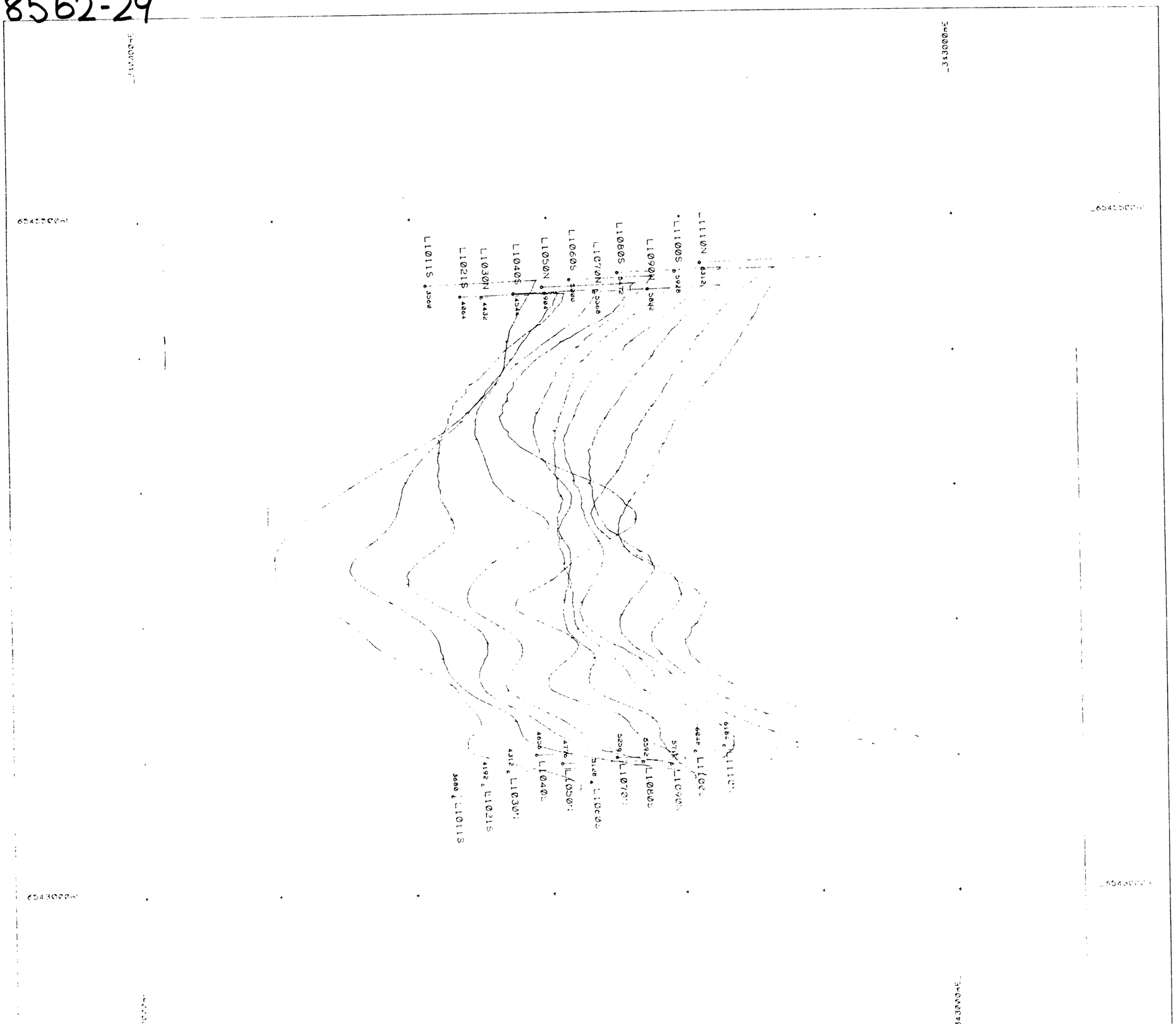
BARTON H53-9

ANOMALY 5436-3/W07

8562-28

Fig 23
SEL : G476b

8562-29



STACKED PROFILES(25units/cm)

FLIGHT SPECIFICATIONS

Date flown	7th August 1984
Type of aircraft	Aerodynamics Gazelle
	Federal Government
Data recorded	Tape
Navigation type	Inertial
VLF receiver type	Sanders Omnipath
VLF transmitters	
Average height	120 m.
Height of sensor	47 m.
Magnetometer	

Compiled	
Contour	
Total area flown	
Mag sensor type	
Mag cycle rate	2 secs
Location control	
Regional ref. field	

TOTAL FIELD MAGNETICS

POWER HS3-13

APOMAY 5535-1 W10

Fig 30

8562-29

7TH QUARTER ENDING 2 MARCH, 1985

Ground Geophysical Location Map

8562-30

BARTON H53-9

TARCOOLA H53-10

E.L. 995

E.L. 994

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

UNION OIL

TRANS AUSTRALIAN RAILWAYS

FOWLER H53-13

CHILDARA H53-14

1. Union Oil area of interest.

● S.P.L. Ground target

S Sirotem survey

0 5 10 15 20 Kms.

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

BARTON - TARCOOLA
GROUND GEOPHYSICAL
LOCATION MAP

Compiled	H.R.R.
Drawn	A.D.S.
Date	APRIL '84
Scale	1:250,000
Revised	
	SEL 2198 D

8562-30

Tth 14 to 2nd March 85

8562-31

BARTON H53-9

TARCOOLA H53-10

E.L. 995

E.L. 994

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

FOWLER H53-13

CHILDARA H53-14

IMWARRA

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

TRANS AUSTRALIAN RAILWAYS

- SPL Ground Target.
- g Ground Magnetic Survey
- e Electrical Resistivity Soundings
- s Sirotem Survey
- l Loam Samples

0 5 10 15 20 Kms.

MAP 2

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA BARTON - TARCOOLA E.L. & SHEET (1:25,000) LOCATIONS WITH GROUND TARGETS	Compiled A.C.F. Drawn A.D.S. Date 5/12/84 Scale 1:250,000 Revised SEL 2198 C

8562-31

6th Nov to Dec '84

EIGHTH QUARTER ENDING 2 JUNE, 1985

Location of Proposed Drill Hoples and Track Construction

8562-32

132° 30'

133°

133° 30'

134°

30°

30° 30'

31°

BARTON H53-9

TARCOOLA H53-10

FOWLER H53-13

CHILDARA H53-14

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

TRANS AUSTRALIAN RAILWAYS

IMMARNA

Existing track

Track to be constructed

(2) Alternative routes under investigation

Proposed drilling locality

Exploration licence boundary

0 5 10 15 20 Kms.

Sth Hq to 7+8 June '85

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

BARTON - TARCOOLA

LOCATION OF PROPOSED DRILL HOLES & TRACK CONSTRUCTION

AS AT 2/6/85

Compiled M.R.R.

Drawn A.D.S.

Date APRIL '84

Scale 1:250,000

Revised

SEL 2538 B

8562-32

ELEVENTH QUARTER ENDING 2 MARCH, 1986

1985 Drilled Anomalies and Track Construction

8562-33

132°

132° 30'

133°

133° 30'

134°

30°

30° 30'

31°

BARTON H53-9

TARCOOLA H53-10

FOWLER H53-13

CHILDARA H53-14

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

E01A

E01

E02

E03

E04

E06

E07

E08

E09

E12

W01

W02

W03

W04

W06

W07

W09

W11

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

TRANS AUSTRALIAN RAILWAYS

Existing track

Constructed track

E01 Drilled locality

Exploration licence boundary

0 5 10 15 20 Kms.

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

BARTON - TARCOOLA

1985 DRILLED ANOMALIES

&TRACK CONSTRUCTION

Compiled	A.C.F
Drawn	A.D.S.
Date	NOV. 85
Scale	1:250,000
Revised	
SEL 2674	

8562-33

Ill. 114 to 2nd para. 36

TWELTH QUARTER ENDING 2 JUNE, 1986

1985 Drilled Anomalies and Track Construction

Summary of Basement Petrology

8562-34

BARTON H53-9

TARCOOLA H53-10

FOWLER H53-13

CHILDARA H53-14

E.L. 1152

E.L. 1149

E.L. 1207
CEC J.V.

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

E01 Gneiss
Altered diorite

E01A Gneissic Mylonite
Altered diorite

E03 Gneiss
Diorite

E04 (Amphibolite)

E06 (Granodiorite)

E07 Altered pyroxenite
Serpentinite

E08 Altered di
Gneiss

E09 Alkali feldspar granite
Leuco-granitoid

E12 Granitoid
Metasediment

E12 Gneiss
Granodiorite

Quartz granitoid E09

W01

W02 (Gneiss)

W03 (Hornblendites)
W02 (Gneiss)

W04
Amphibolite
Altered pyroxenite
Diorite in contact
with amphibolite

W06

W07 Microgranite
Hornblendite
Amphibolite ?

W09 (Granulite)

W11 Quartz granitoid

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

IMARNA

TRANS AUSTRALIAN RAILWAYS

Existing track

Constructed track

E01 Drilled locality

Exploration licence boundary

0 5 10 15 20 Kms

12 & 14 to 2nd June '86

MAP 2

STOCKDALE PROSPECTING LIMITED

BARTON – TARCOOLA

1985 DRILLED ANOMALIES
TRACK CONSTRUCTION
SUMMARY OF
BASEMENT PETROLOGY

Compiled	A.C.F
Drawn	A.D.S
Date	JUNE '86
Scale	1:250,000
Revised	
	SEL 2674

8562-34

THIRTEENTH QUARTER ENDING 2 SEPTEMBER, 1986

Anomalies Surveyed June-September, 1986

8562-35

BARTON H53-9

TARCOOLA H53-10

FOWLER H53-13

CHILDARA H53-14

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

IMMARNA

TRANS AUSTRALIAN RAILWAYS

W15 O Anomaly number & location

0 5 10 15 20 Kms.

MAP 2

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA BARTON - TARCOOLA E.L. & SHEET (1:25,000) LOCATIONS ANOMALIES SURVEYED JUNE - SEPT. 1986	Compiled A.C.F. Drawn S.P.W. Date 9/86 Scale 1:250,000 Revised SEL 2198 E

8562-35

FOURTEENTH and FIFTEENTH QUARTER ENDING 2 MARCH, 1987

Locations and Anomalies Surveyed December, 1986 - February, 1987

Locations and Anomalies Surveyed September - December, 1986

Locations and Anomalies Surveyed June - September, 1986

8562-36

132° 132° 30' 133° 133° 30' 134°

30°

BARTON H53-9

TARCOOLA H53-10

30° 30'

31°

FOWLER H53-13

CHILDARA H53-14

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

W11 W03 W10 E09 E03

E11 E10 W14 W02 E08 E09 W04

E01

W14 E02 W13 W12 E11 E18 E19

W12 E13 W11 E12 E06

IMMARNA

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

TRANS AUSTRALIAN RAILWAYS

E11 DEC.– FEB.'87 SURVEYED ANOMALIES

0 5 10 15 20 Kms.

15th '14 to 2nd March '87 MAP 2.

STOCKDALE PROSPECTING LIMITED	
SOUTH AUSTRALIA BARTON / TARCOOLA EL & SHEET (1:25,000) LOCATIONS AND ANOMALIES SURVEYED DEC.1986-FEB.1987	Compiled H.R.R. Drawn A.D.S. Date APRIL '84 Scale 1:250,000 Revised 25-3-87 SEL 2198 G

8562-36

8562-37

132° 30' 133° 133° 30' 134°

30°

BARTON H53-9

TARCOOLA H53-10

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

W08 E07 E08 W03 W09 W08 W09 W19 W08 W17 E06 E15 E14 W08 E15 W11 E10 E07 E04 E02 W10 W11 E01 E03 E05 W03 W08

BARTON SIDING

TRANS AUSTRALIAN RAILWAYS

MOUNT CHRISTIE SIDING

WYNBRING

IMMARNA

30° 30'

31°

FOWLER H53-13

CHILDARA H53-14

E01 O Anomaly number & Location

0 5 10 15 20 Kms.

MAP 3

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
BARTON - TARCOOLA
E.L. & SHEET (1:25,000)
LOCATIONS
ANOMALIES SURVEYED
SEPT - DEC 1986

Compiled	M.R.R.
Drawn	A.D.S.
Date	DEC '86
Scale	1:250,000
Revised	
	SEL 219 P

8562-37

8562-38

132° 132° 30' 133° 133° 30' 134°

30° 30° 30' 31°

BARTON H53-9

TARCOOLA H53-10

FOWLER H53-13

CHILDARA H53-14

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

E02 E03 E09 W06 W09 E03 E01 E02 W12 W13 W01 E06 W03 W04 E07 E12 E01 E02 W06 W03 W04 E01 E03 W08 E07 W15 W16 OC DO

IMMARNA

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

TRANS AUSTRALIAN RAILWAYS

W15 Anomaly number & location

0 5 10 15 20 Kms.

MAP 8

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA
BARTON - TARCOOLA
E.L. & SHEET (1:25,000)
LOCATIONS
ANOMALIES SURVEYED
JUNE - SEPT. 1986

Compiled
Drawn
Date 9/84
Scale 1:250,000
Revised
SEL 2168 E

8562-38

15th Rpt to Dec March '87

SIXTEENTH QUARTER TO 2 JUNE, 1987

Anomalies Surveyed March - June, 1987

8562-39

132°

132° 30'

133°

133° 30'

134°

30°

30° 30'

31°

BARTON H53-9

TARCOOLA H53-10

FOWLER H53-13

CHILDARA H53-14

5337-4/W

5337-1/W

5337-1/E

5437-4/W

5437-4/E

5437-1/W

5437-1/E

5537-4/W

5537-4/E

5337-3/W

5337-3/E

5337-2/W

5337-2/E

5437-3/W

5437-3/E

5437-2/W

5437-2/E

5537-3/W

5537-3/E

5537-2/W

5537-2/E

5336-4/W

5336-4/E

5336-1/W

5336-1/E

5436-4/W

5436-4/E

5436-1/W

5436-1/E

5536-4/W

5536-4/E

5536-1/W

5536-1/E

5636-4/W

5636-4/E

5636-1/W

5636-1/E

5336-3/W

5336-3/E

5336-2/W

5336-2/E

5436-3/W

5436-3/E

5436-2/W

5436-2/E

5536-3/W

5536-3/E

5536-2/W

5536-2/E

5636-3/W

5636-3/E

5636-2/W

5636-2/E

5335-4/W

5335-4/E

5335-1/W

5335-1/E

5635-4/W

5635-4/E

E.L. 1152

E.L. 1207
CEC J.V.

E.L. 1149

E.L. 1148

E.L. 1153

E.L. 1151

E.L. 1147

IMMANNA

BARTON SIDING

MOUNT CHRISTIE SIDING

WYNBRING

TRANS AUSTRALIAN RAILWAYS

W01
W02
W05
W06
W07
W10
W15
W16
W18
W20

E01
E04
E05
E06
E07
E08
E09
E10
E16
E17
E18

0 5 10 15 20 Kms.

MAP 2

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

BARTON - TARCOOLA

ANOMALIES SURVEYED
MARCH-JUNE 1987

Compiled H.R.R.
Drawn B.A.H.
Date JULY '87
Scale 1:250,000
Revised
SEL 3018

8562-39

BASED ON SEL. 2198

16th May to 2nd June '87

EIGHTEENTH QUARTER ENDING 2 DECEMBER, 1987

Aeromagnetic Contour Map 1:100,000

Grid Location 1:100,000

Station Posting Map -

Barton	5436	No. SAa	4784
Midgerie	5435	No. SAa	4785
Taloreh	5536	No. SAa	4786
Midgerie	5435	No. SAa	4787
Taloreh	5536	No. SAa	4788
Barton	5436	No. SAa	4789
Midgerie	5435	No. SAa	4790
Taloreh	5536	No. SAa	4791
Barton	5436	No. SAa	4792
Midgerie	5435	No. SAa	4793
Taloreh	5536	No. SAa	4744
Barton	5436	No. SAa	4795

8562 - 41

EL 1150

EL 1151

EL 1146

132°30'00"
132°45'00"
133°00'00"
133°15'00"
133°30'00"
30°35'00"
30°45'00"
31°00'00"
31°15'00"

8562 -41

CRA EXPLORATION PTY. LIMITED.

BARTON SOUTH J/V
E.L's 1146, 1150, 1151

AEROMAGNETIC CONTOURS

Ref : BARTON SH 53-9 , FOWLER SH 53-13
Scale 1 : 100 000
Author G.L.M.
Report No. 14839

8562-42

E.L. 1150

E.L. 1151

BOUNDARY OF WOOMERA PROHIBITED AREA

Old Bore (P.D)

BARTON

TRANS AUSTRALIAN RAILWAY

Bore

Somphire 226

WILD 234

Mount Christie

(Gauge 1.44m)

PICNIC 213

Old Bore (P.D)

Dowling Rock (L.D)

RHS (L.D)

RH (L.D)

White Gin RH

BAR - 1

6598000mN

6592000mN

BAR - 3

6578000mN

6573000mN

BAR - 4

6578000mN

6573000mN

KB47 118

TRACKS

Position Accurate

Position Approximate

HEAD STATION, OUT STATION, HUT

HIGHWAY OR MAIN ROAD

SECONDARY ROAD

TRACK

TRACK ALONG BOUNDARY FENCE

RAILWAY AND STATION

RAILWAY AND SIDING

MAJOR ROAD BRIDGE, RAILWAY BRIDGE

BOUNDARY FENCE

INTERNAL FENCE

VERMIN PROOF, DOG FENCE — V.P.F. D.F.

