MACMAHON
CONSTRUCTION
PTY. LTD.

Civil Engineers &
Earthmoving
Contractors

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FIRST AND FINAL

REPORT

ON

E.L. 4917

PROGRAM AND EXPENDITURE

FOR YEAR 1

09-09-87 TO 08-09-88

OPEN FILE
CR89/061

INTRODUCTION

E.L. 4917 is mainly flat area known as Paddy's Plain, lying within the Macdonnell Ranges, approximately 80km ENE of Alice Springs. The area of 14 blocks was applied for on 20-11-1985 and was granted on the 09-09-1987 for a period of six years.

Interest in the mineral potential of the area arose because of it's proximity to the Arltunga and White Range Goldfields which lie almost adjacent to the north and northeast and because of some minor mineral occurences within or adjacent to E.L. 4917. It was felt that the soil cover of the plain could be concealing important deposits of gold or basemetals.

Reconnaissance showed that B.I.F.'s occured in the area. These were mapped by means of a detailed ground magnetic survey. Geochemical prospecting was also undertaken and some anamalous samples were collected.

Selected areas of interest were costeaned. One gossanous zone was geophysically surveyed by the EM 37 method.

No significant mineral deposit or prospect was found.

Whereas the area has not been exhaustively explored, the large geophysical and geochemical effort required to investigate the rest of the plain is not considered justified by results to date and hence the area will be surrendered.

LOCATION AND ACCESS

The licence area is located approximately 105km by road northeast of Alice Springs via Ross River Highway and Arltunga Tourist Road. Ross River Highway is a sealed bitumen road whilst Arltunga Tourist Road is an unsealed gravel road. Access can be gained at most times of the year although 4WD may be required during wet periods.

CLIMATE

The climate of Central Australia is arid, charecterised by low, highly variable annual rainfall and by seasonal variations in temperatures. Relative humidity is low and evaporation high throughout the year.

Rainfall is seasonal, with most occurring in Summer during localised and sporadic thunderstorms.

Summer temperatures are high with almost ten days per month reaching 39 degrees or higher.

Winter day temperatures are warm (around 20 degrees) but night temperatures are cold (around 5 degrees).

GEOLOGY

Use was made of the Arltunga Harts Range 1:100,000 geological map prepared by the BMR 1984.

This shows the area of the plain to be occupied by quartzo-felspathic gneisses of the Arunta Block, including thin amphibolites, with large wedges of Heavitree Quartzite encroaching from the east and west at the southern edge of the plain, causing strong topography. The southern most part of the licence consists of garnet - sillimanite - biotite gneisses, with amphibolite.

MINERALIZATION

Various minerals were found to exist within the E.L. although in small quantities.

Minerals detected or observed were copper, gold, lead, zinc, silver and asbestos.

WORK UNDERTAKEN

A. AERIAL PHOTOGRAPHS.

Previous aerial photography at scale 1:8,000 was collected. Airsearch Mapping P/L were then contracted to cover areas of the E.L. not previously covered, at a similar scale to previous works.

B. GEOPHYSICS.

In January 1988, a grid system was installed in the Northern half of the licence. This was then surveyed with ground magnetics. The area covered measured approximately 7km by 3.6km. North - South control lines were surveyed approximately 1km apart depending on visibility and east-west lines 200 metres apart were read at stations 20m apart.

After corrections, the readings were plotted and contoured at 100nt intervals. A copy of the resulting contour plan is attached.

The plan showed less features than expected. Two relatively linear B.I.F. anomalies 1.2km apart, running parallel and roughly north-south, dominate the pattern. There is a kink in the middle of each of these linear features and some dislocation and complication of the eastern B.I.F. line.

E.M. 37 geophysic survey was carried out in this area of dislocation, mainly because some gossan with slightly anomalous silver had been found here and because Macmahon was using the services of Sydney based Geoterrex P/L in the Alice Springs area at the time.

A loop 600m x 200m was laid out, using the ground magnetic grid co-ordinates and 5 east-west lines varying from 500m to 700m long were surveyed. Although strong loop effects were registered, no true anomalies were detected.

C. GEOCHEMISTRY

Geochemistry was restricted to rock chip sampling, either of surface float or of materials exposed in costeaning.

Some surface samples were collected in the course of the magnetic survey described above, and the others during reconnaissance. Three anamalous locations were discovered. Using the ground magnetic grid co-ordinates, these were at 4700w 800s
3740w 1800s
2700w 2600s

Fresh sulphide-bearing siliceous mineralization with assays up to 3.75g/t gold, 6% copper, 15% lead, 2500ppm zinc and 925ppm silver was found at the first location (4700w 800s).

Extensive costeaning showed that the mineralization occured as a narrow discontinuous lens about 15cm thick and about 40m long.

At the second site (3740w 1800s), costeaning found similar gossan to that occuring in float, with silver in the order 3-4 ppm, and minor copper or zinc values, all <500ppm.
As described above, an E.M. 37 survey discounted the presence of any significant sulphide body here. The third anomaly at 2700w 2600s (350ppm cu) was not followed up.

D. COSTEANING

The company's Kato 1220 excavator was used as a prime exploration tool. It proved to be a very suitable method on Paddy's Plain because the in-site weathered Arunta Block rock units generally occur within 1 metre of the surface, and rarely deeper than 3 metres. Incidentally, this shallow depth of cover discounted any likelihood of a major alluvial goldfield in the fenil drainage from Arltunga and White Range.

Four zones were costeaned with east-west lines placed on the ground magnetic grid system and averaging 60m in length.

The costeans were geologically scanned for gossan, quartz - veining and structure. No significant features were observed. A set of 4 channel samples were collected but assays showed them to be barren.

EXPENDITURE

Under the terms of being granted E.L. 4917 a minimum amount of $7,500 was to be expended in carrying out exploration during year.

The expenditure for year 1 totalled $28,500 being made up of the following-

Licence Research	$1,000
Licence Inspection	$8,000
Aerial Photography	$3,200
Geophysics	$3,500
Assaying	$ 800
Drafting	$ 500
Costeaning	$8,000
Overheads	$3,500
TOTAL	$28,500

SURRENDER

E.L. 4917 Was surrendered in November 1988.

ATTACHMENTS

A. Plan - E.L. location.

B. Plan - Ground Magnetic Contours.

C. Plan - Costean Locations.

D. E.M. 37 - Loop plan and survey profiles.

E. Assay results.

23°28'

Arltunga Stock

To Atnarpa H.S.