POWER TRANSMISSION LINE

MINERAL FEATURES

MINOR MINERAL OCCURRENCE, PROSPECT — MU

MINE, ALLUVIAL WORKINGS

OPEN CUT, QUARRY

YARD

TRIG. STATION, ASTRONOMICAL STATION

IDENTIFIED HILL OR MOUNTAIN, CAIRN, PILE

SPOT ELEVATION — 73

CONTOUR, DEPRESSION CONTOURS — 100 200

ESCARPMENT

EMBANKMENT

SAND DUNE

DRAINAGE

RIVER, CREEKS

BRAIDED STREAM WITH FLOOD CHANNEL

FLOOD PLAIN BOUNDARY

CLAYPAN, SALTPAN (PLAYA LAKE), SWAMP

BORE, WELL

TANK — T

ARTESIAN BORE

SPRING

WATERHOLE

DAM

1:100 000 SHEET INDEX

IMMARNA | LAKE BRING | MOJELLA

BARTON

PIDINGA | BARTON | TALOREH

DEPARTMENT OF MINES AND ENERGY

SCALE 1:100 000

KILOMETRES 2 1 0 2 4 6 8 10 12 KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION.
HORIZONTAL DATUM: AUSTRALIAN GEODETIC GRID 1966.
GRID LINES ARE 10 000-METRE INTERVALS OF THE AUSTRALIAN MAP GRID

LOCALITY PLAN



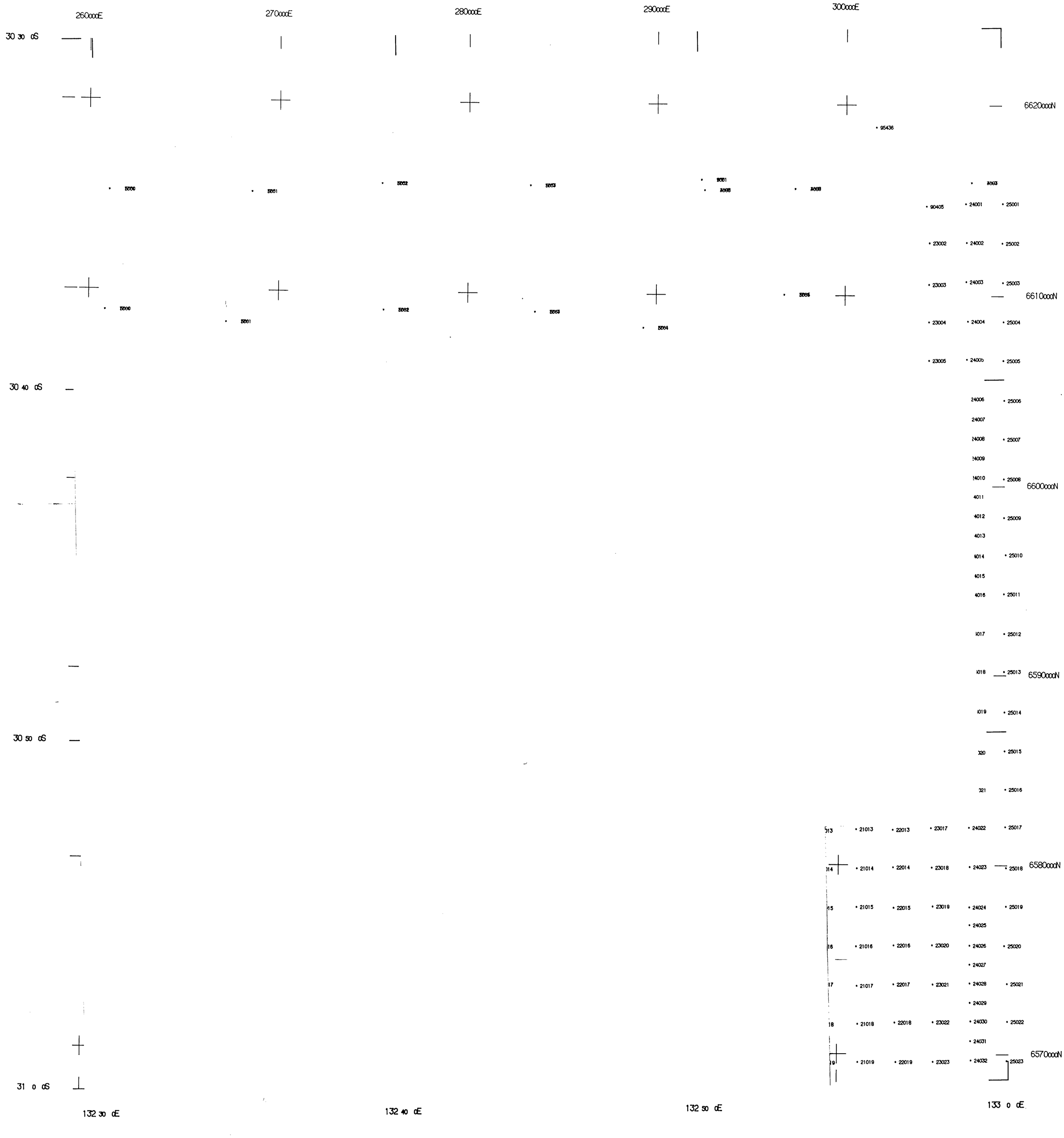
CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
E.L. 1150 and E.L. 1151
GRID LOCATIONS
(NORTH SHEET)

REFERENCE	BARTON	SH 53-9	
SCALE	1:100000		
AUTHOR	S.L.M.	REPORT	15218
DATE	June '88	PLAN NO	SAD 4942

8562-42

8562-43



GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL : ESTIMATED	Ferranti Inertial Land Surveyor II
HORIZONTAL ERROR : ESTIMATED	+/- 1.0 metres
VERTICAL ERROR : ESTIMATED OBSERVED	+/- 0.5 metres
GRAVITY ERROR :	+/- 0.02 mGals

STATION POSTING MAP

Sheet no. Barton 5436
Grid notation refers to Australian Map Grid Zone 53
Reference Barton SH53-9
Barton 5436
Station number and location .2504
Geoterrex Gravity Station Position .
BMR Gravity Station Position x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW. 15th Nov to 2nd Dec '87
Processed using the GEONET time sharing system

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
STATION POSTING MAP
BARTON 5436

DATE:	9-NOV-87	PLAN NO. SAa4784	REPORT NO. 14839

8562-43

8562-44

31 0 0S

6560000N

6550000N

31 10 0S

6540000N

31 20 0S

6530000N

6520000N

31 30 0S

132 30 0E

132 40 0E

132 50 0E

133 0 0E

GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

STATION POSTING MAP

Sheet no.	Midgerie 5435
Grid notation refers to Australian Map Grid Zone 53	
Reference	Fowler SH53-13
	Midgerie 5435
Station number and location	.2504
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW. 18th 14 to 2.a Dec '87
Processed using the GEONET time sharing system

8562-44

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
STATION POSTING MAP
MIDGERIE 5435

DATE:	9-NOV-87	PLAN NO. SAa 4785	REPORT NO. 14839

8562-45

310000E 320000E 330000E 340000E 350000E

6610000N 6600000N 6590000N 6580000N 6570000N

30 40 0S 30 50 0S 31 0 0S

133 0 0E 133 10 0E 133 20 0E 133 30 0E

GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

STATION POSTING MAP

Sheet no. Taloreh 5536
Grid notation refers to Australian Map Grid Zone 53
Reference Barton SH53-9
Taloreh 5536
Station number and location .2504
Geoterrex Gravity Station Position .
BMR Gravity Station Position x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW. 18 th 4 to 2nd Dec 87
Processed using the GEONET time sharing system

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
STATION POSTING MAP
TALOREH 5536

DATE:	9-NOV-87	PLAN NO. SAa 4786	REPORT NO. 14839

8562-45

8562-46

270000E 280000E 290000E 300000E

31 0 0S

6560000N



31 10 0S

6550000N

6540000N

31 20 0S

6530000N

6520000N

31 30 0S

132 30 0E 132 40 0E 132 50 0E 133 0 0E

4.18 2.13 1.02 -0.48 -2.54

-5.80 -8.69 -12.66 -17.14 -22.64

-15.53 -19.57 -20.29 -16.01 -21.68 -29.60

-17.75 -18.07 -25.28 -22.25 -23.42 -32.43

GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

FREE AIR GRAVITY CONTOURS

Sheet no.	Midgerie 5435
Grid notation refers to Australian Map Grid Zone 53	
Reference	Fowler SH53-13 Midgerie 5435
Gravity data corrected for	Latitude using 1967 spheroid Free Air Elevation Earth Tides
Grid mesh size	400 x 400 metres
Grid filter	Polynomial, radius 600 metres
Contour Interval	1.5 and 25 milligals
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW.
Processed using the GEONET time sharing system 18th May to 2nd June 87

8562-46

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
FREE AIR GRAVITY CONTOURS
MIDGERIE 5435

DATE:	9-NOV-87	PLAN NO. SAa 4787	REPORT NO. 14839

8562-47

310000E 320000E 330000E 340000E 350000E

30 40 0S

30 50 0S

31 0 0S

6610000N 6600000N 6590000N 6580000N 6570000N

133 0 0E 133 10 0E 133 20 0E 133 30 0E

GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

FREE AIR GRAVITY CONTOURS

Sheet no.	Taloreh 5536
Grid notation refers to Australian Map Grid Zone 53	
Reference	Barton SH53-9
	Taloreh 5536
Gravity data corrected for	
	Latitude using 1967 spheroid
	Free Air Elevation
	Earth Tides
Grid mesh size	400 x 400 metres
Grid filter	Polynomial, radius 600 metres
Contour Interval	1.5 and 25 milligals
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW.
Processed using the GEONET time sharing system

18 th 114 to 2nd Dec '87

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
FREE AIR GRAVITY CONTOURS
TALOREH 5536

DATE:	9-NOV-87	PLAN NO. SAa 4788	REPORT NO. 14839

8562-47

8562-48

260000E 270000E 280000E 290000E 300000E

30 30 0S

6620000N

25.71 21.65 20.10 16.52 12.32 9.52 11.13 7.53

19.20

6610000N

26.19 24.75 25.20 13.68 16.10

30 40 0S

6600000N

6590000N

30 50 0S

6580000N

6570000N

31 0 0S

132 30 0E 132 40 0E 132 50 0E 133 0 0E

GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

FREE AIR GRAVITY CONTOURS

Sheet no.	Barton 5436
Grid notation refers to Australian Map Grid Zone 53	
Reference	Barton SH53-9
	Barton 5436
Gravity data corrected for	
	Latitude using 1967 spheroid
	Free Air Elevation
	Earth Tides
Grid mesh size	400 x 400 metres
Grid filter	Polynomial, radius 600 metres
Contour Interval	1,5 and 25 milligals
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW.
Processed using the GEONET time sharing system

19th May to 2nd Dec'87

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
FREE AIR GRAVITY CONTOURS
BARTON 5436

DATE:	9-NOV-87	PLAN NO. SAg4789	REPORT NO. 14839

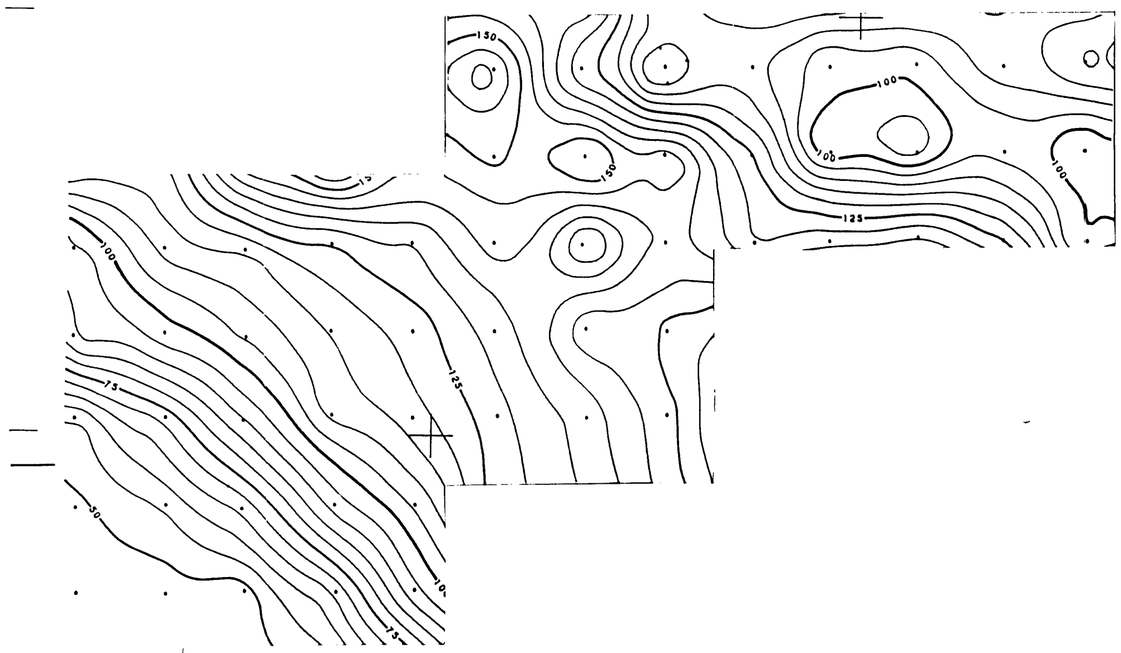
8562-48

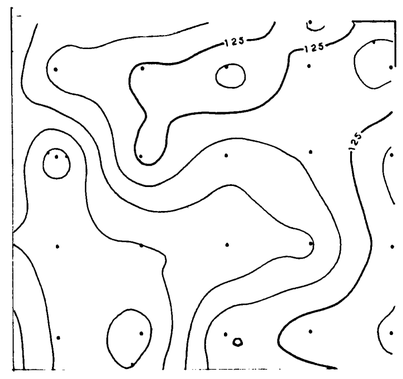
8562-49

270000E 280000E 290000E 300000E

31 0 0S

560000N





31 10 0S

550000N

6540000N

* 45.03 * 65.53 * 122.93 * 139.52 * 146.49

31 20 0S

* 45.50 * 34.34 * 62.84 * 119.66 * 129.11 * 109.76

6530000N

* 126.50

* 42.97 * 33.46 * 45.88 * 113.04 * 107.20

6520000N

* 55.87 * 34.84 * 53.78 * 110.54 * 144.63 * 113.43

31 30 0S

132 30 0E 132 40 0E 132 50 0E 133 0 0E

GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

ELEVATION CONTOURS

Sheet no.	Midgerie 5435
Grid notation refers to Australian Map Grid Zone 53	
Reference	Fowler SH53-13 Midgerie 5435
Grid mesh size	400 x 400 metres
Grid filter	Polynomial, radius 600 metres
Contour Interval	5,25 and 100 metres
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW.
Processed using the GEONET time sharing system

18 Nov'14 to 20 Dec'87

N

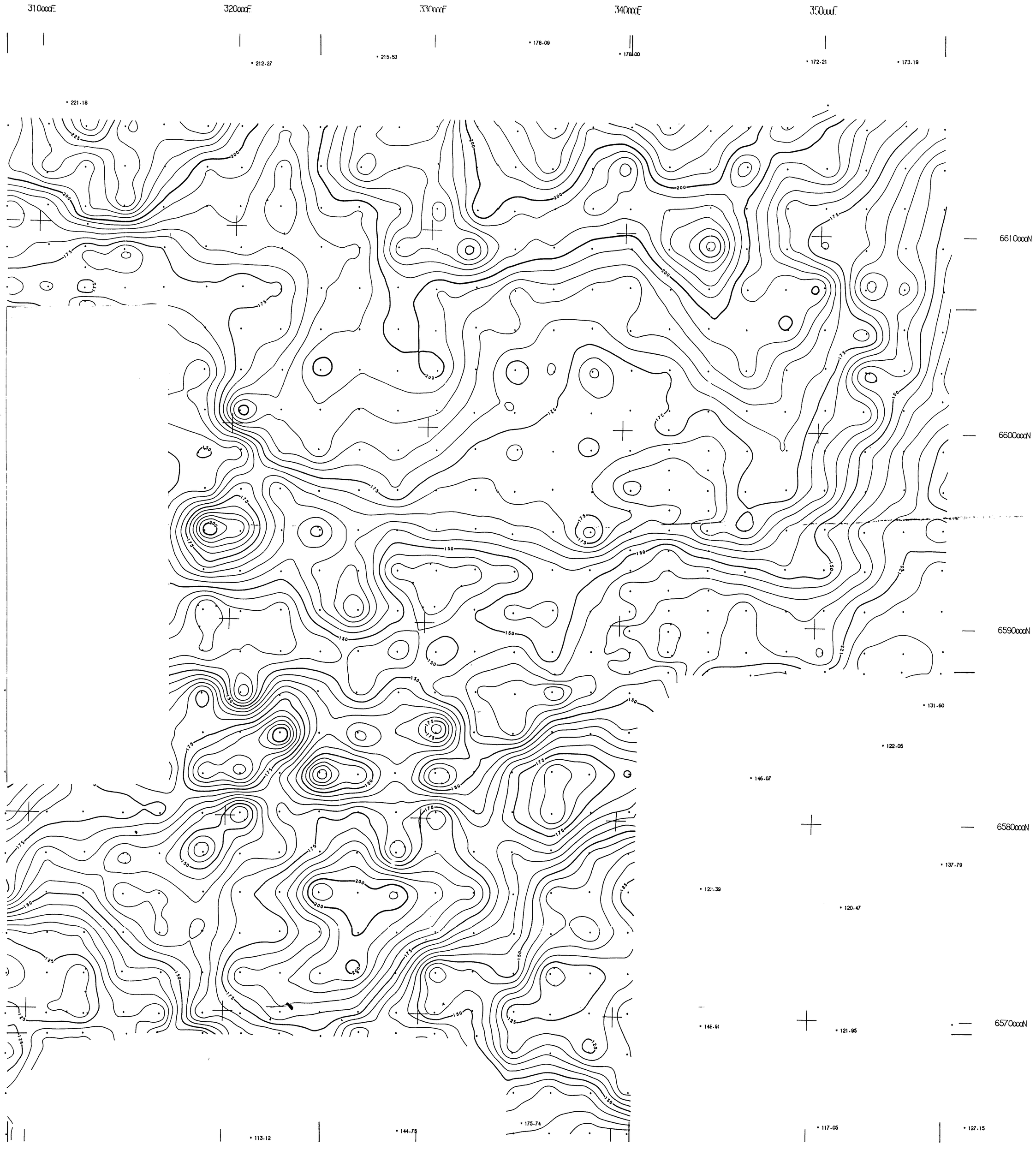
8562-49

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
ELEVATION CONTOURS
MIDGERIE 5435

DATE:	9-NOV-87	PLAN NO. SAa4790	REPORT NO. 14839

8562-50



GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

ELEVATION CONTOURS

Sheet no.	Taloreh 5536
Grid notation refers to Australian Map Grid Zone 53	
Reference	Barton SH53-9
	Taloreh 5536
Grid mesh size	400 x 400 metres
Grid filter	Polynomial, radius 600 metres
Contour Interval	5,25 and 100 metres
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW.
Processed using the GEONET time sharing system

13th '14 to 2nd Dec '87

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
ELEVATION CONTOURS
TALOREH 5536

DATE:	9-NOV-87	PLAN NO. SAa 4791	REPORT NO. 14839

8562-50

8562-51

260000E 270000E 280000E 290000E 300000E

30 30 0S

6620000N

204.56 159.84 145.18 160.98 194.69 186.45 209.73 192.63

173.30 144.94 177.50 150.40 149.53 185.20

6610000N

30 40 0S

6600000N

6590000N

30 50 0S

6580000N

6570000N

31 0 0S

132 30 0E 132 40 0E 132 50 0E 133 0 0E

GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

ELEVATION CONTOURS

Sheet no.	Barton 5436
Grid notation refers to	Australian Map Grid Zone 53
Reference	Barton SH53-9
	Barton 5436
Grid mesh size	400 x 400 metres
Grid filter	Polynomial, radius 600 metres
Contour Interval	5,25 and 100 metres
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW.
Processed using the GEONET time sharing system