6300W 5400W 4700W 3700W 2700W 1800W 1200W 0600W

00S 1000S 2000S 3000S 3600S

Motor cross Track

EL 4917

EL 5270

To Alice Springs

134° 37'

134° 41'

23° 32'

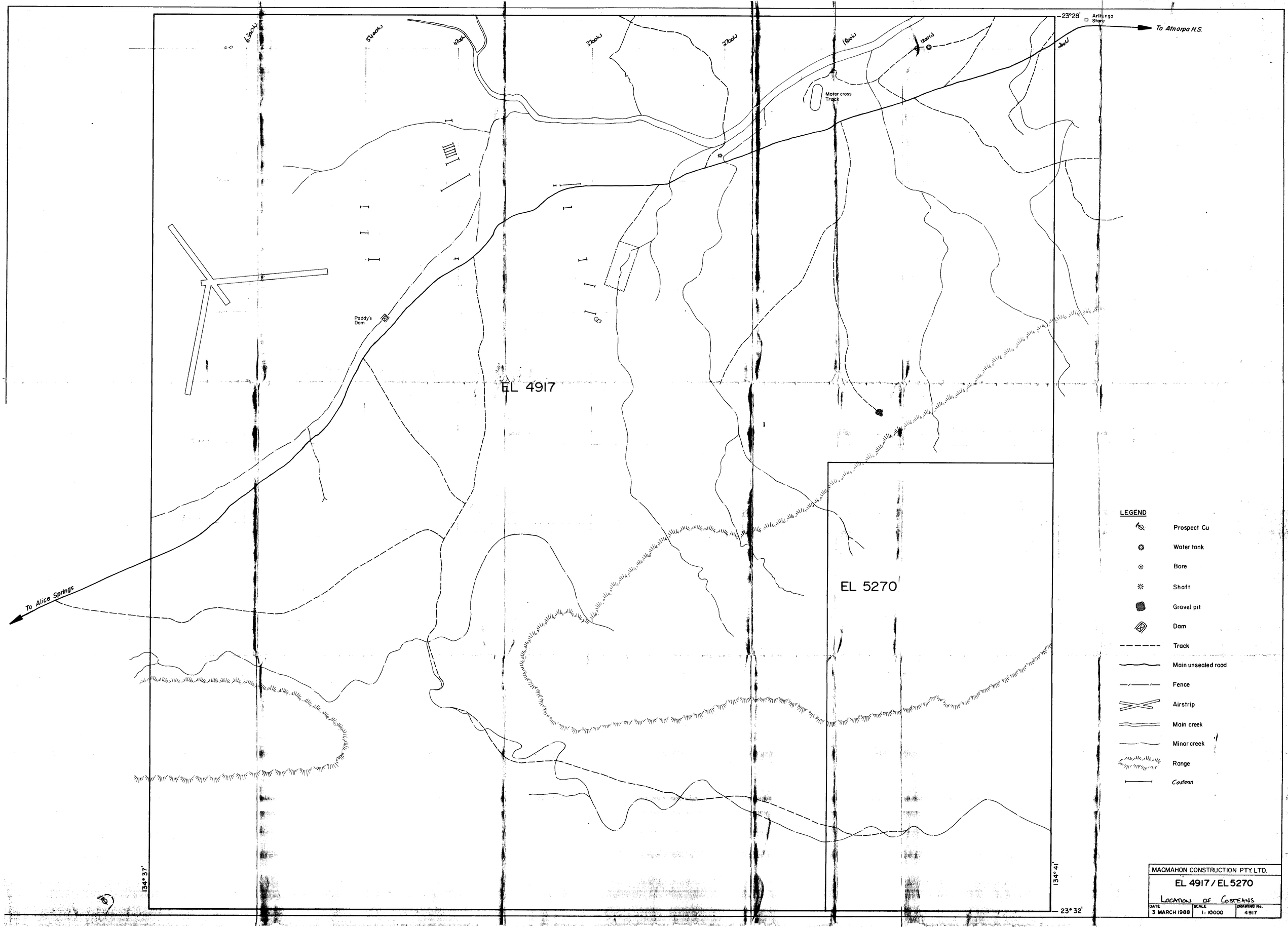
LEGEND

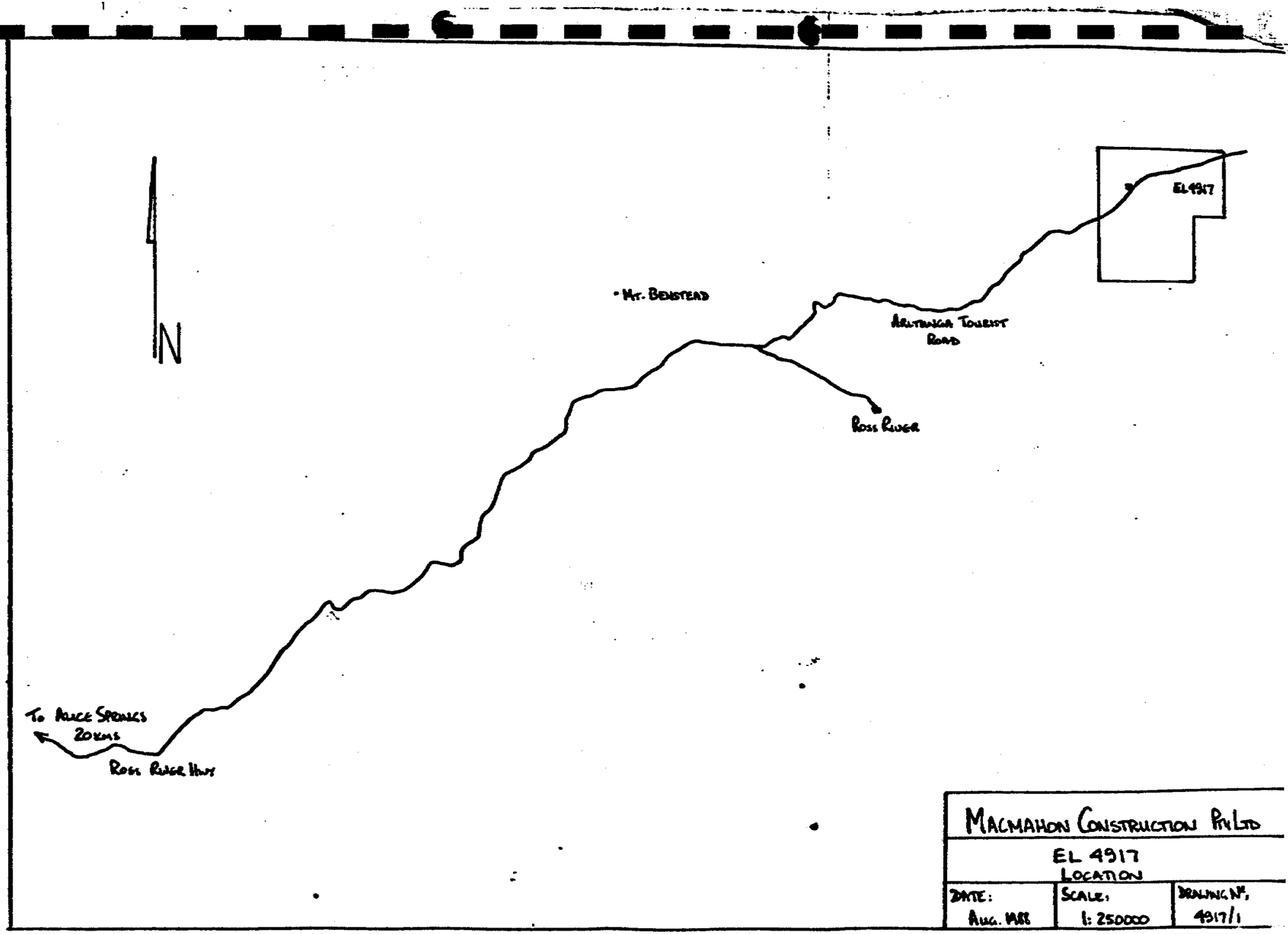
- Prospect Cu
- Water tank
- Bore
- Shaft
- Gravel pit
- Dam
- Track
- Main unsealed road
- Fence
- Airstrip
- Main creek
- Minor creek
- Range

MACMAHON CONSTRUCTION PTY. LTD.

EL 4917 / EL 5270
GROUND MAGNETIC CONTOURS

DATE	SCALE	DRAWING No.
3 MARCH 1988	1: 10000	4917

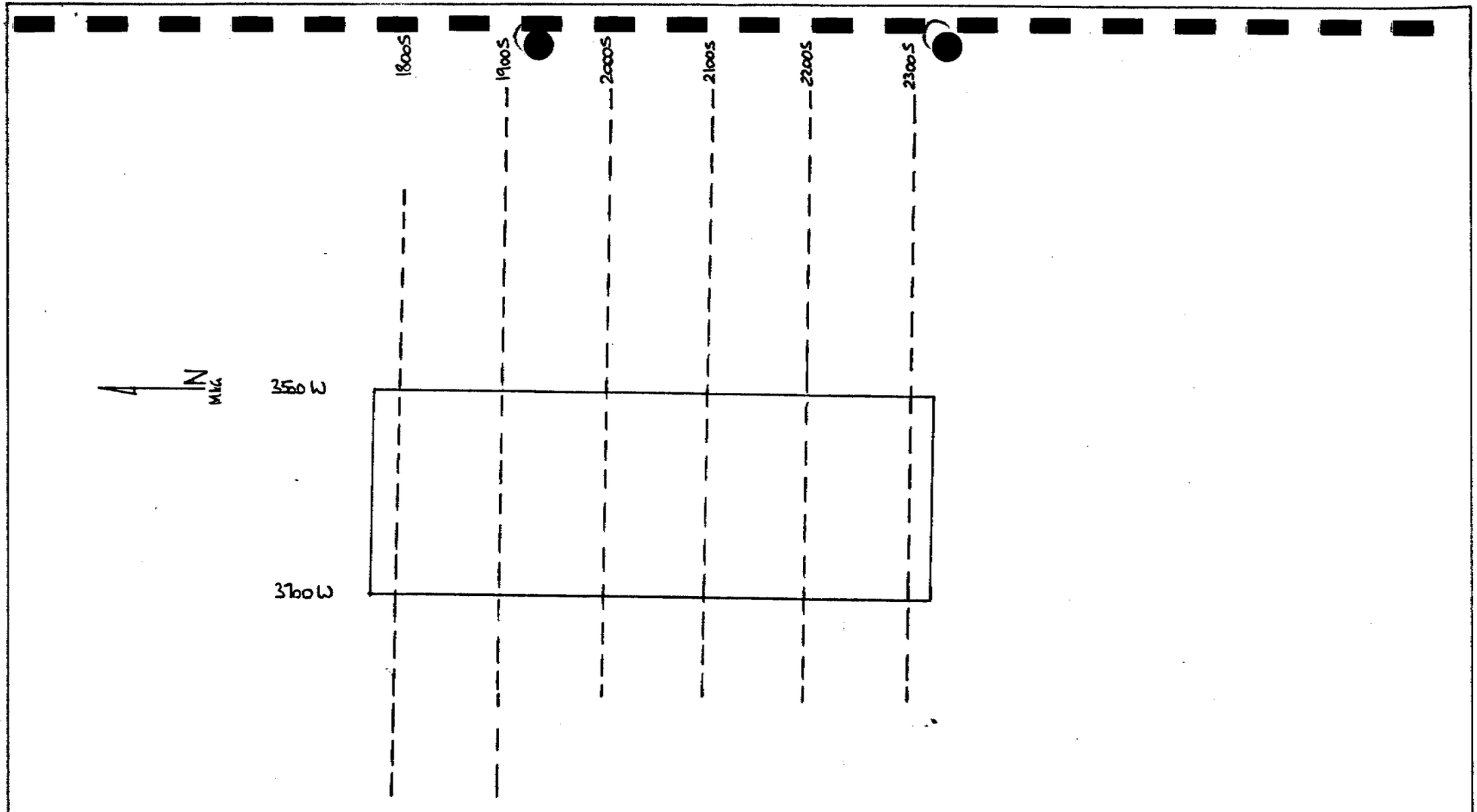

23°28'
Arltunga Store
To Atnarpa H.S.
6300N
5400N
4700N
3700N
3700N
1600N
1100N
3800N
Motor cross Track
Paddy's Dam
EL 4917
EL 5270
To Alice Springs
134° 37'
134° 41'
23° 32'
LEGEND
Prospect Cu
Water tank
Bore
Shaft
Gravel pit
Dam
Track
Main unsealed road
Fence
Airstrip
Main creek
Minor creek
Range
Costean
MACMAHON CONSTRUCTION PTY. LTD.
EL 4917 / EL 5270
Location of Costeans
DATE 3 MARCH 1988
SCALE 1: 10000
DRAWING No. 4917



MACMAHON CONSTRUCTION Pty Ltd

EL 4917
LOCATION

DATE:	SCALE:	DRAWING No.
Aug. 1988	1: 250000	4917/1



NOTES:

EM37 SURVEY LINES
READINGS @ 50m INTERVALS

LOOP

SCALE (METRES)