18th Aug to 2nd Dec '87

8562-51

CRA EXPLORATION PTY LIMITED

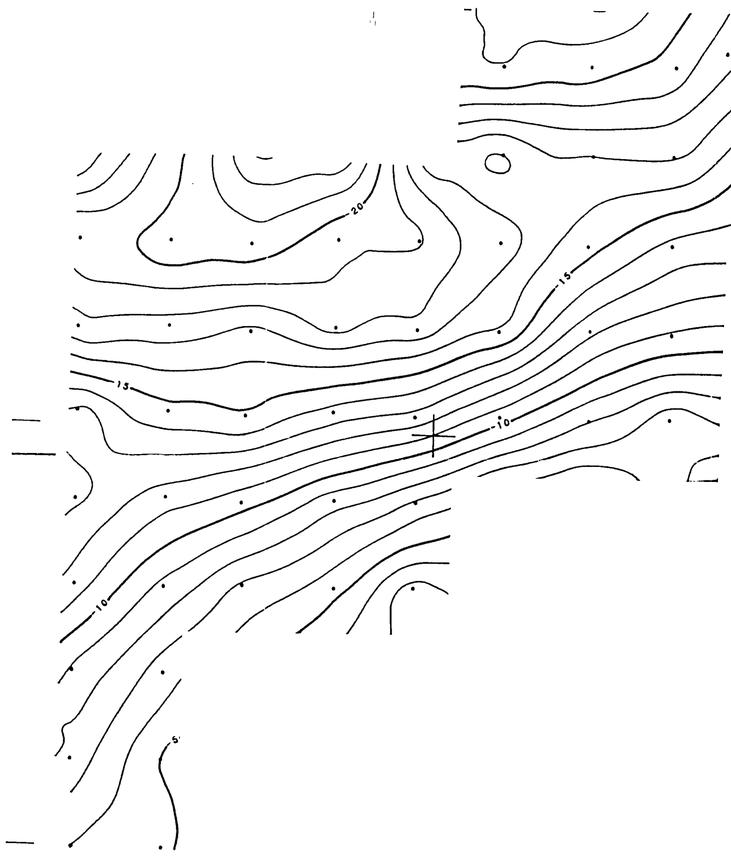
BARTON SOUTH J/V
ELEVATION CONTOURS
BARTON 5436

DATE:	9-NOV-87	PLAN NO. SAa4792	REPORT NO. 14839

8562-52

270000E 280000E 290000E 300000E

31 0 0S



31 10 0S

31 20 0S

31 30 0S

132 30 0E 132 40 0E 132 50 0E 133 0 0E

6560000N 6550000N 6540000N 6530000N 6520000N

-0.36 -4.46 -11.34 -14.51 -17.26

-10.39 -12.14 -20.65 -24.69 -30.13 -33.67

-19.84 -22.93 -24.90 -27.38 -34.40 -40.39

-23.37 -21.59 -30.69 -33.36 -37.96 -43.83

GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

BOUGUER GRAVITY CONTOURS

Sheet no.	Midgerie 5435
Grid notation refers to Australian Map Grid Zone 53	
Reference	Fowler SH53-13
	Midgerie 5435
Gravity data corrected for	
	Latitude using 1967 spheroid
	Free Air Elevation
	Earth Tides
	Bouguer density 2.4 g/cc
Grid mesh size	400 x 400 metres
Grid filter	Polynomial, radius 600 metres
Contour Interval	1.5 and 25 milligals
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW.
Processed using the GEONET time sharing system 18th Nov to 2nd Dec '87

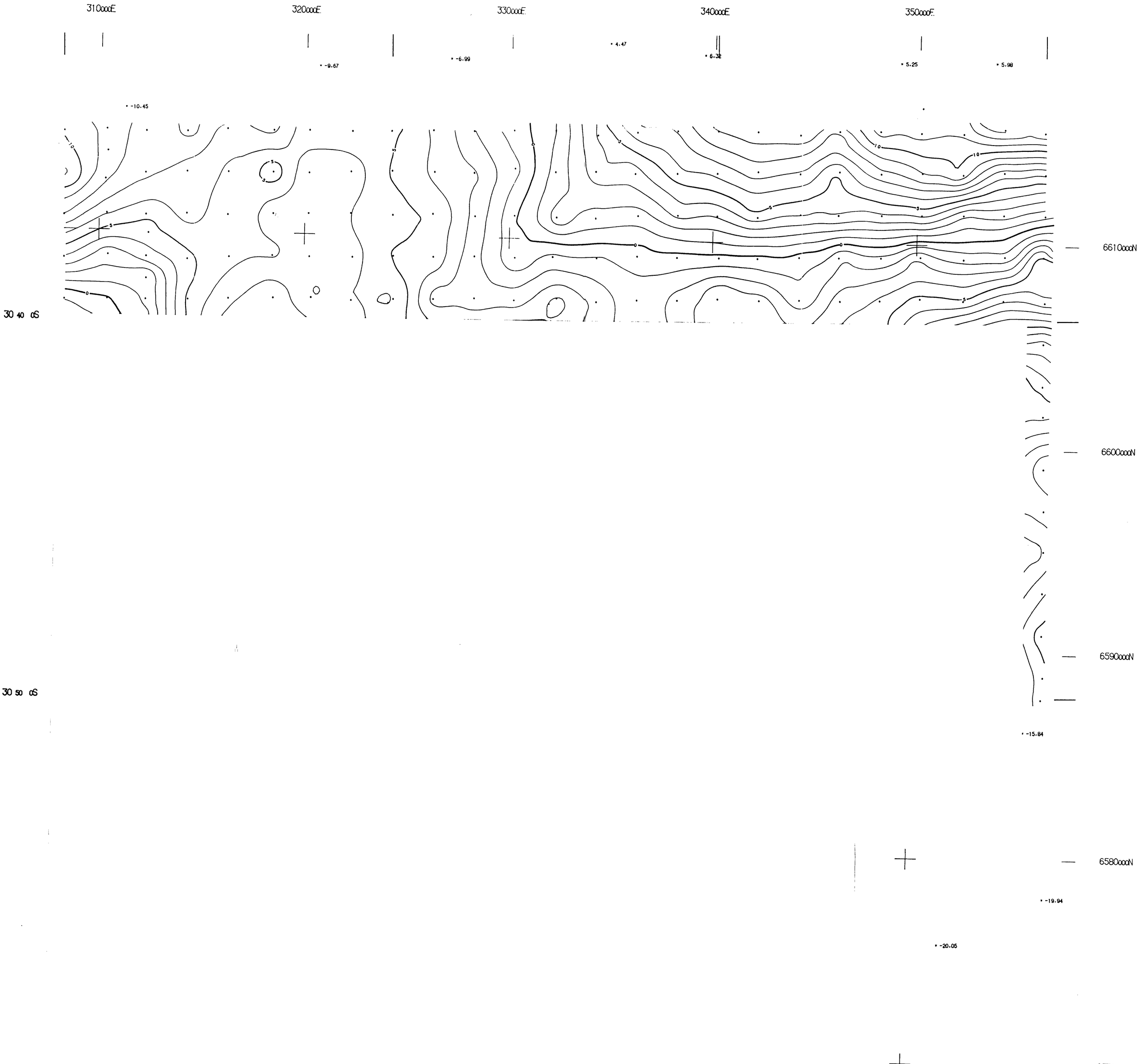
8562-52

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
BOUGUER GRAVITY CONTOURS
MIDGERIE 5435

DATE:	9-NOV-87	PLAN NO. SAa4793	REPORT NO. 14839

8562-53



GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL : ESTIMATED	Ferranti Inertial Land Surveyor II
HORIZONTAL ERROR : ESTIMATED	+/- 1.0 metres
VERTICAL ERROR : ESTIMATED OBSERVED	+/- 0.5 metres
GRAVITY ERROR :	+/- 0.02 mGals

BOUGUER GRAVITY CONTOURS

Sheet no.	Taloreh 5536
Grid notation refers to Australian Map Grid Zone 53	
Reference	Barton SH53-9 Taloreh 5536
Gravity data corrected for	Latitude using 1967 spheroid Free Air Elevation Earth Tides Bouguer density 2.4 g/cc
Grid mesh size	400 x 400 metres
Grid filter	Polynomial, radius 600 metres
Contour Interval	1.5 and 25 milligals
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	x

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW. 15th to 2nd Dec '87
Processed using the GEONET time sharing system

8562-53

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
BOUGUER GRAVITY CONTOURS
TALOREH 5536

DATE:	9-NOV-87	PLAN NO. SAa 4794	REPORT NO. 14839

8562-54



GRAVITY SURVEY SPECIFICATIONS

GRAVITY METER :	LaCoste and Romberg S/n G-315
SURVEY VEHICLE :	Bell Jetranger helicopter
HORIZONTAL AND VERTICAL CONTROL :	Ferranti Inertial Land Surveyor II
ESTIMATED HORIZONTAL ERROR :	+/- 1.0 metres
ESTIMATED VERTICAL ERROR :	+/- 0.5 metres
ESTIMATED OBSERVED GRAVITY ERROR :	+/- 0.02 mGals

BOUGUER GRAVITY CONTOURS

Sheet no.	Barton 5436
Grid notation refers to Australian Map Grid Zone 53	
Reference	Barton SH53-9
	Barton 5436
Gravity data corrected for	
	Latitude using 1967 spheroid
	Free Air Elevation
	Earth Tides
	Bouguer density 2.4 g/cc
Grid mesh size	400 x 400 metres
Grid filter	Polynomial, radius 600 metres
Contour Interval	1.5 and 25 milligals
Geoterrex Gravity Station Position	.
BMR Gravity Station Position	+

0 1 2 3 4 5 6 7 8 9 10 11 12 Km

SCALE 1:100000

JOB NO : 4-961
Surveyed by GEOTERREX PTY LTD : OCTOBER 1987
Compiled by Geoterrex Pty Ltd., Sydney, NSW.
Processed using the GEONET time sharing system

18th Nov to 2nd Dec '87

8562-54

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V
BOUGUER GRAVITY CONTOURS
BARTON 5436

DATE:	9-NOV-87	PLAN NO. SAa 4795	REPORT NO. 14839

ELs 1146, 1150, 1151

NINETEENTH QUARTER ENDING 2 MARCH, 1988

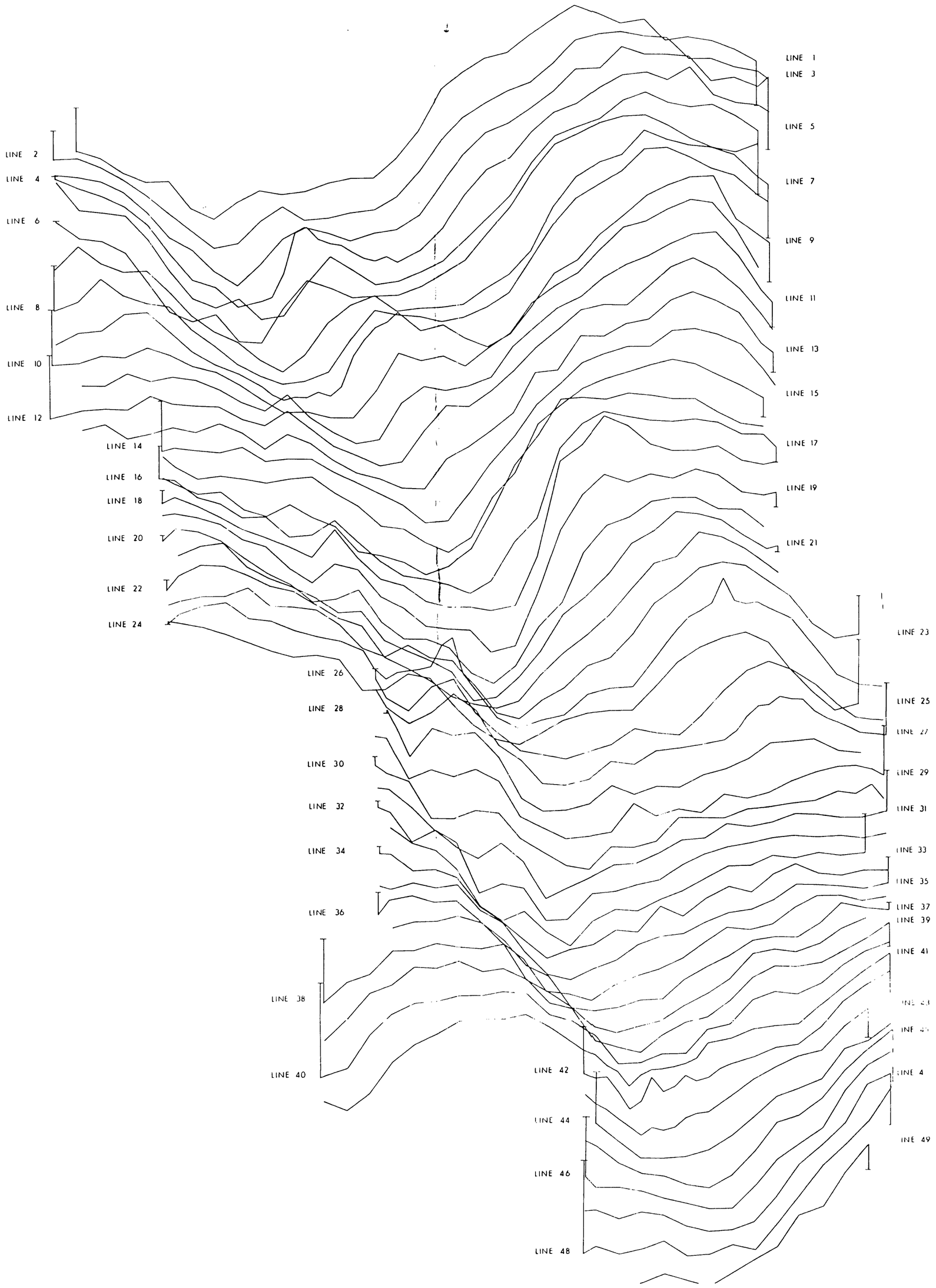
Bouguer Gravity Profiles SAa 4892

Bouguer Gravity Contours SAa 4896

8562-55

AMG NORTH (m)

6540000 6550000 6560000 6570000 6580000 6590000 6600000 6610000 6620000



Vertical Scale - 1cm = 5mgal

0 0 mgal

Actual Line and Station Locations on Plans SAa 4784
SAa 4785
SAa 4786

CRA EXPLORATION PTY LTD	
BARTON SOUTH J/V	
ELs 1146, 1150, 1151	
BOUGUER GRAVITY PROFILES	
REFERENCE BARTON SH 53-9, FOWLER SH 53-13	
SCALE 1:250,000	DRAWN GLM
AUTHOR GLM	REPORT 15111
DATE 17 MAR 88	PLAN No SAa 4892

8562-55

19th Hy to 2nd March'88

8562-56

BARTON SOUTH J/V : INS/GRAVITY SURVEY

AMG NORTH (m)

AMG EAST (m)

BAR-1 to 10 *Prospect Locations*

Km 5 0 5 10 15 20 25 Km

19th 11th to 2nd March '88

CRA EXPLORATION PTY LIMITED

BARTON SOUTH J/V - S.A.

BOUGUER GRAVITY CONTOURS AND PROSPECT LOCATION PLAN

Ref.: BARTON SH 53-9, FOWLER SH 53-13	
Scale 1 : 250000	Drawn G.L.M.
Author G.L.M	Report No 15111
Date Mar. '88	Plan No SAa 4896

8562-56

ELs 1522, 1523 and 1524

1ST QUARTER ENDING 28 DECEMBER, 1988

BAR-1	Drill logs; Geochemistry
BAR-3	" " ; "
BAR-4	" " ; "
BAR-1	Magnetic and Gravity Profiles 1:25,000
BAR-3	" " "
BAR-4	" " "
BAR-1	Drill hole Logs - PD88MC1
BAR-3	" " " - PD88MC4
BAR-4	" " " - PD88MC5

CRA EXPLORATION PTY LIMITED

PERCUSSION DRILL LOG

BAR-1 PROSPECT

PROJECT MT CHRISTIE E.L. 1524

CO-ORDINATES 342600mE 6593800mN

RL COLLAR 142m ASL

AZIMUTH GRID NORTH

INCLINATION 90°

DRILLERS DRILLCORP

DRILL TYPE BOURNE 1000

COMMENCED 23/09/88

COMPLETED 25/09/88

DEPTH 151m

CASING LEFT 8m PVC

HOLE No. PD88MC1

DPO Nos. 37439, 37543

CRA EXPLORATION PTY. LIMITED

GEOCHEMICAL RESULTS

SAMPLE Nos 1624701 - 1624717

DEPTH FROM 0 TO 38 m

DPO Nos 37439, 37543

LABS ANALABS PONTIFEX & ASSOC.

Issued 14 to 28 Dec '88 (1522-1524)

PROJECT BAR-1 PROSPECT MT CHRISTIE E.L. 1524

HOLE No. PD 88 MC 1

8562-57

DEPTH From	DEPTH To	CORE REC.	CORE SIZE	LOG	GEOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	REC. (m)	GEOPHYSICS MAG SUS x10⁻³ SI	GEOPHYSICS SCINT CPS	Au	Ag	Pb	Zn	Cu	Ni	Co	Cr	Mn
												FIRE ASSAY	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS
												5ppb	0.5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm
0	5.2				Orange-brown unconsolidated sand	1624701	0	5.2		15	10	5	0.5	<5	10	10	15	5	475	60
5.2	8				As above - minor Fe-rich soil horizon	1624702	5.2	8		5	10	<5	0.5	5	10	10	10	5	360	50
8	10				Limonitic clays, white kaolinitic clays and minor weathered basement? Some minor red-brown ferruginous clay chips also. Contamination by PVC chips from casing.	1624703	8	10		25	12	5	0.5	105	55	20	<5	5	60	70
10	12				80% Ferricrete - red-brown to purple, very fine grained iron/clay matrix. 20% white kaolinitic clay. Trace of yellow limonitic claystone.	1624704	10	12		30	14	<5	0.5	25	25	15	<5	<5	100	90
12	14				'As above' tending to red-orange ferricrete	1624705	12	14		25	14	5	<0.5	15	20	15	<5	<5	70	170
14	16				50% ferricrete, 50% kaolinitic claystone	1624706	14	16		25	14	<5	<0.5	15	20	10	<5	<5	15	100
16	18				80% kaolinised bedrock? 20% ferruginous powder	1624707	16	18		25	14	<5	<0.5	15	30	5	10	5	5	90
18	20				90% kaolinised medium grained bedrock? - 10% of ferruginous material	1624708	18	20		25	14	<5	<0.5	25	65	5	45	5	5	110
20	22				'As above'	1624709	20	22		25	14	<5	<0.5	30	40	5	40	10	5	75
22	24				80% ferruginised, weathered bedrock with 20% kaolinised chips	1624710	22	24		20	14	25	<0.5	15	20	5	15	5	10	40
24	26				Vari-coloured weathered bedrock. From yellow to white to orange to brown layered bedrock. Some chips show porphyritic character. Possible banded gneiss?	1624711	24	26		25	13	<5	0.5	20	15	10	5	<5	5	35
26	28				'As above' - with purple colour also observed	1624712	26	28		200	14	<5	<0.5	15	20	15	10	10	5	55
28	30				Fresh quartz-feldspar rock chips in varicoloured clay rich matrix 'as above'.	1624713	28	30		250	14	<5	<05	10	90	55	30	55	5	140
30	32				'As above' - slightly fresher	1624714	30	32		450	14	15	<0.5	10	140	45	40	55	5	280
32	34				Fresher bedrock - feldspar rich rock with mafic minerals. Possible svenite? or svenite gneiss	1624715	32	34		550	13	10	0.5	10	270	50	55	140	5	620
34	36				'As above'. Panned concentrate shows good tail of black very fine grained magnetite	1624716	34	36		900	12	<5	0.5	5	220	35	40	75	5	725
36	38				Fresher pink feldspar-mica-epidote?-chlorite-quartz rock. Increasing magnetite content.	1624717	36	38		1000	12	<5	<0.5	5	165	35	40	70	5	735

SUMMARY :

LOGGED BY JF MARINELLI

DATE 23/09/88

SHEET 1 OF 5

Sheet 1 of 5

SAo 4187a

Plan No SAo 4187b

CRA EXPLORATION PTY. LIMITED

PERCUSSION DRILL LOG

PROJECT BAR-1 PROSPECT MT CHRISTIE E.L. 1524

CO-ORDINATES 342600mE 6593800mN

RL COLLAR 142m ASL

AZIMUTH GRID NORTH

INCLINATION 90°

DRILLERS DRILLCORP

DRILL TYPE BOURNE 1000

COMMENCED 23/09/88

COMPLETED 25/09/88

DEPTH 151m

CASING LEFT 8m PVC

HOLE No. PD88MC1

DPO Nos. 37439, 37543

DEPTH From	DEPTH To	CORE REC	CORE SIZE	LOG	GEOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	REC (m)	GEOPHYSICS MAG x10⁻³ SI	GEOPHYSICS SUSI	GEOPHYSICS SCINT CPS
38	40				'As above' with increasing epidote? or chlorite? content	1624718	38	40		1000	1.2	
40	42				Dirty brown-green rock 'as above' with introduction of garnet? - brown to red-brown massive to discrete mineral in groundmass of epidote-chlorite chips. Less mica and pink feldspar and quartz. Magnetite persists.	1624719	40	42		550	1.4	
42	44				'As above'	1624720	42	44		1300	1.4	
44	46				'As above' with chips of coarse grained to pegmatitic k-feldspar	1624721	44	46		1400	1.4	
46	48				'As above' Possible decrease in feldspar content	1624722	46	48		750	1.0	
48	50				K-feldspar-epidote-magnetite-minor quartz-chlorite? rock. Medium grained.	1624723	48	50		2000	1.6	
50	52				'As above'	1624724	50	52		2200	1.6	
52	54				As above with observed porphyritic character with medium to coarse grained pink k-feldspar in a finer grained groundmass of epidote-chlorite-magnetite-amphibole-trace quartz. Possibly a syenite porphyry.	1624725	52	54		2200	1.8	
54	56				'As above'	1624726	54	56		2200	1.8	
56	58				'As above' Evidence of epidote veins with magnetite.	1624727	56	58		1200	1.6	
58	60				'As above'. Petrology: Stressed and altered, medium-grained quartz-diorite to quartz-monzodiorite. Abundant accessory magnetite, apatite, sphene, rarer fluorite, zircon, pyrite & ilmenite?	1624728	58	60		1800	1.8	
60	62				'As above'	1624729	60	62		1800	1.8	
62	64				Equigranular to porphyritic k-feldspar-magnetite-epidote-quartz rock (syenite?) as above. Epidote as veins.	1624730	62	64		3000	1.8	
64	66				'As above'	1624731	64	66		2700	1.8	
66	68				'As above' with minor quartz veining and epidote veining	1624732	66	68		2200	1.8	
68	70				'As above'	1624733	68	70		1500	1.8	

SUMMARY

LOGGED BY JF MARINELLI DATE 24/09/88

SHEET 2 OF 15

CRA EXPLORATION PTY. LIMITED

GEOCHEMICAL RESULTS

PROJECT BAR-1 PROSPECT MT. CHRISTIE E.L. 1524

HOLE No. PD 88 MC1 8562-58

SAMPLE Nos 1624718 - 1624733

DEPTH FROM 38 TO 70 m

DPO Nos 37439 37543

LABS ANALABS PONTIFEX & ASSOC.

Au	Ag	Pb	Zn	Cu	Ni	Co	Cr	Mn
<5	0.5	10	125	35	40	75	5	1270
<5	<0.5	5	140	40	45	70	10	1010
<5	0.5	5	160	45	55	70	10	540
<5	<0.5	5	155	45	65	75	10	675
<5	<0.5	10	100	45	50	40	15	740
<5	<0.5	25	110	30	25	35	15	685
<5	0.5	35	95	35	35	30	20	605
<5	<0.5	30	90	30	35	25	30	585
<5	0.5	20	100	30	30	25	20	735
5	<0.5	20	120	15	5	20	20	980
<5	0.5	15	100	10	<5	15	15	755
<5	<0.5	30	110	15	5	20	20	825
<5	<0.5	20	105	10	5	25	10	730
<5	0.5	15	100	10	5	20	10	645
<5	0.5	20	90	10	5	15	15	645
<5	0.5	20	85	10	10	15	30	620
FIRE ASSAY	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS
5ppb	0.5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm

Sheet 2 of 5

Plan No SAa 4187b

Ref 144 to 28 Dec 88 (1522 - 1524)

CRA EXPLORATION PTY LIMITED

PERCUSSION DRILL LOG

BAR-1 PROSPECT

PROJECT MT CHRISTIE E.L. 1524

CO-ORDINATES 342600mE 6593800mN

RL COLLAR 142m ASL

AZIMUTH GRID NORTH

INCLINATION 90°

DRILLERS DRILLCORP

DRILL TYPE BOURNE 100

COMMENCED 23/09/88

COMPLETED 25/09/88

DEPTH 151m

CASING LEFT 8m PVC

HOLE No. PD88MC1

DPO Nos. 37439, 37543

CRA EXPLORATION PTY. LIMITED

GEOCHEMICAL RESULTS

SAMPLE Nos 1624734 - 1624750

DEPTH FROM 70 TO 104 m

DPO Nos 37439, 37543

LABS ANALABS PONTIFEX & ASSOC.

CRA 1st 14 10/78 Dec '86 (1537-1574)

PROJECT BAR-1 PROSPECT

HOLE No. PD 88 MC 1

8562-59

DEPTH From	DEPTH To	CORE REC	CORE SIZE	LOG	GEOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	REC (m)	GEOPHYSICS MAG SUS x10⁻³ SI	GEOPHYSICS SCINT CPS	Au	Ag	Pb	Zn	Cu	Ni	Co	Cr	Mn
												FIRE ASSAY	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS
												5ppb	0.5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm
70	72				'As above'	1624734	70	72		2000	16	<5	<0.5	20	90	15	10	20	25	590
72	74				'As above' with less epidote. One chip of quartz-biotite with trace of pyrite in k-feldspar-magnetite groundmass	1624735	72	74		2500	18	<5	0.5	25	100	15	10	20	30	655
74	76				'As above' but with increased epidote veining as was above 72m. Trace of white plagioclase feldspar	1624736	74	76		2200	18	10	0.5	30	95	15	10	20	25	660
76	78				'As above' with increased coarse grained white plagioclase feldspar veining. Some trace of magnetite? in plagioclase veins	1624737	76	78		2000	18	<5	0.5	25	75	15	10	15	35	575
78	80				'As above' with less plagioclase	1624738	78	80		1500	18	<5	0.5	15	75	10	5	15	25	605
80	82				'As above'	1624739	80	82		2400	18	<5	0.5	30	85	15	10	20	40	610
82	84				'As above' with trace of pyrite adjacent to epidote vein. Approximate top of water table.	1624740	82	84		2000	16	<5	<0.5	15	80	15	10	20	35	615
84	86				'As above'	1624741	84	86		2000	16	10	0.5	15	85	15	10	15	40	670
86	88				'As above'. No visible pyrite	1624742	86	88		1500	16	<5	<0.5	10	85	10	5	15	30	650
88	90				'As above'. Petrology: Stressed and altered, medium grained granodiorite, accessory magnetite, apatite, rarer fluorite, ilmenite?	1624743	88	90		2000	18	<5	<0.5	10	80	15	5	15	35	645
90	92				'As above'	1624744	90	92		2500	18	<5	0.5	10	100	15	10	25	25	710
92	94				'As above'	1624745	92	94		3000	18	5	0.5	5	95	15	15	25	40	700
94	96				'As above'	1624746	94	96		3500	20	<5	<0.5	5	95	15	10	25	25	695
96	98				'As above'	1624747	96	98		2500	20	<5	<0.5	5	80	20	10	20	40	680
98	100				'As above'	1624748	98	100		3000	20	<5	<0.5	5	80	15	5	20	30	665
100	102				'As above'	1624749	100	102		3000	20	<5	<0.5	5	80	20	15	25	30	655
102	104				'As above' with some minor coarse grained white quartz veining	1624750	102	104		2500	18	<5	<0.5	5	75	25	20	30	30	555

SUMMARY:

LOGGED BY JF MARINELLI DATE 24/09/88

SHEET 3 OF 5

SAo 41870

Sheet 3 of 5

SAo 41870

CRA EXPLORATION PTY LIMITED

PERCUSSION DRILL LOG

PROJECT BAR-1 PROSPECT / MT CHRISTIE E.L. 1524

CO-ORDINATES 426000mE 6593800mN

RL COLLAR 142m ASL

AZIMUTH GRID NORTH

INCLINATION 90°

DRILLERS DRILLCORP

DRILL TYPE BOURNE 1000

COMMENCED 23/09/88

COMPLETED 25/09/88

DEPTH 151m

CASING LEFT 8m PVC

HOLE No. PD88MC1

DPO Nos. 37439, 37543

SAMPLE Nos. 1624751 – 1624764

DEPTH FROM 104 TO 132m

CRA EXPLORATION PTY. LIMITED

GEOCHEMICAL RESULTS

DPO Nos 37439, 37543

LABS. ANALABS PONTIFEX & ASSOC.

PROJECT BAR-1 PROSPECT MT CHRISTIE E.L. 1524

HOLE No. PD 88 MC 1 8562-60

CRA 167/14 to 28 Dec'88 (1522-1524)

DEPTH From	DEPTH To	CORE REC.	CORE SIZE	LOG	GEOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	REC. (m)	GEOPHYSICS MAG SUS x10⁻³ SI	GEOPHYSICS SCINT CPS	Au	Ag	Pb	Zn	Cu	Ni	Co	Cr	Mn
104	106				'As above' with decrease in quartz	1624751	104	106		2800	18	<5	<0.5	5	75	30	20	25	25	530
106	108				'As above'	1624752	106	108		2500	20	<5	<0.5	5	80	30	25	25	25	595
108	110				'As above' with up to 40% epidote rich chips and minor disseminated pyrite	1624753	108	110		2500	18	<5	<0.5	5	100	20	25	35	15	735
110	112				'As above' with 60% epidote chips and disseminated pyrite. Some micro veinlets of feldspar? within epidote chips	1624754	110	112		1200	20	<5	<0.5	15	80	10	15	30	15	710
112	114				'As above' with increase in very fine grained grey massive alteration? together with the green, often pervasive epidote alteration with brown micro veinlets. Possible breccia, or mylonite zone? or shear zone? Brown micro veinlets contain hematite? and chlorite.	1624755	112	114		1200	20	<5	<0.5	5	75	15	5	25	30	640
114	116				'As above' with combinations of alteration i.e. pyrite, epidote and possibly minor hematite and magnetite alteration and veining. K-feldspar persists, as coarse grained porphyroblasts.	1624756	114	116		3000	20	<5	<0.5	5	80	25	30	30	20	580
116	118				'As above' with coarse grained magnetite. Decreasing epidote.	1624757	116	118		5000	18	<5	<0.5	<5	70	35	35	25	15	490
118	120				'As above' with coarse grained magnetite. Minor uphole contamination	1624758	118	120		3500	18	<5	<0.5	5	70	35	30	25	20	475
120	122				'As above' with increase in pink k-feldspar. Traces of coarse grained biotite and increase in plagioclase.	1624759	120	122		4200	16	<5	<0.5	5	70	40	35	30	25	475
122	124				'As above' with further decrease in k-feldspar. Rock is now more monzonitic in character with chips containing minor quartz with green-white feldspar, biotite and minor chlorite and magnetite. Green epidote has decreased.	1624760	122	124		5000	16	<5	<0.5	<5	75	45	45	35	30	505
124	126				'As above'	1624761	124	126		5000	16	<5	<0.5	5	70	45	40	30	30	480
126	128				Medium grained porphyritic to equigranular k-feldspar rich magnetite chlorite minor epidote syenitic rock. Minor chips of altered monzonite or [illegible] green monzodiorite with accessory magnetite. Trace of white carbonate veinlet.	1624762	126	128		4000	16	<5	<0.5	5	75	35	35	30	25	510
128	130				'As above' but dominant in k-feldspar syenite	1624763	128	130		3500	16	<5	<0.5	<5	80	35	40	30	25	515
130	132				'As above'. Petrology: From 120-151m species of medium-grained quartz-diorite to quartz monzodiorite exist, stressed with secondary amphibole around clinopyroxene, minor chlorite, epidote, rare prehnite, accessory magnetite, apatite, pyrite. Some chips more potassic and/or hematised.	1624764	130	132		3500	16	<5	0.5	5	75	40	40	30	25	490
												STATUS ASSAY	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS
													5 ppb	0.5 ppm	5 ppm	5 ppm	5 ppm	5 ppm	5 ppm	5 ppm	5 ppm

SUMMARY:

LOGGED BY JF MARINELLI

DATE 24/10/88

SHEET 4 OF 5

Rice No SAo 4187b

CRA EXPLORATION PTY LIMITED.

PERCUSSION DRILL LOG

BAR-1 PROSPECT

PROJECT MT CHRISTIE E.L. 1524

CO-ORDINATES 342600mE 6593800mN

RL COLLAR 142m ASL

AZIMUTH GRID NORTH

INCLINATION 90°

DRILLERS DRILLCORP

DRILL TYPE BOURNE 1000

COMMENCED 23/09/88

COMPLETED 25/09/88

DEPTH 151m

CASING LEFT 8m PVC

HOLE No. PD88MC1

DPO Nos. 37439, 37543

CRA EXPLORATION PTY. LIMITED.

GEOCHEMICAL RESULTS

SAMPLE Nos. 1624765 - 1624774

DEPTH FROM 132 TO 151 m

DPO Nos 37439 , 37543

LABS. ANALABS PONTIFEX & ASSOC.

PROJECT BAR-1 PROSPECT

HOLE No. PD 88 MC1

8562-61

DEPTH From	DEPTH To	CORE REC	CORE SIZE	LOG	GEOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	REC. (m)	GEOPHYSICS MAG SUS x10⁻³ SI	GEOPHYSICS SCINT CPS	Au	Ag	Pb	Zn	Cu	Ni	Co	Cr	Mn
												FIRE ASSAY	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS
												5ppb	0.5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm
132	134				'As above' with large chip of mylonitised? k-feldspar porphyry. Some minor pyritic alteration in this chip also.	1624765	132	134		4000	16	10	0.5	5	75	40	40	30	30	510
134	136				'As above' with trace of mylonitised chips and vein quartz	1624766	134	136		3000	16	25	0.5	5	80	40	40	30	20	505
136	138				'As above' with slight decrease in k-feldspar content	1624767	136	138		4000	16	90	<0.5	5	70	40	30	25	30	450
138	140				'As above' but with increased contamination from up hole cavings	1624768	138	140		3000	18	20	<0.5	10	65	35	25	25	20	395
140	142				'As above' with 70% k-feldspar syenite, 30% plagioclase syenite? Trace pyrite persists in pan concentrate. Magnetite moderately abundant.	1624769	140	142		3500	18	435	<0.5	5	70	30	25	25	25	460
142	144				'As above' with chips of large pink k-feldspar	1624770	142	144		3500	18	10	0.5	5	65	30	20	25	40	430
144	146				'As above'	1624771	144	146		3500	18	95	0.5	5	80	40	35	30	30	440
146	148				'As above' with observed chlorite chips	1624772	146	148		6000	18	30	<0.5	5	80	35	35	35	15	405
148	150				'As above' with increased k-feldspar content. Minor epidote observed in shears and veinlets	1624773	148	150		4000	18	145	0.5	5	75	25	20	30	40	455
150	151				'As above' with possible bit wear contamination	1624774	150	151		2000	18	20	<0.5	5	75	25	15	35	30	355
					BIT HAS COME APART FROM HAMMER. LOST DOWN THE HOLE.															
					E.O.H. 151m															

SUMMARY: Petrological examination of rock chips from PD88MC1 shows that plagioclase is dominant over k-feldspar in the basement rock - therefore basement is a mafic granodiorite to quartz-monzodiorite.

LOGGED BY JF MARINELLI

DATE 25/09/88

SHEET 5 OF 5

Sheet 5 of 5

Plan No SAo 4187b

CRA EXPLORATION PTY LIMITED.

PERCUSSION DRILL LOG

PROJECT BAR-3 PROSPECT MT. CHRISTIE E.L. 1524

CO-ORDINATES 6575450mN 307000mE

AZIMUTH GRID NORTH

RL COLLAR 161m ASL

INCLINATION 90°

DRILLERS DRILL CORP

DRILL TYPE BOURNE 1000

COMMENCED 08/10/88

COMPLETED 11/10/88

DEPTH 100.5m

CASING LEFT 13.5m

HOLE No. PD88MC4

DPO Nos. 37440, 37441

SAMPLE Nos. 1624891 - 1624915

DEPTH FROM 0 TO 50m

CRA EXPLORATION PTY. LIMITED.