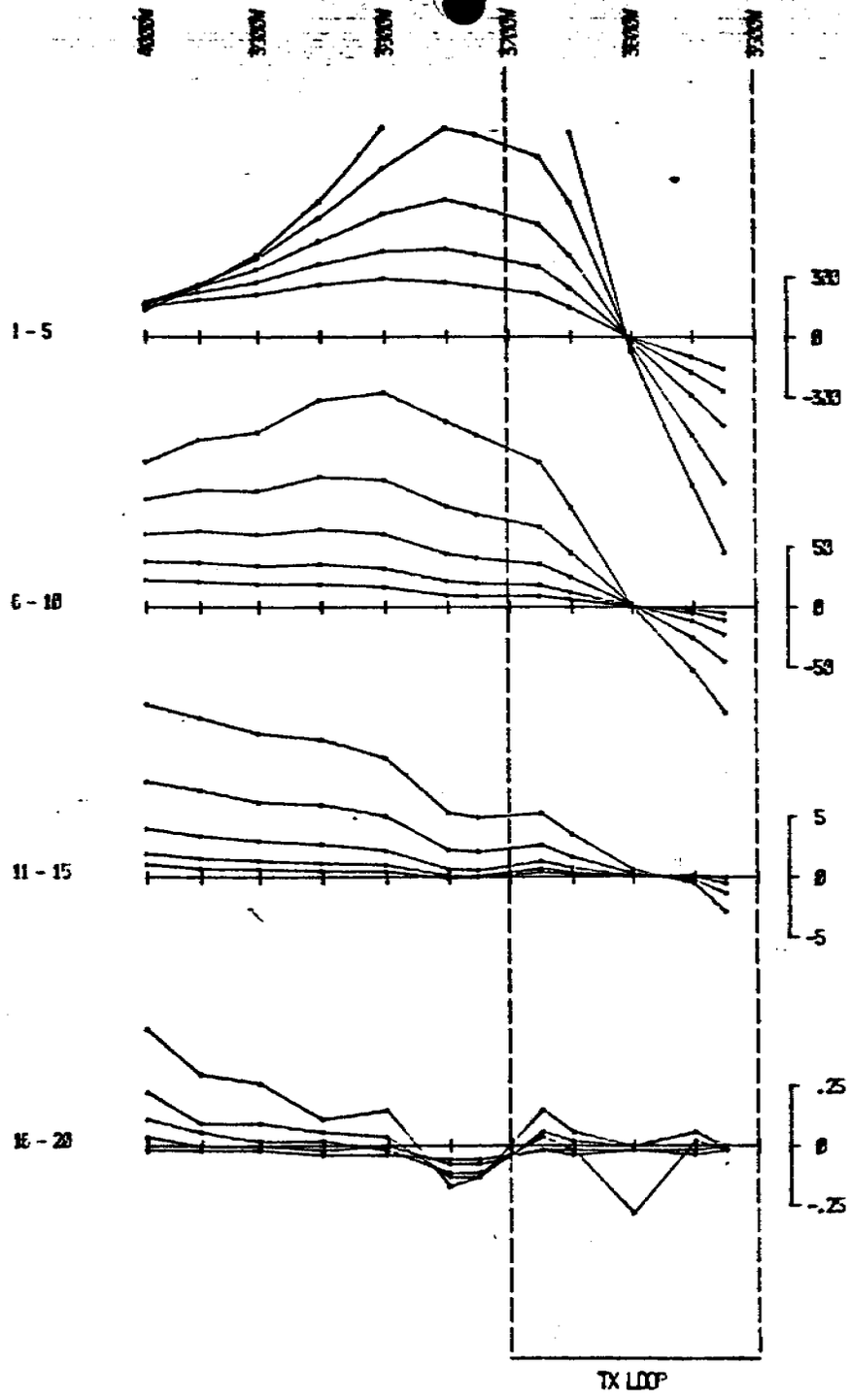
MACMAHON CONSTRUCTION PTY LTD

EL 4917

EM 37 TRANSMITTER SURVEY LAYOUT

DATE	SCALE	DRAWING Nº
JUNE 1988	AS SHOWN	4917/c2

HORIZONTAL COMPONENT B (X)



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED B SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

TX LOOP SIDES	: 017755 035800
	: 023255 035700
TX LOOP SIZE	: 550 m X 200 m
TX TURN OFF TIME	: 230 microsecs.
FIRST GATE TIME	: 80.5 microsecs.
CURRENT	: 10.0 amps
FREQUENCY	: 25 Hz.
INTEGRATION TIME	: 256 cycles
SYNC MODE	: CRYSTAL
HORIZONTAL SCALE	: 1:5000
SURVEYED BY	: IBG
DATE	: 16/06/1999

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT NO 4-96

CLIENT : MacMahon

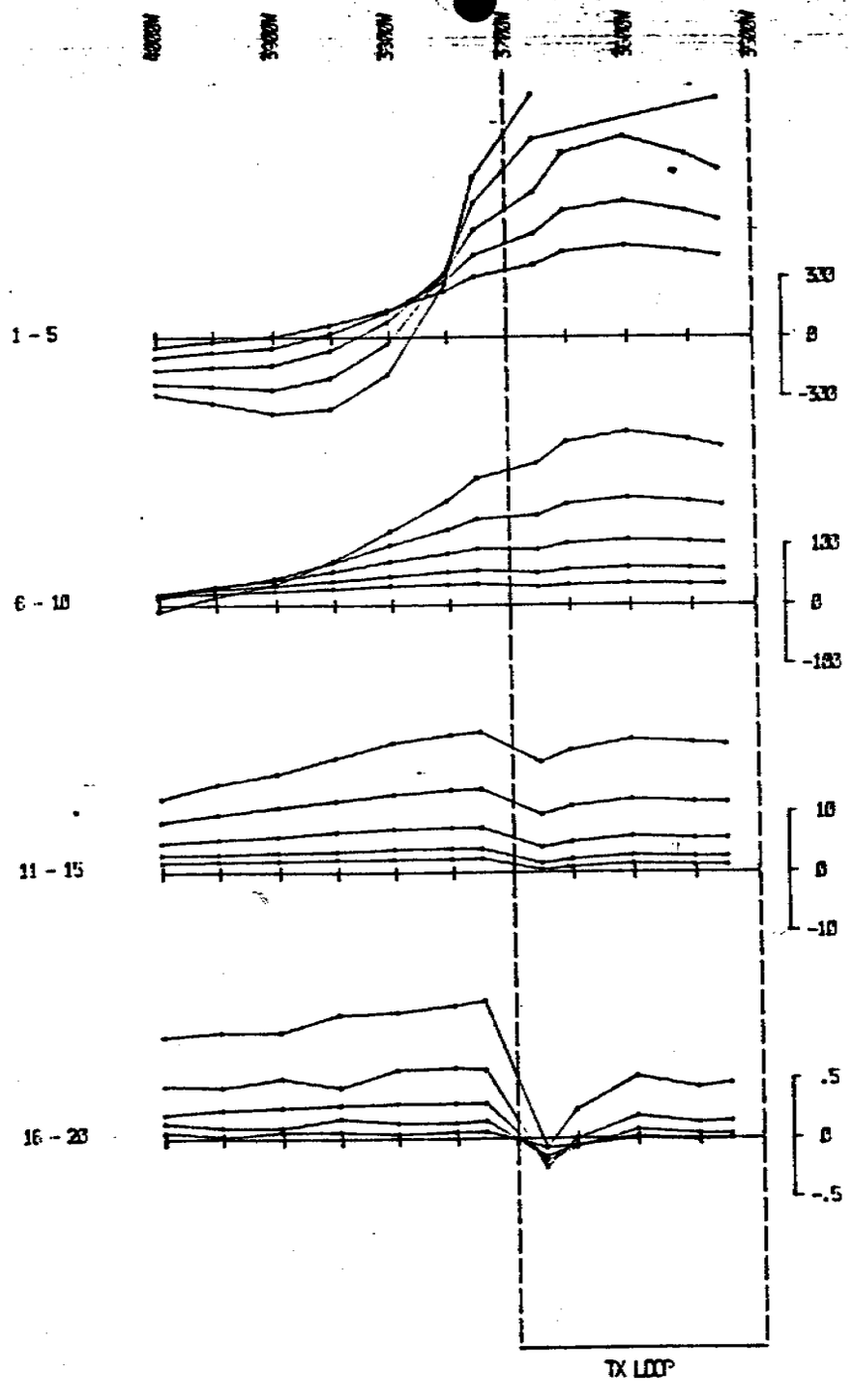
PROJECT : Arltunga

AREA : Alice Springs

LINE : 018005 X

TX LOOP : 7

VERTICAL COMPONENT B (Z)