GEOCHEMICAL RESULTS

DPO Nos 37440, 37441

LABS. ANALABS PONTIFEX & ASSOC.

PROJECT BAR-3 PROSPECT MT. CHRISTIE E.L. 1524

HOLE No. PD 88 MC4

8562-62

DEPTH From	DEPTH To	CORE REC.	CORE SIZE	LOG	GEOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	REC (m)	GEOPHYSICS MAG SUS x10⁻³ SI	GEOPHYSICS SCINT CPS	Au	Ag	Pb	Zn	Cu	Ni	Co	Cr	Mn
												FIRE ASSAY	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS
												5ppb	0.5ppm	5ppm	5ppm	5ppm	6ppm	5ppm	5ppm	5ppm
0	4				UNCONSOLIDATED SAND OVERLYING CALCRETE															
					Pale orange unconsolidated dune sand from 0-2m with underlying white calcrete from 2-4m	1624891	0	2		50	27	<5	0.5	<5	25	15	10	5	340	90
						1624892	2	4		35	28	<5	0.5	<5	<5	10	5	<5	235	45
4	12				HIGHLY WEATHERED QUARTZ-FELDSPAR RICH BASEMENT															
					Medium to fine grained pink to orange quartz-feldspar rich weathered sand which is most likely	1624893	4	6		30	28	<5	0.5	<5	<5	10	10	5	335	55
					to be basement	1624894	6	8		20	28	<5	0.5	<5	<5	10	<5	<5	265	35
						1624895	8	10		15	28	<5	0.5	<5	<5	5	5	<5	275	30
						1624896	10	12		5	28	<5	0.5	<5	<5	5	5	<5	255	25
12	14				WEATHERED TO FRESH ORANGE FELDSPAR QUARTZ GNEISS															
					Equigranular to porphyritic fine to medium to coarse grained pink feldspar-quartz gneiss with	1624897	12	14		10	28	<5	0.5	<5	<5	5	<5	<5	365	30
					traces of ferromagnesium minerals															
14	26				WEATHERED TO FRESH INTERBEDDED MAFIC SCHIST AND FELDSPAR QUARTZ GNEISS															
					Grey-black weathered highly micaceous (biotite?) magnetite amphibole? schist with interbedded	1624898	14	16		110	36	<5	0.5	10	20	15	5	5	180	195
					pink to orange quartz feldspar gneiss (very coarse crystalline quartz). The thickness of	1624899	16	18		150	42	<5	0.5	5	30	10	5	5	130	360
					individual bands of each component varies from 1m for schist to 3cm for the gneiss. Some	1624900	18	20		600	40	<5	<0.5	<5	30	15	15	10	270	430
					chips are ferruginised while others are kaolinised. Fresh chips of silicified? mafic schist show	LOST SAMPLE 20-21m															
					specks of pyrite disseminated in groundmass. Trace epidote veining. Pegmatitic quartz-															
					feldspar veins also. Pyrite content increases below 22m.	1624901	21	22		1400	34	<5	0.5	<5	50	25	15	20	145	820
					Contamination from up hole collapse due to casing cutting results in lost sample for 20-21m	1624902	22	24		1600	38	<5	0.5	5	45	13	15	10	170	550
					interval. Minor contamination continues below this depth. More mafic gneiss occurs below 24m.	1624903	24	26		2200	35	<5	<0.5	5	45	15	10	15	120	690
26	49				BIOTITE-QUARTZ-MAGNETITE TO BIOTITE-QUARTZ-K-FELDSPAR-MAGNETITE GNEISS															
					Black fine grained biotite-quartz-magnetite gneiss with traces of pyrite is dominant over orange	1624904	26	28		2000	36	<5	<0.5	<5	80	25	20	25	70	980
					to black biotite-quartz-k-feldspar-magnetite gneiss. Traces of narrow epidote veining. Occasional	1624905	28	30		1000	35	<5	<0.5	<5	65	20	15	20	120	900
					pegmatitic k-feldspar-quartz veins occur.	1624906	30	32		650	33	<5	<0.5	<5	55	35	30	25	90	895
					Dominant quartz-feldspar gneiss at 32-34m	1624907	32	34		400	43	<5	0.8	10	20	13	10	10	250	360
					Decrease in magnetite from 30-36m	1624908	34	36		350	34	<5	<0.5	<5	45	45	40	30	75	755
					Entirely biotite-magnetite-quartz gneiss from 42-46m	1624909	36	38		1500	32	<5	<0.5	5	70	35	30	25	100	910
					Minor biotite-tremolite? schist from 48-49m	1624910	38	40		1800	37	<5	<0.5	<5	65	25	20	20	110	875
						1624911	40	42		2600	35	<5	<0.8	<5	75	25	25	30	80	1070
						1624912	42	44		4000	36	<5	0.8	<5	90	15	25	25	85	675
						1624913	44	46		3800	36	<5	<0.8	<5	90	15	25	30	65	790
						1624914	46	48		2000	37	<5	<0.5	<5	95	15	25	30	60	745
						1624915	48	50		1500	37	<5	0.5	<5	100	10	25	20	90	700

SUMMARY:

LOGGED BY JF MARINELLI DATE 09/10/88

SHEET 1 OF 2

SAo 41870

Sheet 1 of 2

CRA EXPLORATION PTY LIMITED.

PERCUSSION DRILL LOG

PROJECT BAR-3 PROSPECT MT. CHRISTIE E.L. 1524

CO-ORDINATES 6575450mN 307000mE | AZIMUTH GRID NORTH | DRILLERS DRILL CORP | COMMENCED 08/10/88 | DEPTH 100.5m | HOLE No. PD88MC4

RL COLLAR 161m ASL | INCLINATION 90° | DRILL TYPE BOURNE 10 | COMPLETED 11/10/88 | CASING LEFT 13.5m | DPO Nos 37440 37441

CRA EXPLORATION PTY. LIMITED.

GEOCHEMICAL RESULTS

PROJECT BAR-3 PROSPECT MT. CHRISTIE E.L. 1524

HOLE No. PD88 MC4 8562-63

SAMPLE Nos. 1624916 - 1624941

DEPTH FROM 50 TO 100.5m

DPO Nos 37440, 37441

LABS. ANALABS PONTIFEX & ASSOC.

DEPTH From	DEPTH To	CORE REC	CORE SIZE	LOG	GEOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	REC (m)	GEOPHYSICS MAG SUS x10⁻⁵ SI	GEOPHYSICS SCINT CPS	Au	Ag	Pb	Zn	Cu	Ni	Co	Cr	Mn
												FIRE ASSAY	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS
												5ppb	0.5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm
49	66				BIOTITE SCHIST															
					Fine to medium grained black soft biotite-(tremolite) schist with minor fine grained biotite-	1624916	50	52		1300	37	5	<0.5	<5	125	15	30	30	40	755
					magnetite-quartz schist and gneiss. Biotite-quartz-magnetite schist dominant below 52-56m.	1624917	52	54		2700	37	<5	0.5	<5	90	30	25	30	45	860
					Magnetite content decreases between 56-60m. Mine pink to black quartz-feldspar-biotite-	1624918	54	56		1700	37	<5	0.5	<5	50	10	15	15	110	615
					magnetite gneiss appears from 62-63m	1624919	56	58		500	44	<5	0.5	<5	20	5	10	5	220	465
						1624920	58	60		300	44	<5	<0.5	<5	20	5	10	10	135	520
						1624921	60	62		2000	40	<5	0.5	<5	50	10	20	15	105	755
						1624922	62	64		4000	33	<5	0.5	<5	80	20	15	30	65	1295
						1624923	64	66		2000	35	<5	0.5	<5	85	35	25	30	65	1340
66	100.5				INTERBANDED QUARTZ-K-FELDSPAR-MAGNETITE-BIOTITE GNEISS & BIOTITE-QUARTZ-MAGNETITE GNEISS AND SCHIST																
					Fine grained interlayered gneisses and schist as for above lithologies.	1624924	66	68		1500	39	<5	0.5	<5	65	25	20	20	130	931
					Trace of epidote disseminated in biotite-quartz-ma[gnetite] schist from 74-76m	1624925	68	70		1000	57	<5	<0.5	10	15	5	5	<5	390	290
					Trace of green-white carbonate vein chips from 80	1624926	70	72		700	52	<5	0.5	<5	40	5	<5	10	165	535
					Biotite-magnetite-quartz gneiss/schist dominant [from] 84-88m	1624927	72	74		750	42	<5	<0.5	5	30	10	15	5	140	435
						1624928	74	76		3000	40	<5	0.5	<5	65	15	15	20	85	885
						1624929	76	78		600	42	<5	0.5	5	25	15	5	10	180	530
						1624930	78	80		1500	39	10	0.5	<5	45	30	20	20	120	775
						1624931	80	82		4000	30	5	0.5	<5	70	20	35	30	60	1215
						1624932	82	84		3000	30	<5	<0.5	<5	65	35	30	30	55	1120
						1624933	84	86		2000	30	5	<0.5	<5	55	30	20	25	85	935
						1624934	86	88		1500	30	10	0.5	<5	65	55	25	30	75	1015
						1624935	88	90		1300	32	10	<0.5	<5	70	75	30	35	60	1120
					Introduction of 20% quartz-plagioclase-epidote gneiss from 92m-96m	1624936	90	92		1300	35	10	0.5	<5	50	55	30	25	80	875
					Dominant quartz-biotite-magnetite gneiss from 96m	1624937	92	94		950	35	<5	1.0	<5	30	15	20	15	115	545
					Trace of pyrite from 96m	1624938	94	96		950	32	5	0.5	<5	60	35	25	25	70	890
						1624939	96	98		950	36	<5	0.5	<5	65	45	35	30	75	980
						1624940	98	100		950	36	10	0.5	<5	60	45	30	30	90	900
						1624941	100	100.5		1200	35	<5	0.5	5	80	50	30	35	105	865
					BIT PROBLEMS - 100.5m E.O.H.															
					Petrology: Fresh drill chips chosen from above inc[lude] massive essentially primary fine (biotite) dolerite, progressively metamorphosed to biotite a[nd] hornblende.															

SUMMARY

LOGGED BY JF MARINELLI DATE 10/10/88

SHEET 2 OF 2

SAo 4187a

Sheet 2 of 2

CRA EXPLORATION PTY. LIMITED.

PERCUSSION DRILL LOG

PROJECT MT. CHRISTIE E.L. 1524

CO-ORDINATES 6575450mN 311000mE

RL COLLAR 146m ASL

AZIMUTH GRID NORTH

INCLINATION -60°S

DRILLERS DRILL CORP

DRILL TYPE BOURNE 1000

COMMENCED 11/10/88

COMPLETED 13/10/88

DEPTH 100m

CASING LEFT 21.1m

HOLE No. PD88MC5

DPO Nos. 37440, 37441

DEPTH From	DEPTH To	CORE REC	CORE SIZE	LOG	GEOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	REC (m)	GEOPHYSICS MAG SUS x10⁻⁵ SI	GEOPHYSICS SCINT CPS
0	10				UNCONSOLIDATED DUNE SAND WITH CALCRETE Orange dune sand with a layer or bands of calcrete towards 10m. Trace of weathered basement (gneiss?)	1624942	0	2		20	22
						1624943	2	4		15	22
						1624944	4	6		10	24
						1624945	6	8		5	20
						1624946	8	10		5	22
10	38				WEATHERED BASEMENT Orange to brown weathered basement, possibly gneiss or silcretised. Clay altered medium to fine grained gneiss? below 20m. Ferruginised pellets from 30m together with white clay altered basement. Pink silcrete? below 36m.	1624947	10	12		5	22
						1624948	12	16		5	22
						1624949	16	18		5	20
						1624950	18	20		5	22
						1624951	20	22		5	22
						1624952	22	24		7	20
						1624953	24	26		10	22
						1624954	26	28		7	22
						1624955	28	30		12	24
						1624956	30	32		12	22
						1624957	32	34		12	22
						1624958	34	36		12	28
						1624959	36	38		45	22
38	42				WEATHERED QUARTZ FELDSPATHIC GNEISS W. [illegible] MAGNETITE SCHIST White to tan to orange, [illegible] from quartz feldspar gneiss with interbedded very fine grained black magnetite-biotite schist and coarser to gneiss. Biotite magnetite quartz gneiss dominates below 40m.	1624960	38	40		50	28
						1624961	40	42		250	28
42	94				BIOTITE-MAGNETITE-PLAGIOCLASE-QUARTZ GNEISS Black equigranular magnetite-biotite-plagioclase-quartz gneiss with minor quartz and uphole contamination. Some traces of quartz-feldspar gneiss both pink and off-white in some samples. Evidence of coarse to pegmatitic quartz-feldspar [illegible] biotite gneiss also	1624962	42	44		450	27
						1624963	44	46		600	25
						1624964	46	48		500	25
						1624965	48	50		650	25
						1624966	50	52		750	25
					Equigranular quartz-magnetite-biotite-feldspar gneiss lacks foliation	1624967	52	54		600	22
					Traces of feldspar-quartz-pegmatite vein or gneiss	1624968	54	56		600	25
					The rock as a whole may be more towards a monzonite which has suffered slight metamorphism [illegible]	1624969	56	58		900	24
						1624970	58	60		550	23

SUMMARY

LOGGED BY JF MARINELLI DATE 12/10/88

SHEET 1 OF 2

S.m 4187a

CRA EXPLORATION PTY. LIMITED.

GEOCHEMICAL RESULTS

SAMPLE Nos. 1624942 - 1624970

DEPTH FROM 0 TO 60 m

DPO Nos 37440, 37441

LABS. ANALABS PONTIFEX & ASSOC.

Au	Ag	Pb	Zn	Cu	Ni	Co	Cr	Mn
<5	0.5	<5	5	10	10	<5	235	45
5	0.5	5	15	10	15	<5	385	50
5	0.5	<5	5	10	20	<5	350	40
5	0.5	<5	<5	5	10	<5	170	30
<5	0.5	<5	<5	5	10	<5	465	30
5	0.5	<5	<5	5	10	<5	310	30
5	0.5	<5	<5	5	10	<5	385	35
<5	0.5	<5	<5	5	10	<5	585	35
<5	0.5	<5	<5	5	5	<5	475	40
<5	0.5	<5	<5	5	10	<5	610	40
<5	0.5	5	<5	15	5	<5	240	40
<5	0.5	10	<5	10	5	<5	85	100
<5	0.5	15	5	10	15	<5	70	90
<5	0.5	5	15	30	20	5	25	75
<5	0.5	<5	35	35	35	15	35	175
<5	0.5	5	50	30	25	20	85	500
<5	0.5	<5	50	35	30	25	85	540
<5	0.5	<5	50	40	40	30	65	543
<5	0.5	<5	50	45	40	30	70	530
<5	<0.5	<5	45	40	35	30	60	470
<5	0.5	<5	45	30	45	30	65	550
<5	0.5	5	40	30	35	25	65	440
<5	0.5	5	45	35	40	25	85	470
<5	0.5	<5	50	30	30	25	85	565
FINAL ASSAY	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS
5ppb	0.5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm

(S) 1/4 to 28/12/88

PROJECT BAR-4 PROSPECT MT. CHRISTIE E.L. 1524

HOLE No. PD 88 MC5 8562-64

Sheet 1 of 2

Plan No SAo 4187b

CRA EXPLORATION PTY LIMITED

PERCUSSION DRILL LOG

PROJECT MT. CHRISTIE E.L. 1524

CO-ORDINATES 6575450mN 311000mE

RL COLLAR 146m ASL

AZIMUTH GRID NORTH

INCLINATION -60°S

DRILLERS DRILL CORP

DRILL TYPE BOURNE 1000

COMMENCED 11/10/88

COMPLETED 13/10/88

DEPTH 100m

CASING LEFT 21.1m

HOLE No. PD88MC5

DPO Nos. 37440, 37441

DEPTH From	DEPTH To	CORE REC	CORE SIZE	LOG	GEOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	REC. (m)	GEOPHYSICS MAG SUS x10-5 SI	GEOPHYSICS SCINT CPS
					Components are still quartz (<10%), magnetite, plagioclase and biotite with accessory k-feldspar?	1624971	60	62		800	25
					Continual contamination uphole leaves red feldspar in panned concentrate.	1624972	62	64		350	25
					Trace of epidote-feldspar-quartz vein at 60-62m. K-feldspar (coarse grained) accounts for 30% of sample between 62-64m.						
64	74				K-FELDSPAR-QUARTZ GNEISS WITH MINOR MAFIC GNEISS						
					Medium to fine grained pink to white k-feldspar-quartz gneiss with traces of magnetite slightly	1624973	64	66		150	28
					dominant over interbanded very fine grained magnetite-biotite gneiss with accessory quartz and	1624974	66	68		750	30
					plagioclase. Increase in mafic gneiss from 72m.	1624975	68	70		1000	26
						1624976	70	72		1100	28
						1624977	72	74		1500	27
						1624978	74	76		1200	28
74	100				MAFIC GNEISS INTERBEDDED WITH QUARTZ-FELDSPAR GNEISS						
					Very fine grained biotite-magnetite-quartz gneiss as above with minor quartz-k-feldspar gneiss as above.	1624979	76	78		1200	25
						1624980	78	80		1400	25
					Poor sample return for 82-84m	1624981	80	82		750	25
					No sample return for 84-86m	1624982	82	84		1000	25
					Poor sample return 86-88m	NO SAMPLE		84	86		
					Magnetite content decreases slightly below 88m	1624983	86	88		400	25
					Some PVC contamination in sample 94-100m	1624985	90	92		500	27
						1624986	92	94		500	27
						1624987	94	96		500	31
						1624988	96	98		500	30
						1624989	98	100		550	32
					E.O.H. 100m	1624986	88	90		500	25
					Petrology: A selection of percussion chips examined in a composite thin section showed rock species as a combination of						
					(a) schistose amphibolite with accessory magnetite, sphene, pyrite and apatite. It appears to represent a metamorphosed basalt to dolerite.						
					(b) quartzo-feldspathic gneiss with quartz laminae and lenticular layer-parallel alteration zones rich in epidote and sericite. This may represent a granitic origin.						
					(c) quartz-biotite schist with accessory magnetite. This appears to represent a metasediment.						
					The chips appear to have experienced amphibolite facies metamorphism.						

SUMMARY:

LOGGED BY JF MARINELLI

SHEET 2 OF 2

DATE 12/10/88

SAo 41870

CRA EXPLORATION PTY. LIMITED.

GEOCHEMICAL RESULTS

PROJECT BAR-4 PROSPECT MT. CHRISTIE E.L. 1524

HOLE No. PD 88 MC 5 8562-65

SAMPLE Nos. 1624971 - 1624989

DEPTH FROM 60 TO 100m

DPO Nos 37440, 37441

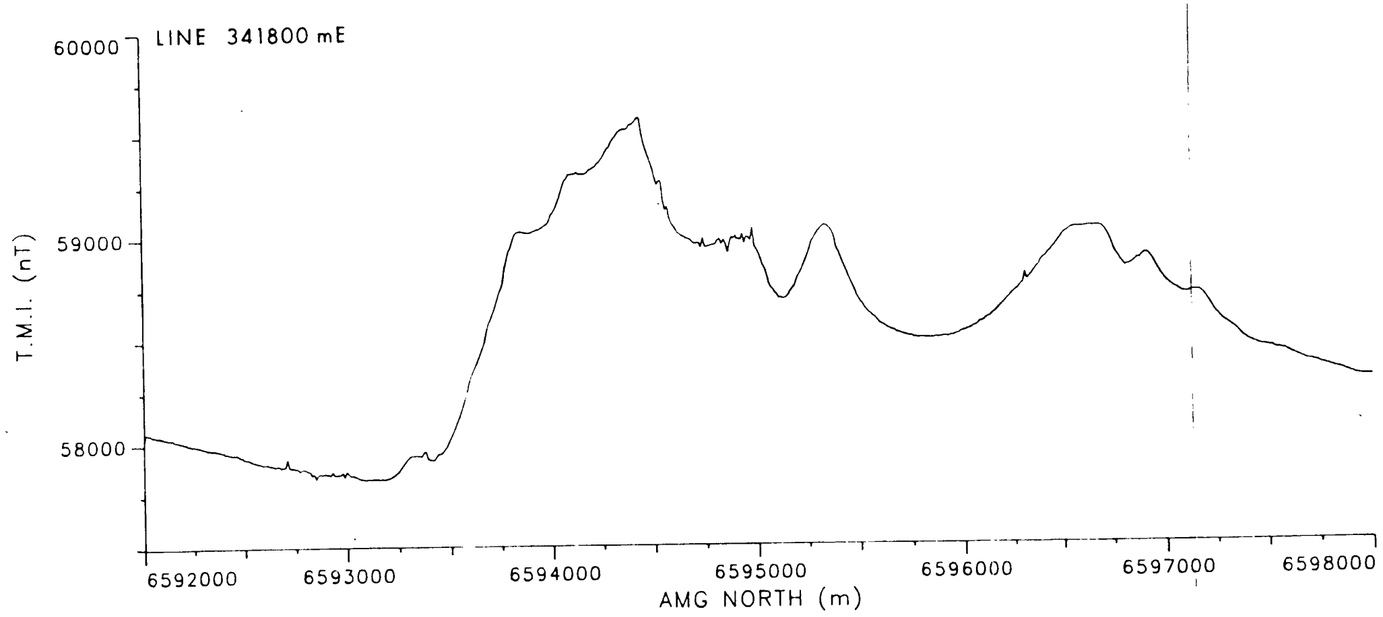
LABS. ANALABS PONTIFEX & ASSOC.

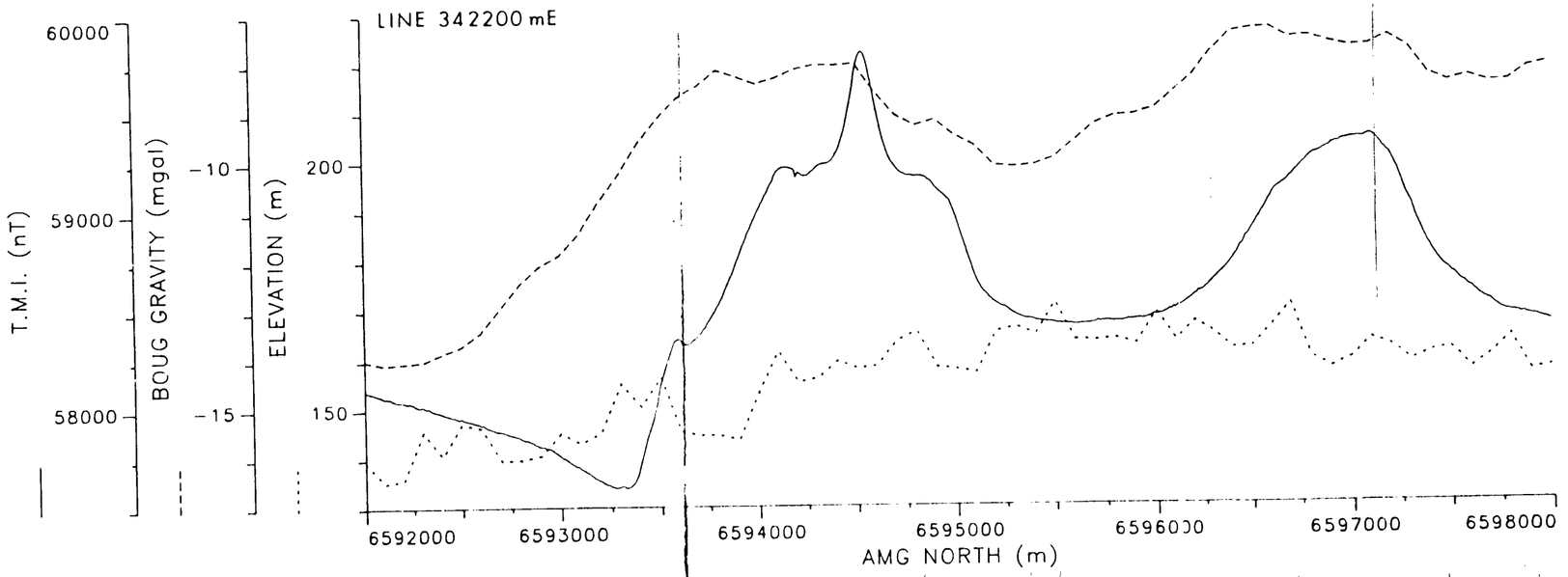
Au	Ag	Pb	Zn	Cu	Ni	Co	Cr	Mn
<5	0.5	<5	40	30	35	25	70	500
<5	0.5	5	30	25	30	20	75	525
<5	0.5	<5	15	20	20	15	85	370
5	<0.5	<5	40	30	30	25	75	545
<5	<0.5	5	45	40	45	30	50	665
<5	0.5	<5	45	40	45	30	70	605
<5	0.5	<5	60	35	40	25	60	540
<5	<0.5	5	50	40	35	25	60	585
<5	0.5	5	70	40	35	35	40	835
<5	<0.5	5	75	40	40	30	60	820
<5	<0.5	<5	90	40	40	35	40	1035
<5	0.5	10	55	35	40	25	90	665
<5	<0.5	5	55	25	40	25	65	725
<5	0.5	25	90	35	50	30	70	880
<5	0.5	10	70	30	50	25	80	770
<5	0.5	<5	70	30	55	30	40	760
<5	0.5	10	65	30	60	30	60	780
<5	<0.5	5	55	25	50	25	35	625
<5	0.5	5	90	35	55	30	50	920
FIRE ASSAY	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS
5ppb	0.5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm	5ppm

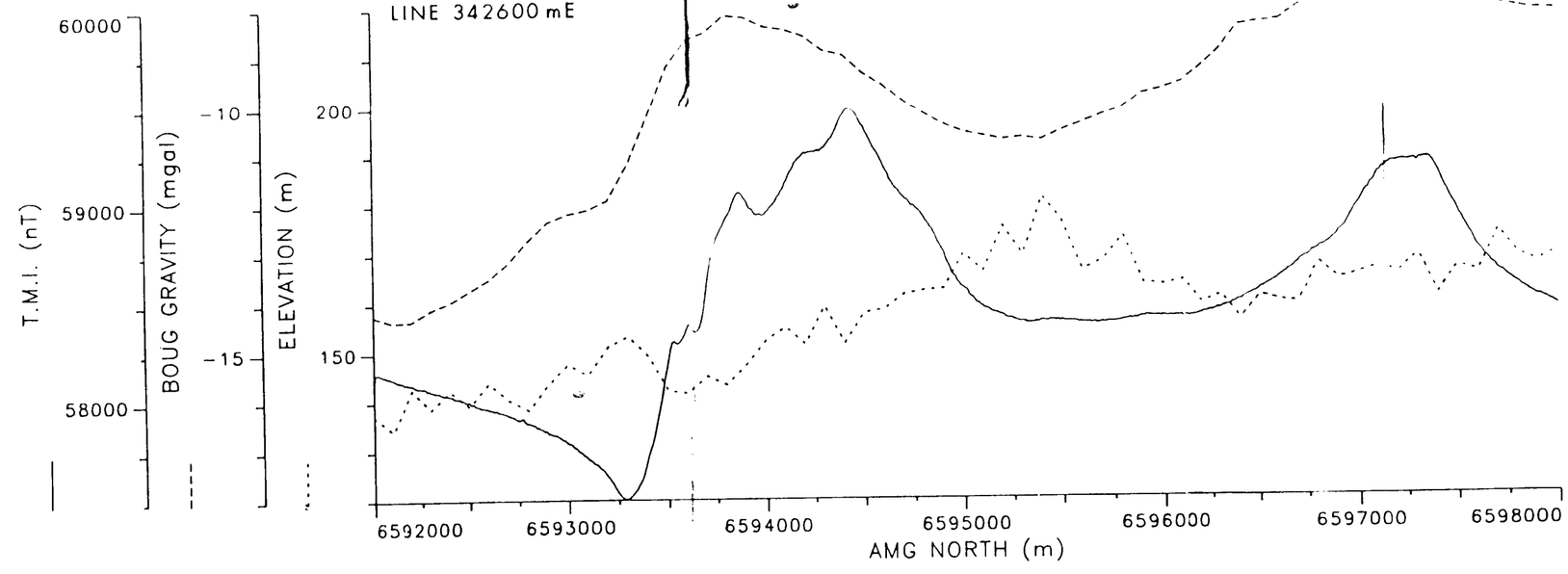
Sheet 2 of 2

Form No. SAo - 878

8562-66





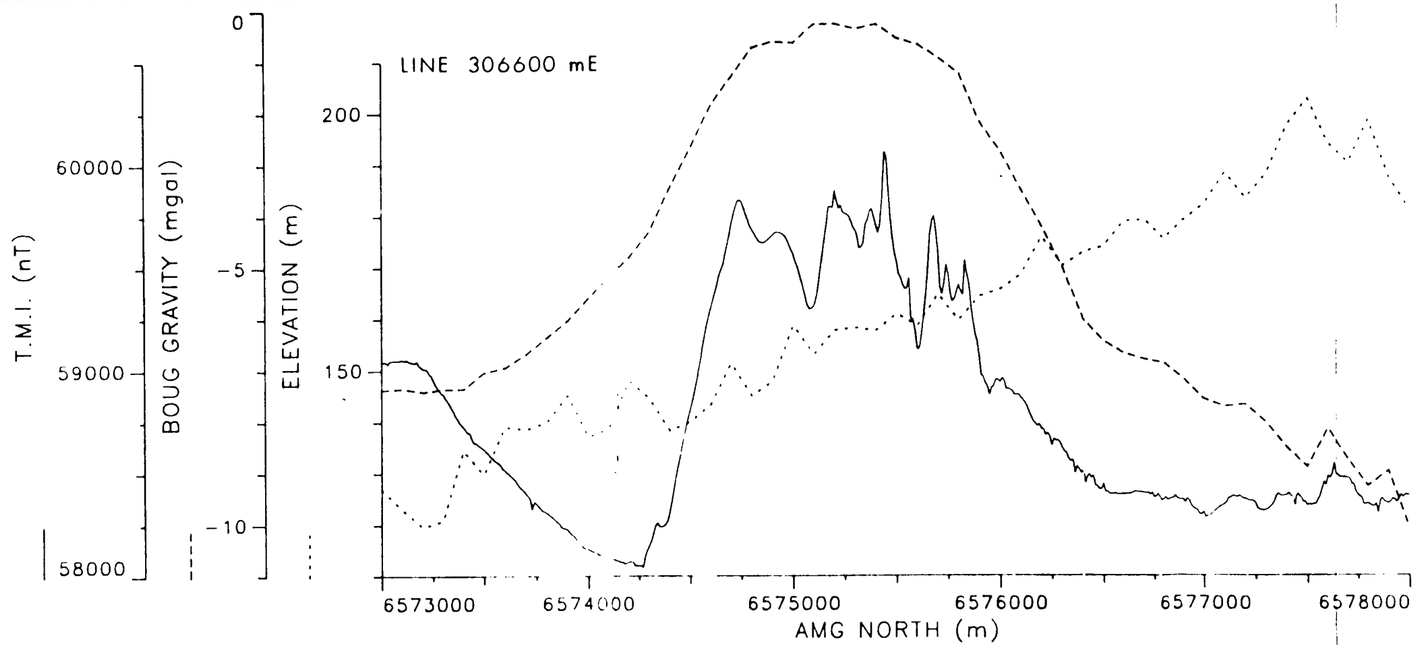


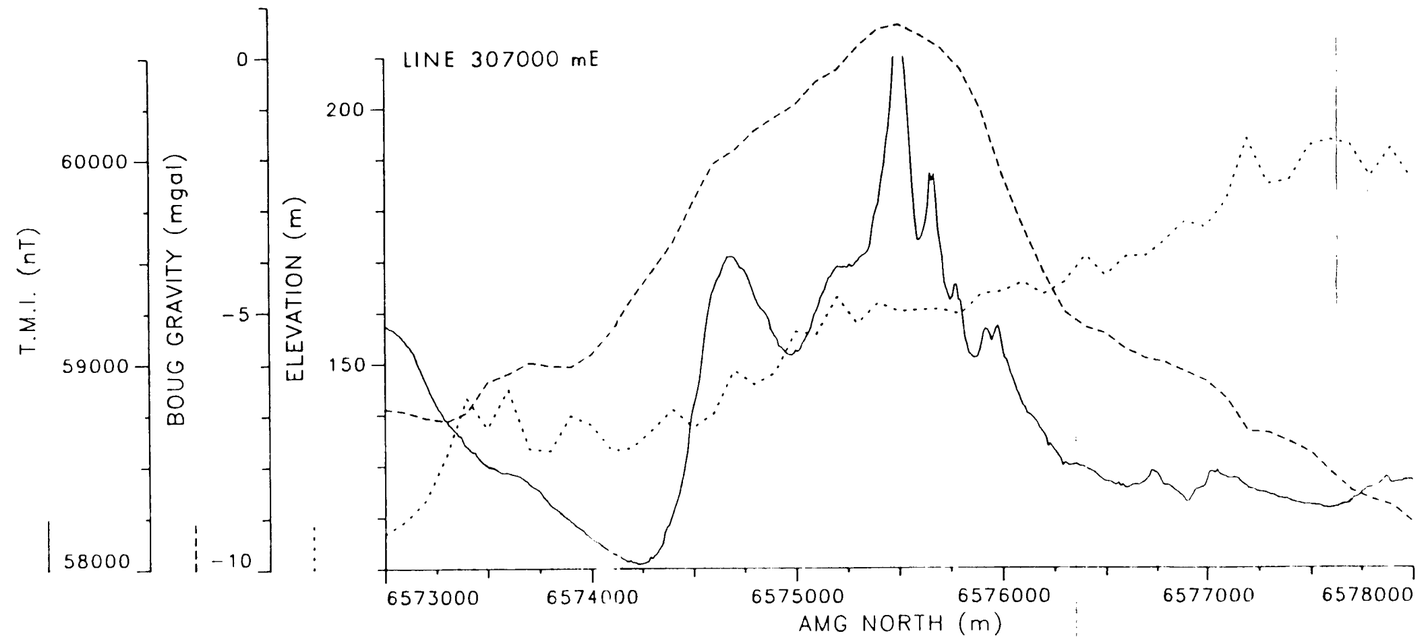
Bouguer Density : 1·9 gm/cc

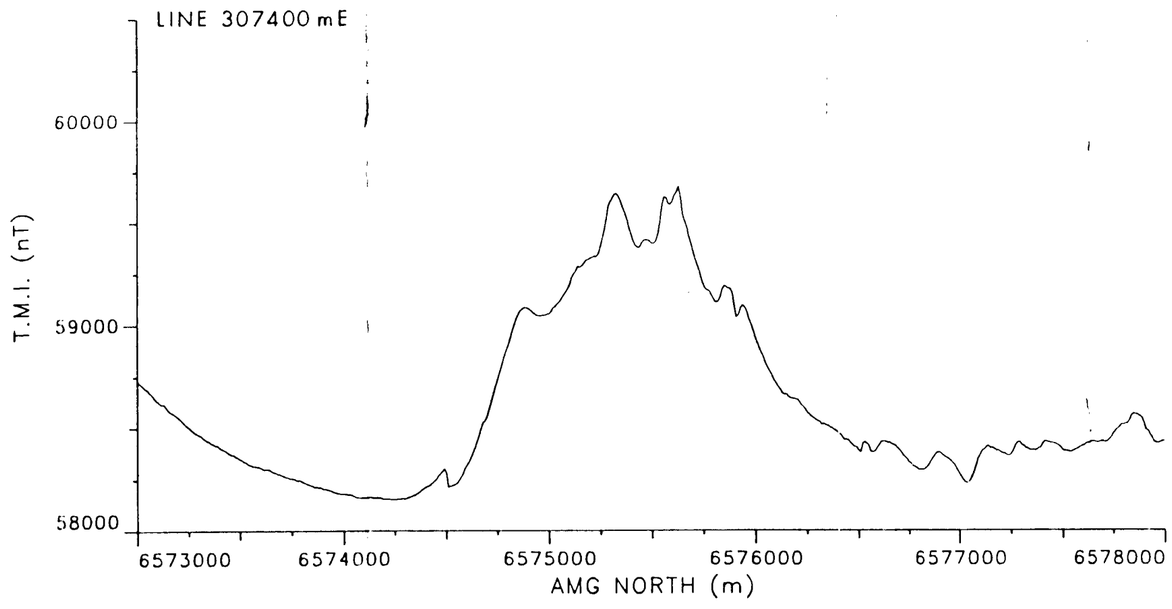
1st 11416 25 Dec'88

CRA EXPLORATION PTY LTD	
BARTON J/V BAR–1 PROSPECT MAGNETIC AND GRAVITY PROFILES	
REFERENCE BARTON SH 53–09	
SCALE 1:25,000	DRAWN GLM
AUTHOR GLM	REPORT 15657
DATE 8 JUN 88	PLAN No SAa 4934