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

TX LOOP SIDES	:	817755 8500W
	:	823255 8500W
TX LOOP SIZE	:	550 m X 200 m
TX TURN OFF TIME	:	252 microsecs.
FIRST GATE TIME	:	83.5 microsecs.
CURRENT	:	16.0 amps
FREQUENCY	:	25 Hz.
INTEGRATION TIME	:	256 cycles
SYNC MODE	:	CRYSTAL
HORIZONTAL SCALE	:	1:5000
SURVEYED BY	:	IBG4
DATE	:	16/06/1993

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT NO 4-932

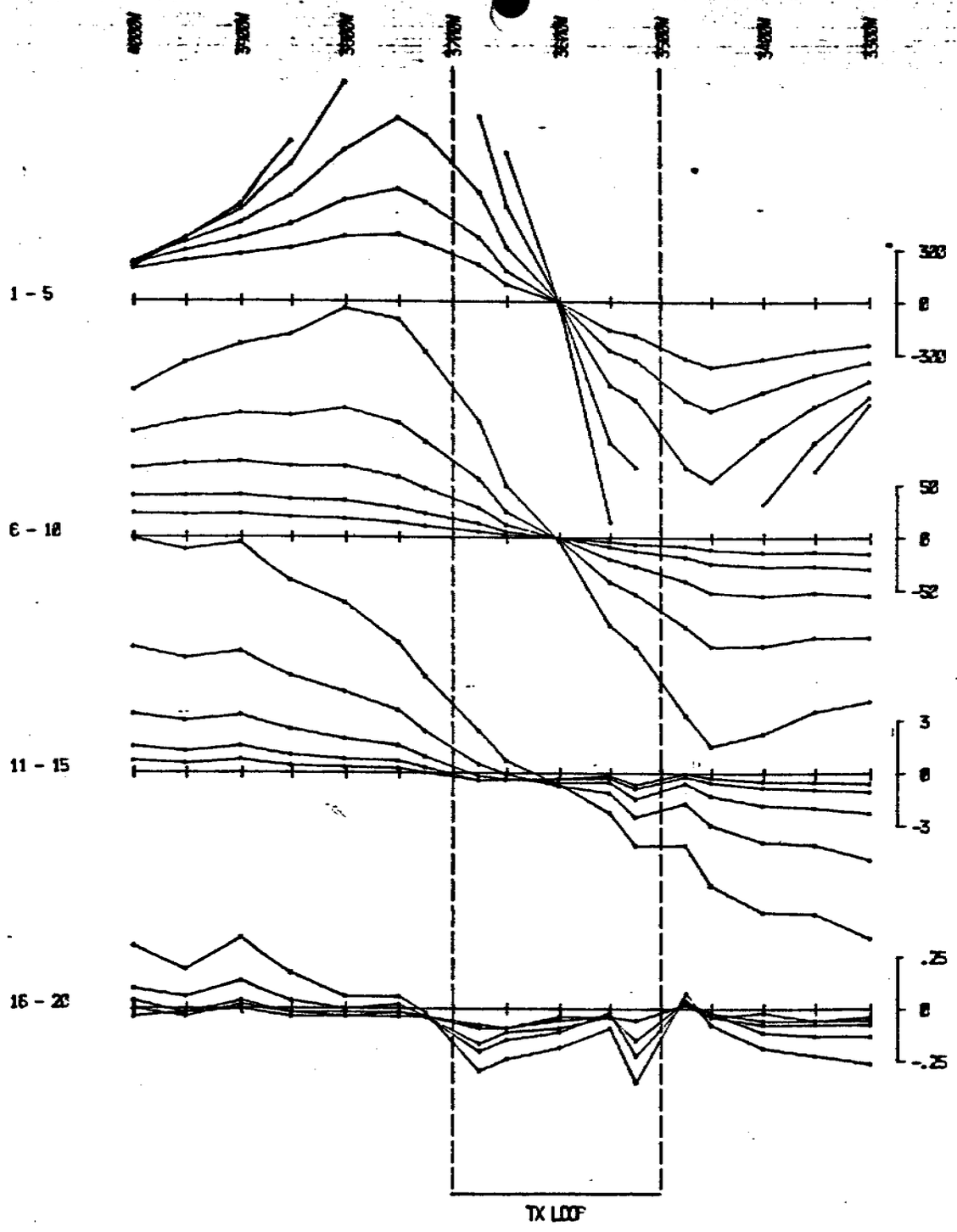
CLIENT : MacMahon

PROJECT : Arltunga

AREA : Alice Springs

LINE : 819305 Z

TX LOOP : 7



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

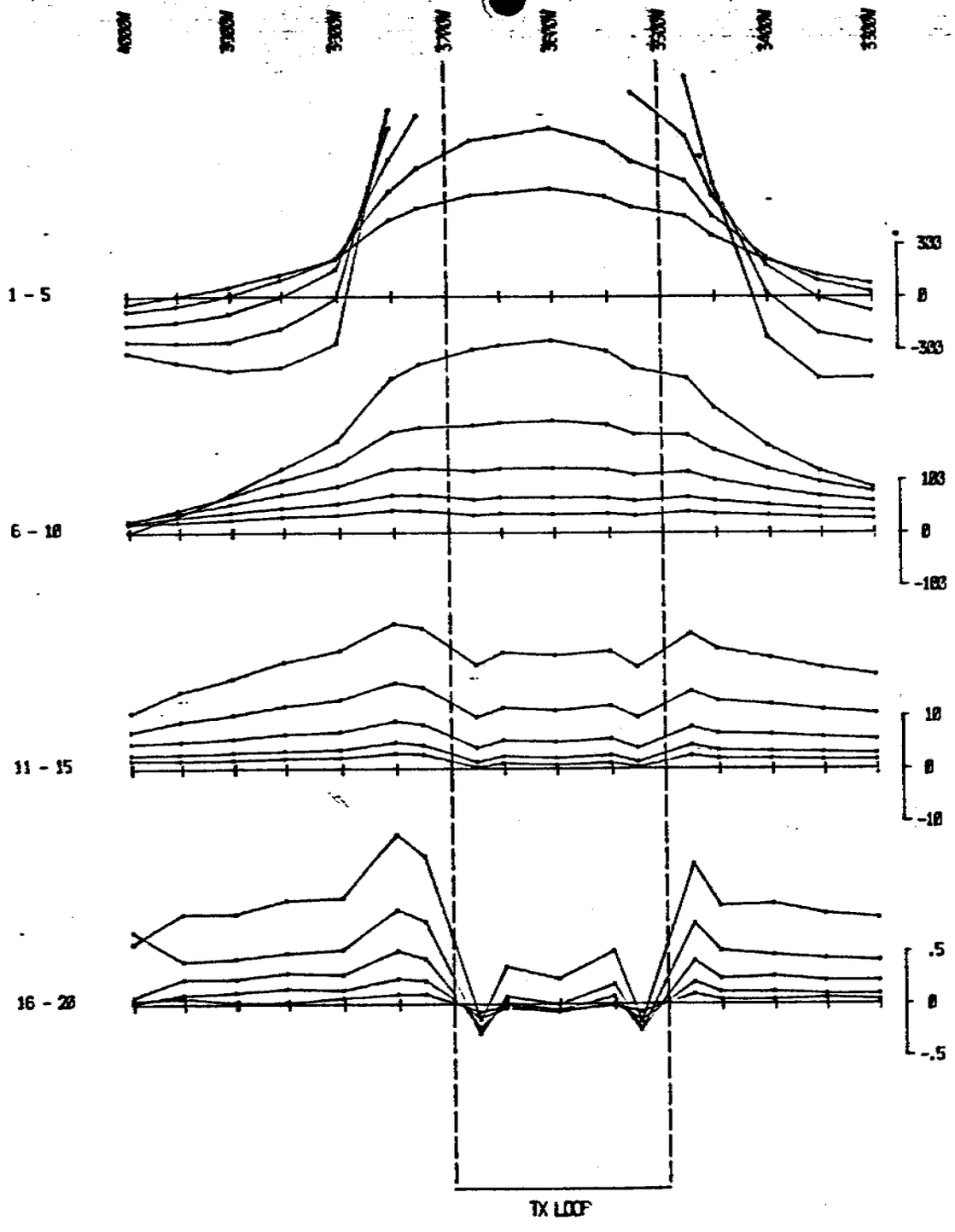
TX LOOP SIDES	: 8177SS 8350W
	: 8232SS 8370W
TX LOOP SIZE	: 550 m X 200 m
TX TURN OFF TIME	: 230 microsecs.
FIRST GATE TIME	: 89.5 microsecs.
CURRENT	: 16.0 amps
FREQUENCY	: 25 Hz.
INTEGRATION TIME	: 256 cycles
SYNC MODE	:
HORIZONTAL SCALE	: 1:5000
SURVEYED BY	: IBDP
DATE	: 16/06/1998

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT NO. 4-992

CLIENT	: MacMahon
PROJECT	: Arltunga
AREA	: Alice Springs
LINE	: 8198SS X
TX LOOP	: 7

VERTICAL COMPONENT B (Z)



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED B SECONDARY FIELD

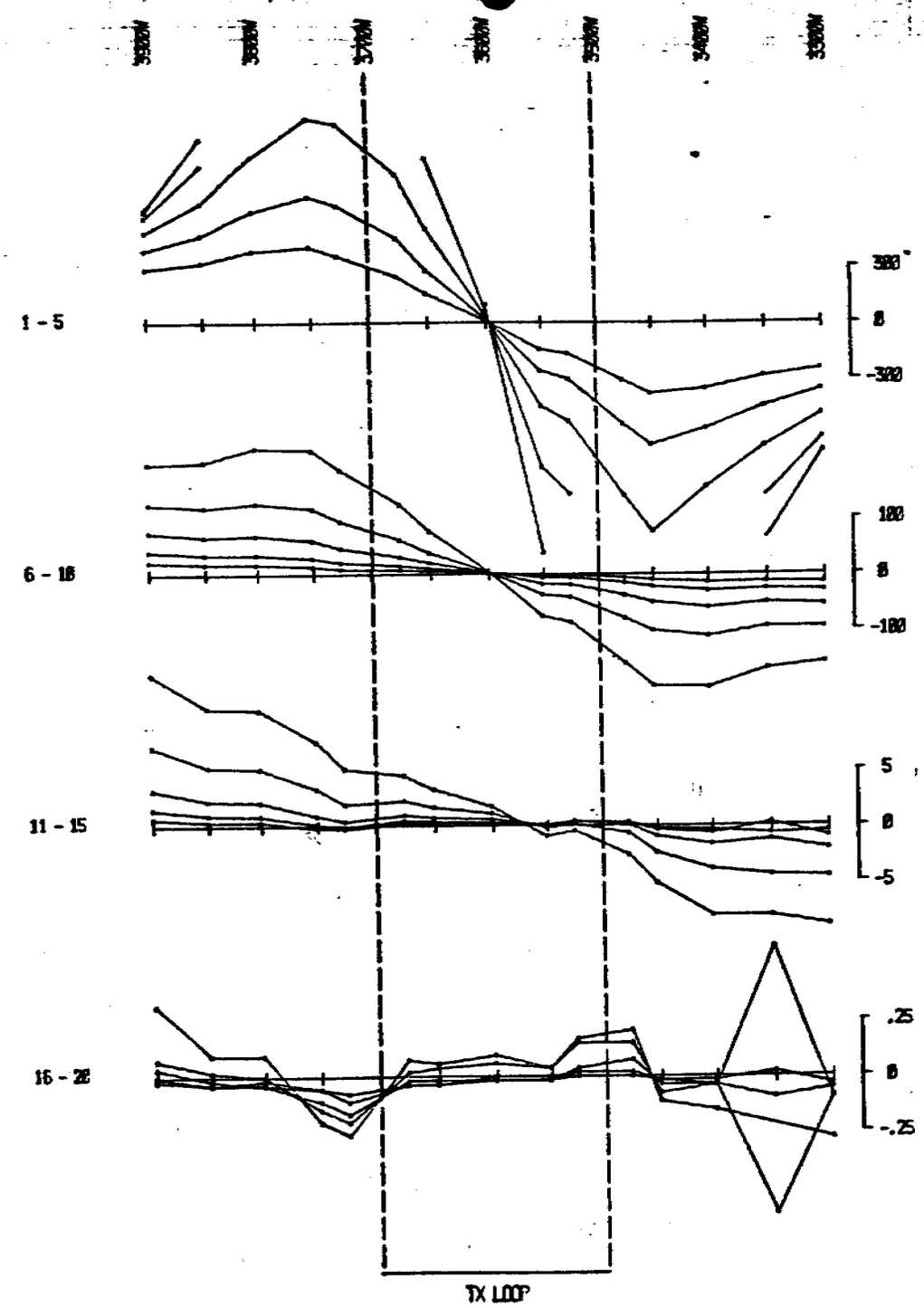
TIME DERIVATIVE OF FLUX DENSITY (B)

TX LOOP SIDES	:	017755 03200W
	:	023255 03700W
TX LOOP SIZE	:	550 m X 200 m
TX TURN OFF TIME	:	250 microsecs.
FIRST GATE TIME	:	88.5 microsecs.
CURRENT	:	16.0 amps
FREQUENCY	:	25 Hz.
INTEGRATION TIME	:	256 cycles
SYNC MODE	:	
HORIZONTAL SCALE	:	1:5000
SURVEYED BY	:	IBDP
DATE	:	18/08/1988