8562-66





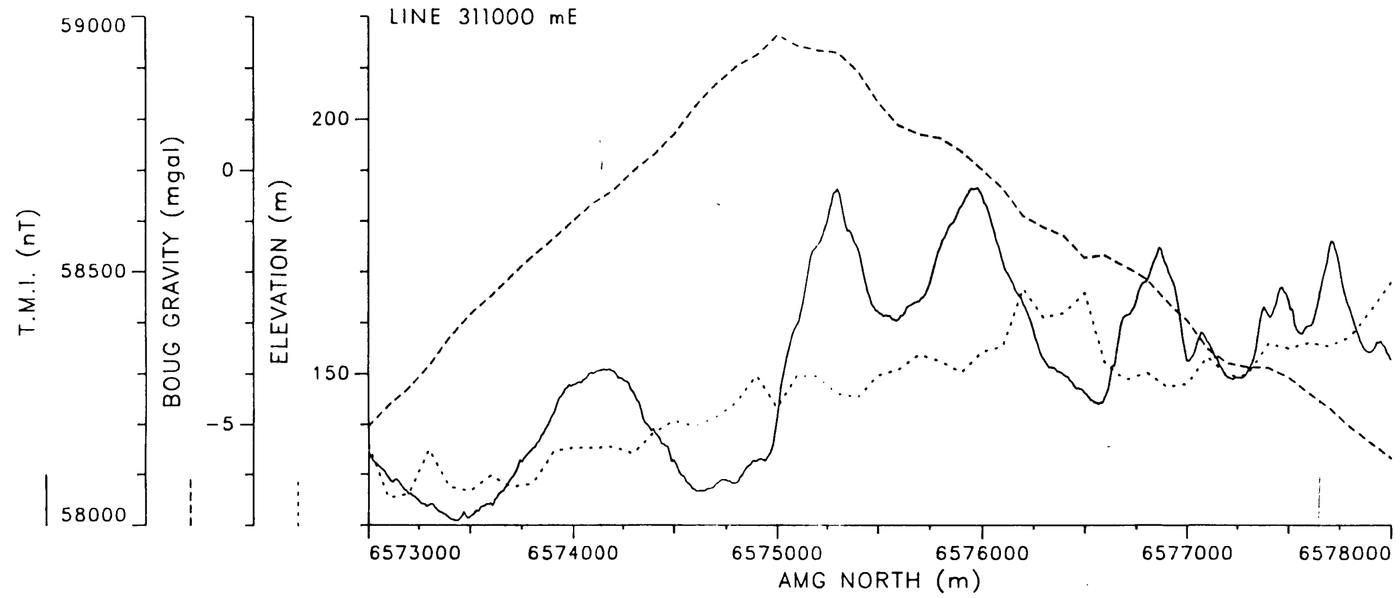


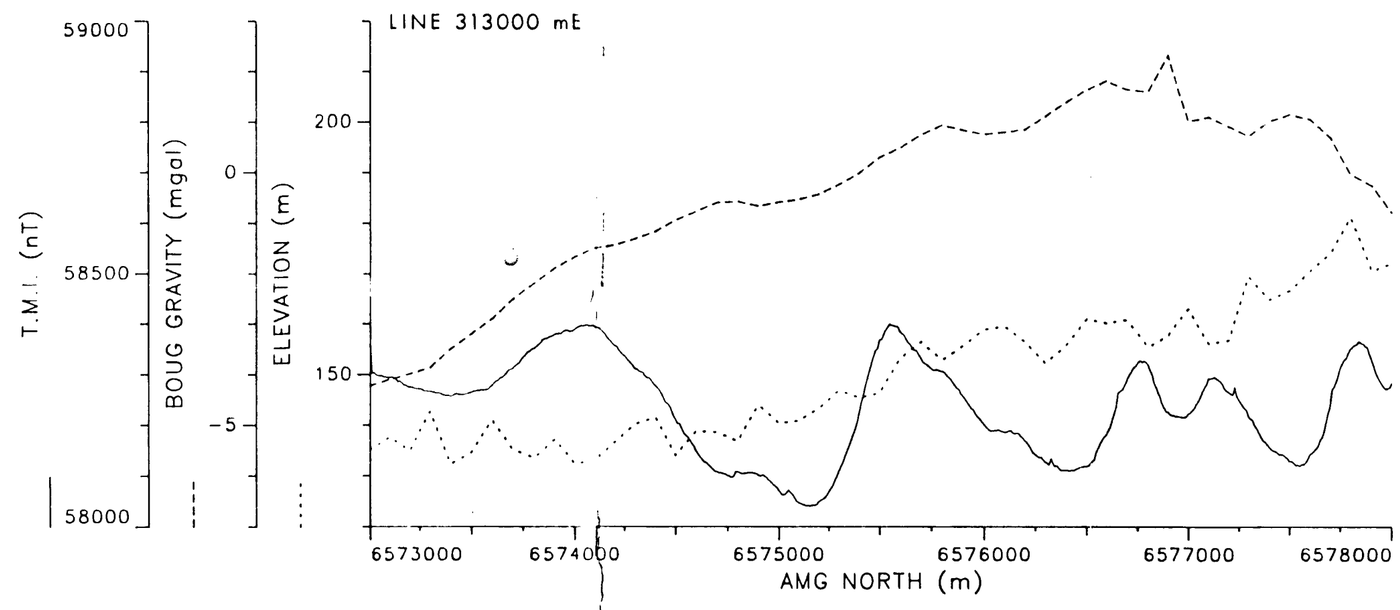
Bouguer Density : 1·9 gm/cc

rcl '14 to 28 Dec '88

CRA EXPLORATION PTY LTD	
BARTON J/V BAR–3 PROSPECT MAGNETIC AND GRAVITY PROFILES	
REFERENCE BARTON SH 53–09	
SCALE 1:25,000	DRAWN GLM
AUTHOR GLM	REPORT 15657
DATE 8 JUN 88	PLAN No SAa 4935

8562-67





Bouguer Density · 1·9 gm/cc

1st '14 to 28 Dec '88

CRA EXPLORATION PTY LTD

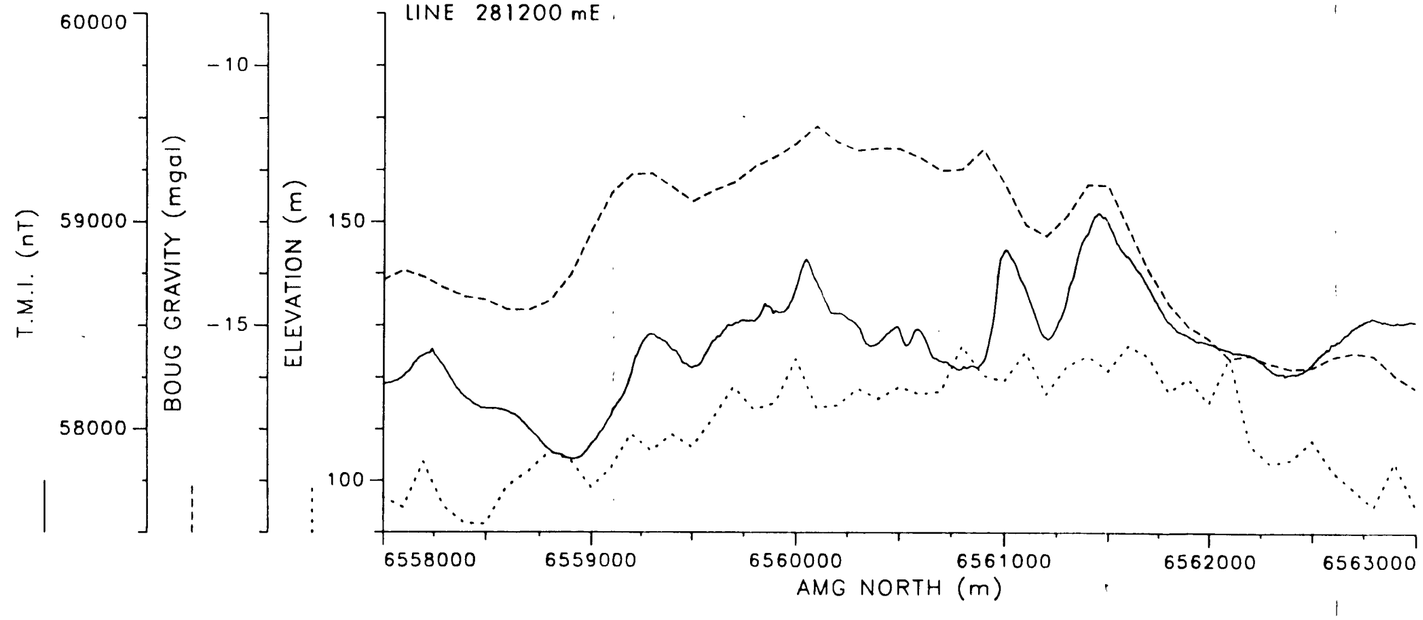
BARTON J/V

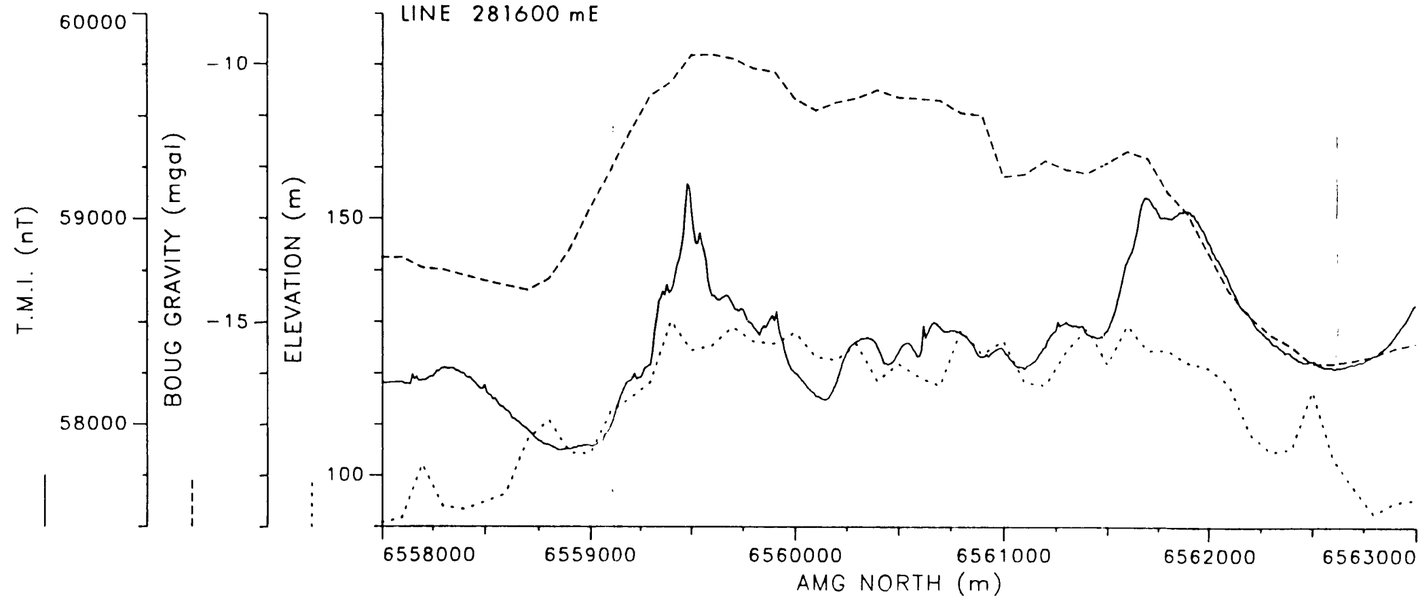
BAR–4 PROSPECT

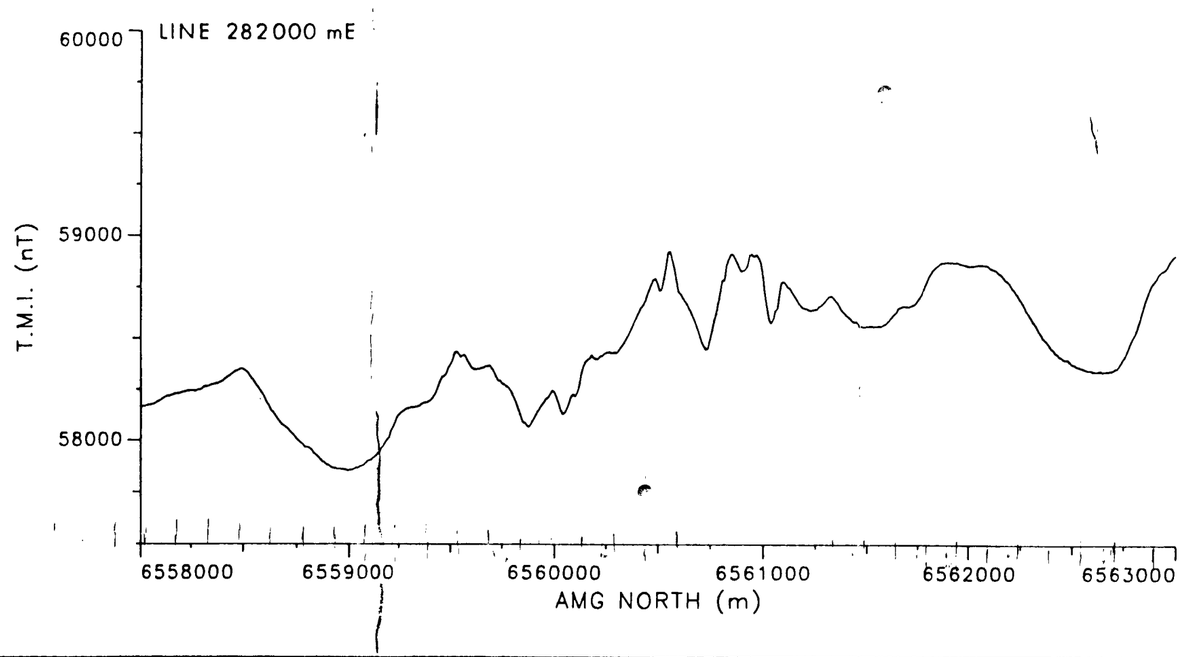
MAGNETIC AND GRAVITY PROFILES

REFERENCE BARTON SH 53–09	
SCALE 1:25,000	DRAWN GLM
AUTHOR GLM	REPORT 15657
DATE 8 JUN 88	PLAN No SAa 4936

8562-68







Bouguer Density : 1·9 gm/cc

1st proj to 25 Dec '88

CRA EXPLORATION PTY LTD	
BARTON J/V BAR–10 PROSPECT MAGNETIC AND GRAVITY PROFILES	
REFERENCE FOWLER SH 53–13	
SCALE 1:25,000	DRAWN GLM
AUTHOR GLM	REPORT 15657
DATE 9 JUN 88	PLAN No SAa 4941

8562-69

MAG SUS (SIx10−5) 0 10000

HAND SCINT (CPS) BGS-4 0 100

Lithology

0 m 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SZ

carb veins?

Weathered

TD 151m

Au ppm 0 0.25 0.5 0.75 1

Cu ppm 0 50 100 150 200

Pb ppm 0 50 100 150 200

Zn ppm 0 100 200 300 400

Co ppm 0 50 100 150 200

Ni ppm 0 50 100 150 200

Cr ppm 0 125 250 375 500

Mn ppm 0 500 1000 1500 2000

MAG SUS (SIx10−5) 0 10000

HAND SCINT (CPS) BGS-4 0 100

Au ppm 0 0.25 0.5 0.75 1

Cu ppm 0 50 100 150 200

Pb ppm 0 50 100 150 200

Zn ppm 0 100 200 300 400

Co ppm 0 50 100 150 200

Ni ppm 0 50 100 150 200

Cr ppm 0 125 250 375 500

Mn ppm 0 500 1000 1500 2000

LEGEND

RECENT
- ALLUVIUM
- FERRICRETE

UNCONFORMITY

PROTEROZOIC
- WEATHERED BASEMENT
- MONZO - DIORITE
- GRANODIORITE
- DIORITE

e Epidote
m Magnetite
c Carbonate Altered
py Pyrite
q Quartz
sz Shear Zone

1st '14 to 29 Dec '88

CRA EXPLORATION PTY LIMITED

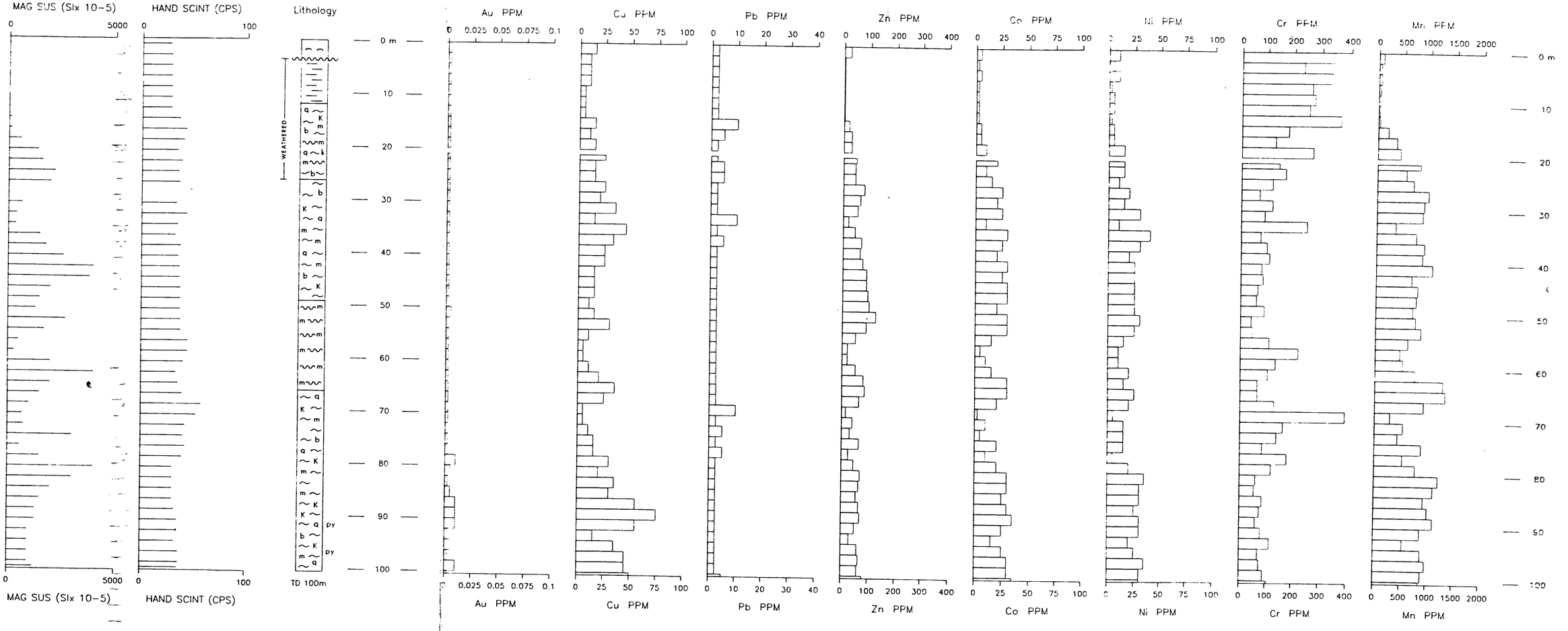
MT. CHRISTIE EL 1524 – SA

BAR–1 Prospect

Drillhole Logs – PD88MC1

REFERENCE BARTON SH5309	
SCALE 1:500	DRAWN FR
AUTHOR DCP	REPORT 15657
DATE 16 DEC 88	PLAN No SAa 5035

8562-70



RECENT — ALLUVIUM

UNCONFORMITY

PROTEROZOIC

- WEATHERED BASEMENT
- MAFIC SCHIST (Biotite - magnetite - quartz)
- BIOTITE - MAGNETITE - QUARTZ GNEISS
- K - FELDSPAR - QUARTZ - MAGNETITE - BIOTITE GNEISS