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT A-992

CLIENT	:	MacMahon
PROJECT	:	Arltunga
AREA	:	Alice Springs
LINE	:	019000 Z
TX LOOP	:	7



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (dB)

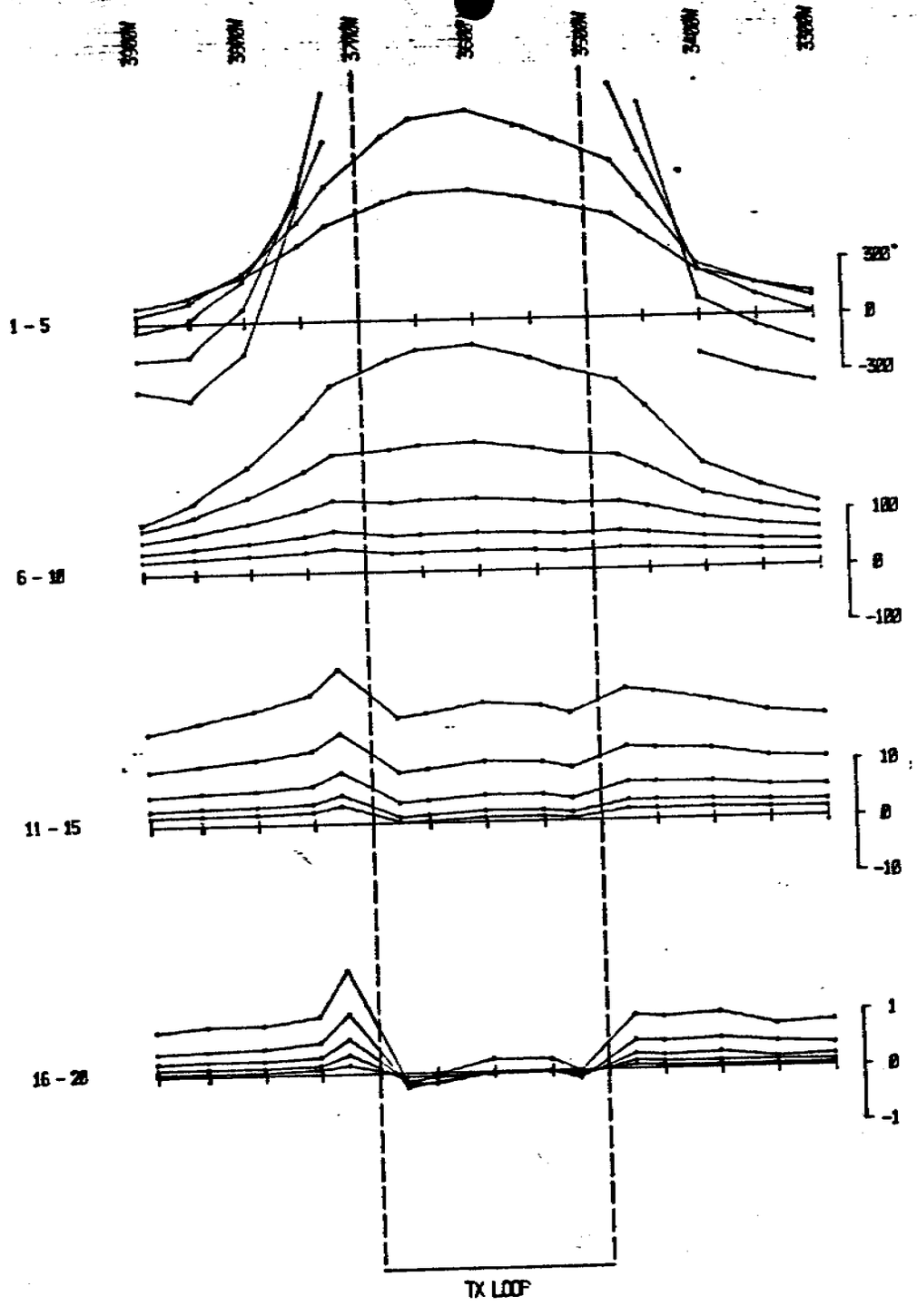
TX LOOP SIDES	:	01775S 03500W
	:	02325S 03700W
TX LOOP SIZE	:	550 m X 200 m
TX TURN OFF TIME	:	230 microsecs.
FIRST GATE TIME	:	88.5 microsecs.
CURRENT	:	16.0 amps
FREQUENCY	:	25 Hz.
INTEGRATION TIME	:	256 cycles
SYNC MODE	:	
HORIZONTAL SCALE	:	1:5000
SURVEYED BY	:	IBDP
DATE	:	18/06/1988

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT NO 4-982

CLIENT	:	McMahon
PROJECT	:	Alkunga
AREA	:	Alice Springs
LINE	:	02800S X
TX LOOP	:	7

VERTICAL COMPONENT B (Z)



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED SECONDARY FIELD

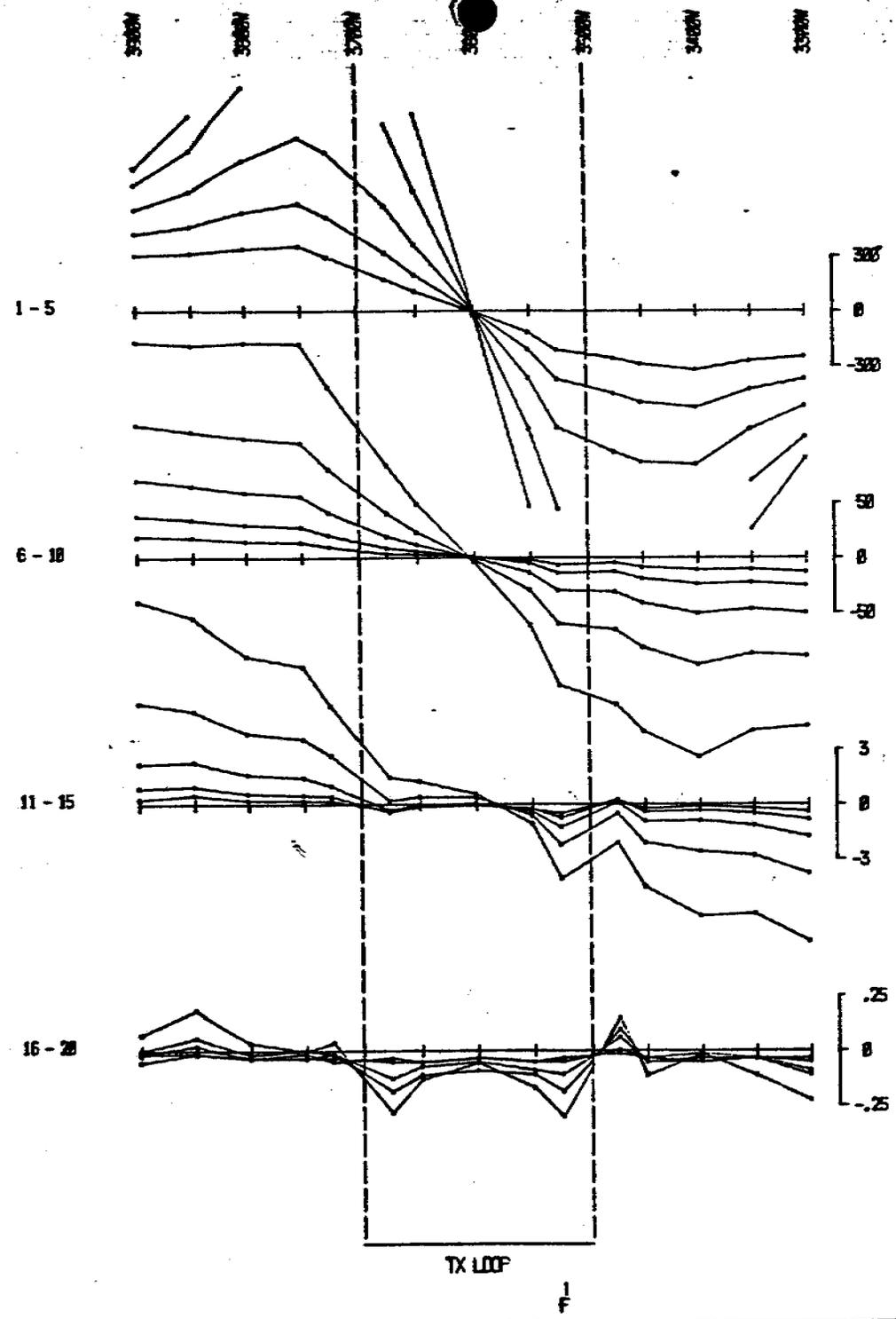
TIME DERIVATIVE OF FLUX DENSITY (dB)