py Pyrite

1st Pkg to 28 Dec '88

CRA EXPLORATION PTY LIMITED

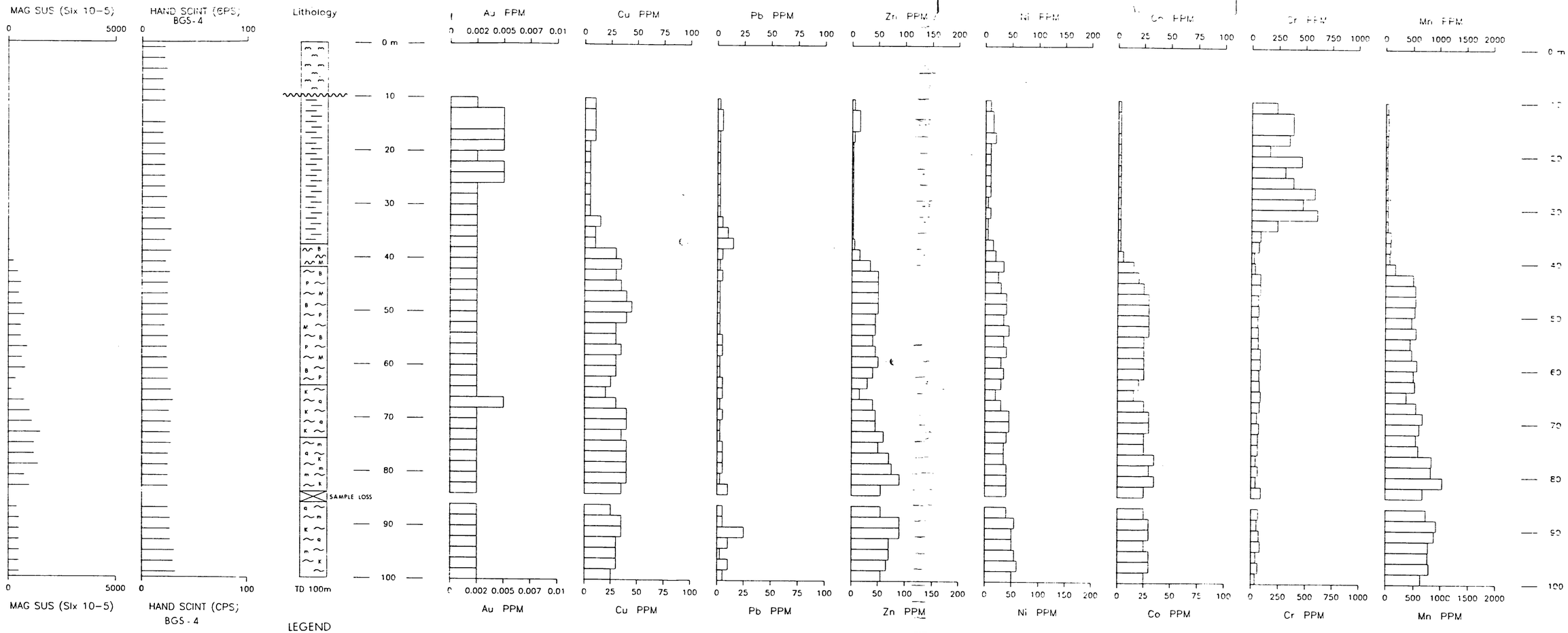
MT. CHRISTIE EL 1524 – SA

BAR-3 Prospect

Drillhole Logs – PD88MC4

REFERENCE BARTON SH5309	
SCALE 1:500	DRAWN FR
AUTHOR DCP	REPORT 15657
DATE 16 DEC 88	PLAN No SAc 5040

8562-71



LEGEND

RECENT — ALLUVIUM

UNCONFORMITY

PROTEROZOIC — WEATHERED BASEMENT

MAGNETITE - BIOTITE SCHIST

BIOTITE - PLAGIOCLASE - QUARTZ - MAGNETITE GNEISS

K - FELDSPAR - QUARTZ GNEISS

MAFIC GNEISS

8562-72

CRA EXPLORATION PTY LIMITED

MT. CHRISTIE EL 1524 – SA

BAR-4 Prospect

Drillhole Logs – PD88MC5

REFERENCE BARTON SH5309	
SCALE 1:500	DRAWN FR
AUTHOR DCP	REPORT 15657
DATE 16 DEC 88	PLAN No SAa 5041

FINAL REPORT - 1990

Total Field Magnetic Contour Map (X2)

Anomaly Location 1:250,000

Photo Interpretation - Channel Study

8562-73

MAP 3

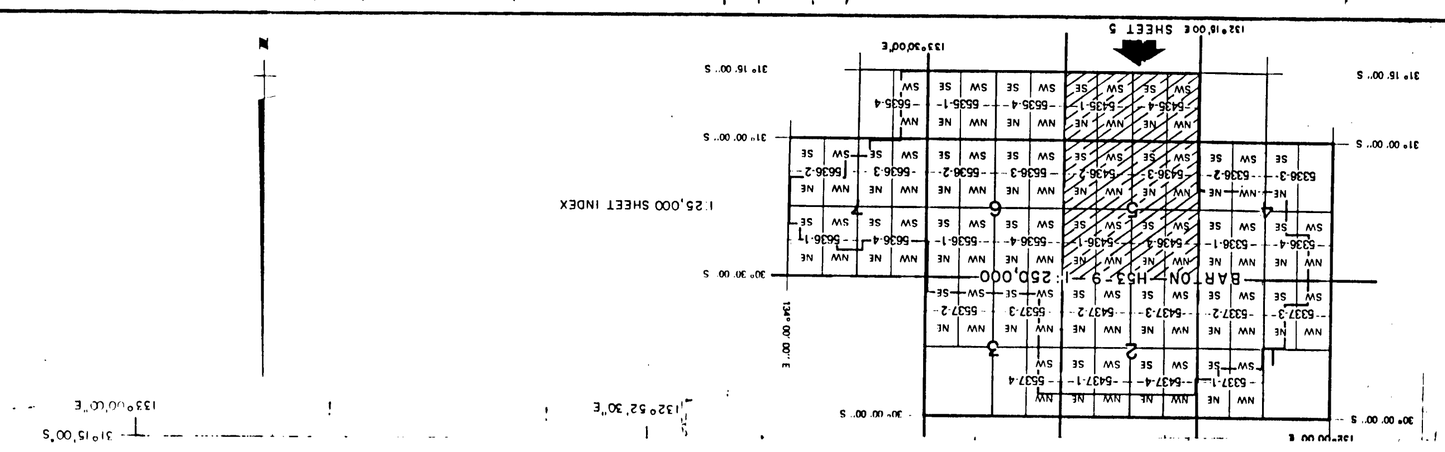
STOCKDALE PROSPECTING LIMITED

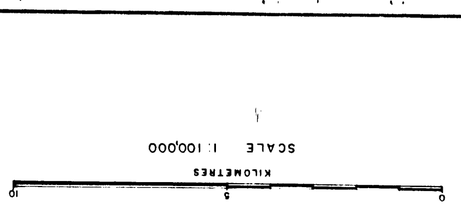
BARTON H53-9

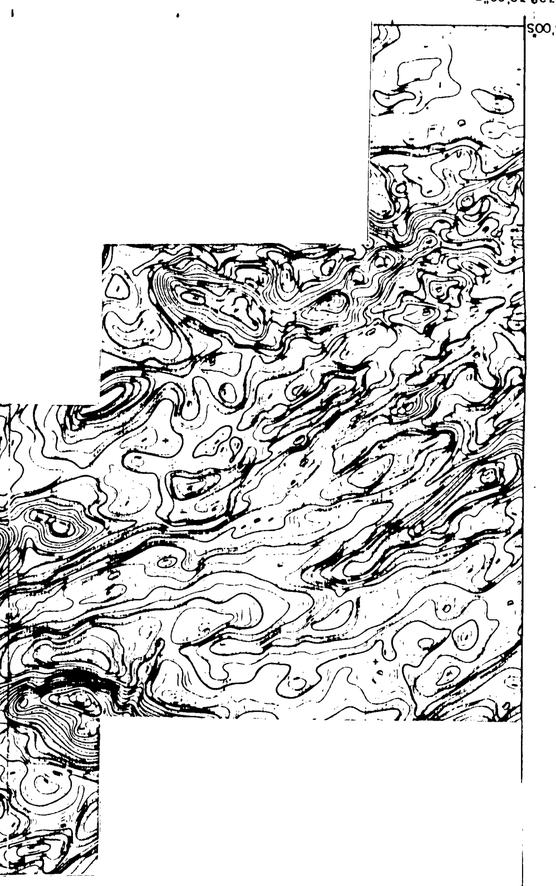
TOTAL FIELD MAGNETIC CONTOUR MAP SHEET 5 OF 7

SEL 1612 B
SEL 1554

Compiled: Aerodata | Drawn: | Date: MAY '82 | Scale: 1:100,000



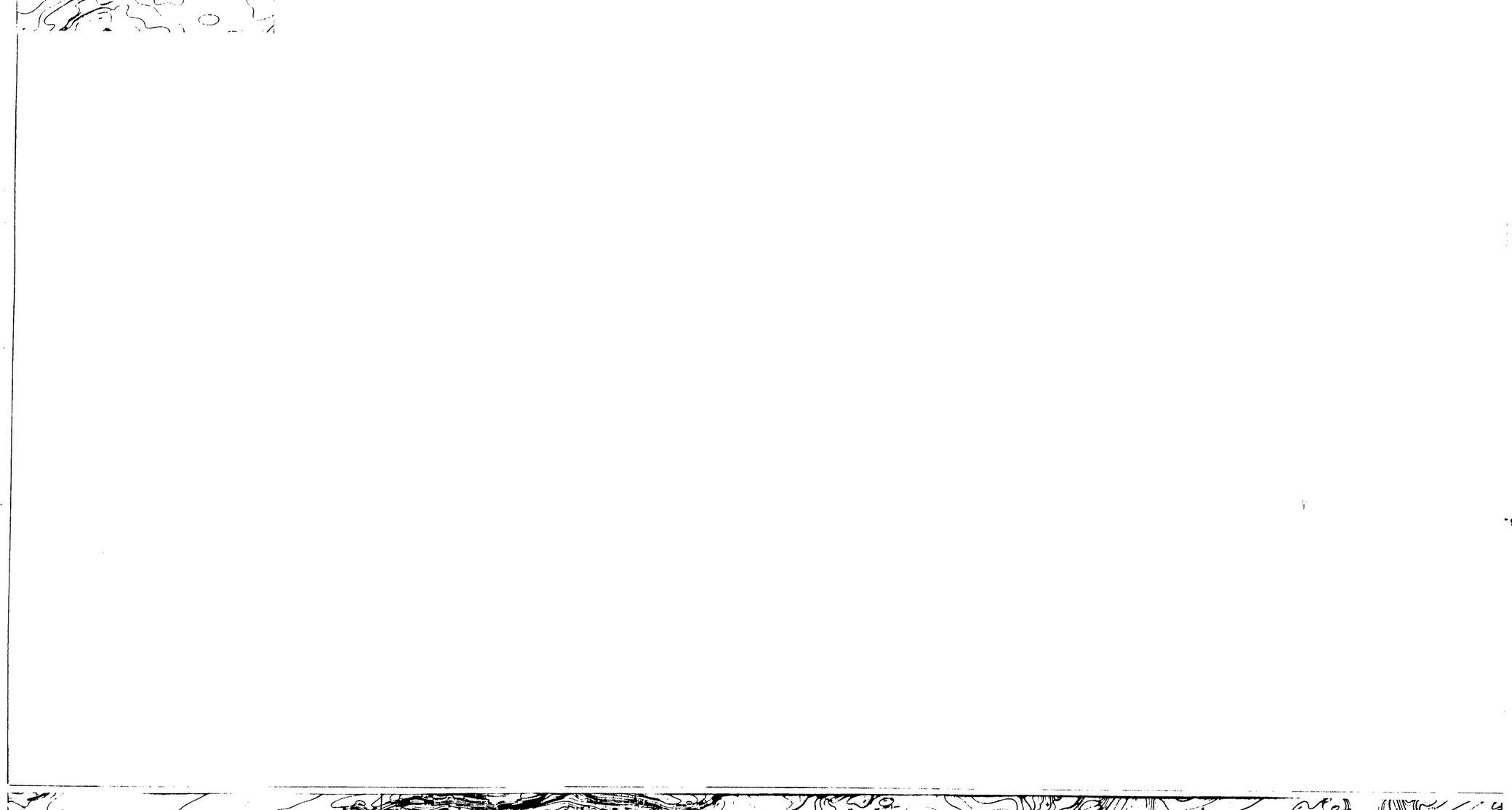






NOTE : This map is a compilation of 1:25,000 scale maps 5435-1,4 and 5436-1 to 4, by Aerodata Services P/L, drawn Dec.'81

This map overlays SEL 1609 B Regional Magnetic Interpretation, by H. Rutter, July '82



8562-73

8562-74

PART OF SHEET 3

30°30'00"S

SHEET 6

30° 45' 00" S

31° 00' 00" S

31° 15' 00" S

133° 00' 00"

133° 30' 00" E

This map overlays SEL 1613 - Regional Magnetic Interpretation by H. Rutter, July '82

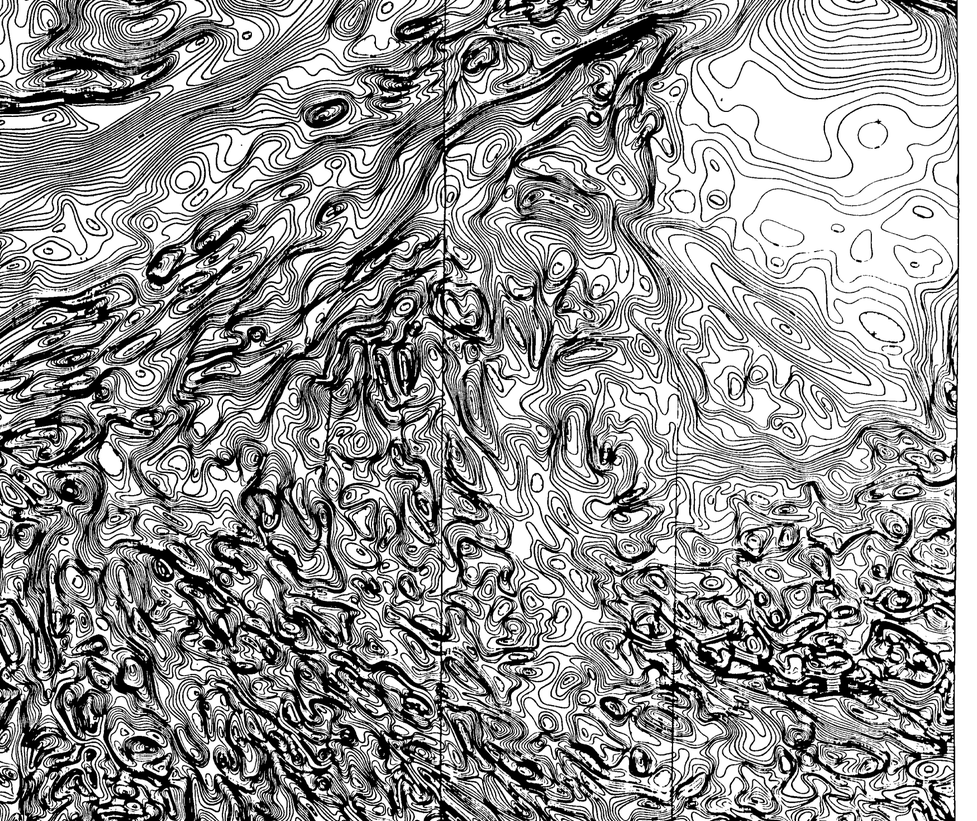
For location refer to SEL 1614

0 5 10

KILOMETRES

SCALE 1: 100,000

NOTE: This map is a compilation of 1:250,000 scale maps 5535-1, 4 and 5536-1 to 4, by Aerodata Services P/L, drawn Dec. '81



STOCKDALE PROSPECTING LIMITED

BARTON/TARCOOLA H53-9/10

TOTAL FIELD MAGNETIC CONTOUR MAP

SHEET 6 & PART 3

MAP 4

Compiled AERODATA
Drawn
Date MAY 82
Scale 1:100,000
Revised
SEL 1613 B

8562-74

8562-75

133° 30'

E.L. 1151

31°00'

T N

LOCATION MAP

132°

133° 30'

30°

BARTON H53-9

1150

1151

1146

31°

FOWLER H53-13

32°

0 5 10 15 20 kms

8562-75

MAP 5

STOCKDALE PROSPECTING LIMITED

SOUTH AUSTRALIA

BARTON - TARCOOLA

ANOMALY LOCATIONS

Final Report Oct 90 SFL

Compiled	HRR
Drawn	ADS
Date	8/90
Scale	1:250 000
Revised	
SEL 3926	

8562-76

132° 15' 30' 45' 133°

30°

30° 05'

15'

30° 25'

30'

45'

E.L. 1152

E.L. 890

E.L. 1149

E.L. 1153

E.L. 1150

E.L. 1151

E.L. 898

Pans

ridge

Railway

Carpentaria 1093

LEGEND

- d — Depression
- h — Topographic high
- Direction of slope
- p — Pan
- WO1, 37 — Drillhole location (S.P.L.)
- A —— B — Topographic Profile locations (Refer SEL 2019)
- Crustal discontivity
- 32,44 — Carpentaria drill hole locations.

0 5 10 15 kms

8562-76

MAP 7

STOCKDALE PROSPECTING LIMITED

BARTON H53-9 PART OF

PHOTO INTERPRETATION
BARTON AREA
CHANNEL STUDY

Compiled	I.J.
Drawn	I.J.
Date	OCT '83
Scale	1:250,000
Revised	Dec 83
SEL 2029	

Final Report Oct '96