TX LOOP SIDES	: 017755	03500E
	: 022255	03700W
TX LOOP SIZE	: 550 m X 200 m	
TX TURN OFF TIME	: 230 microsecs.	
FIRST GATE TIME	: 88.5 microsecs.	
CURRENT	: 16.0 amps	
FREQUENCY	: 25 Hz.	
INTEGRATION TIME	: 256 cycles	
SYNC MODE	:	
HORIZONTAL SCALE	: 1:5000	
SURVEYED BY	: IBDA	
DATE	: 18/05/1988	

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT A-982

CLIENT	: MacMahon	
PROJECT	: Arltunga	
AREA	: Alice Springs	
LINE	: 02800S	Z
TX LOOP	: 7	



EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED B SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

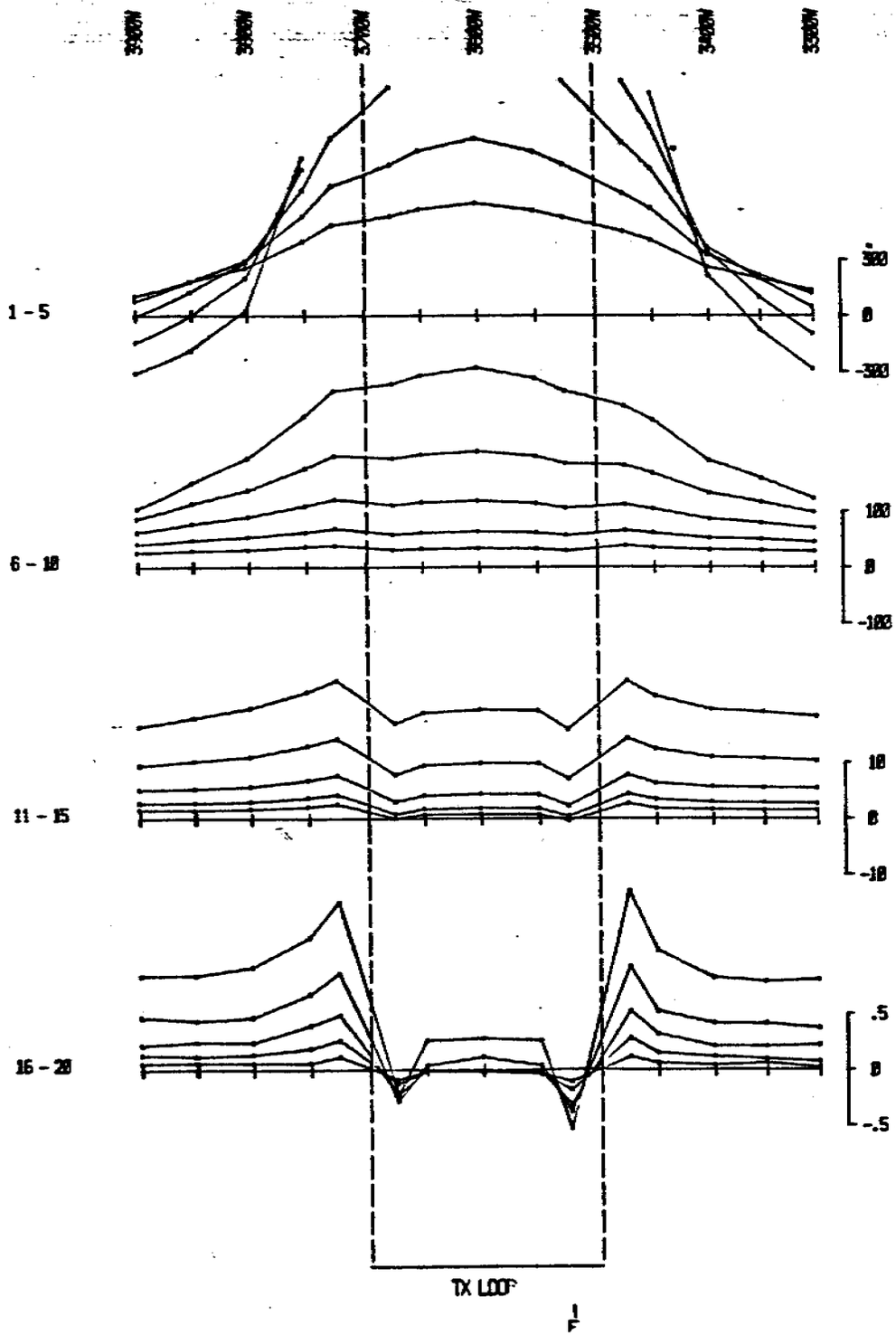
TX LOOP SIDES	: 817755 8500N
	: 823255 8700N
TX LOOP SIZE	: 550 m X 200 m
TX TURN OFF TIME	: 250 microsecs.
FIRST GATE TIME	: 88.5 microsecs.
CURRENT	: 16.0 amps
FREQUENCY	: 25 Hz.
INTEGRATION TIME	: 256 cycles
SYNC MODE	:
HORIZONTAL SCALE	: 1:5000
SURVEYED BY	: IBG
DATE	: 16/06/1998

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT N 4-982

CLIENT	: MacMahon
PROJECT	: Alkunga
AREA	: Alice Springs
LINE	: 821005 X
TX LOOP	: 7

VERTICAL COMPONENT B



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

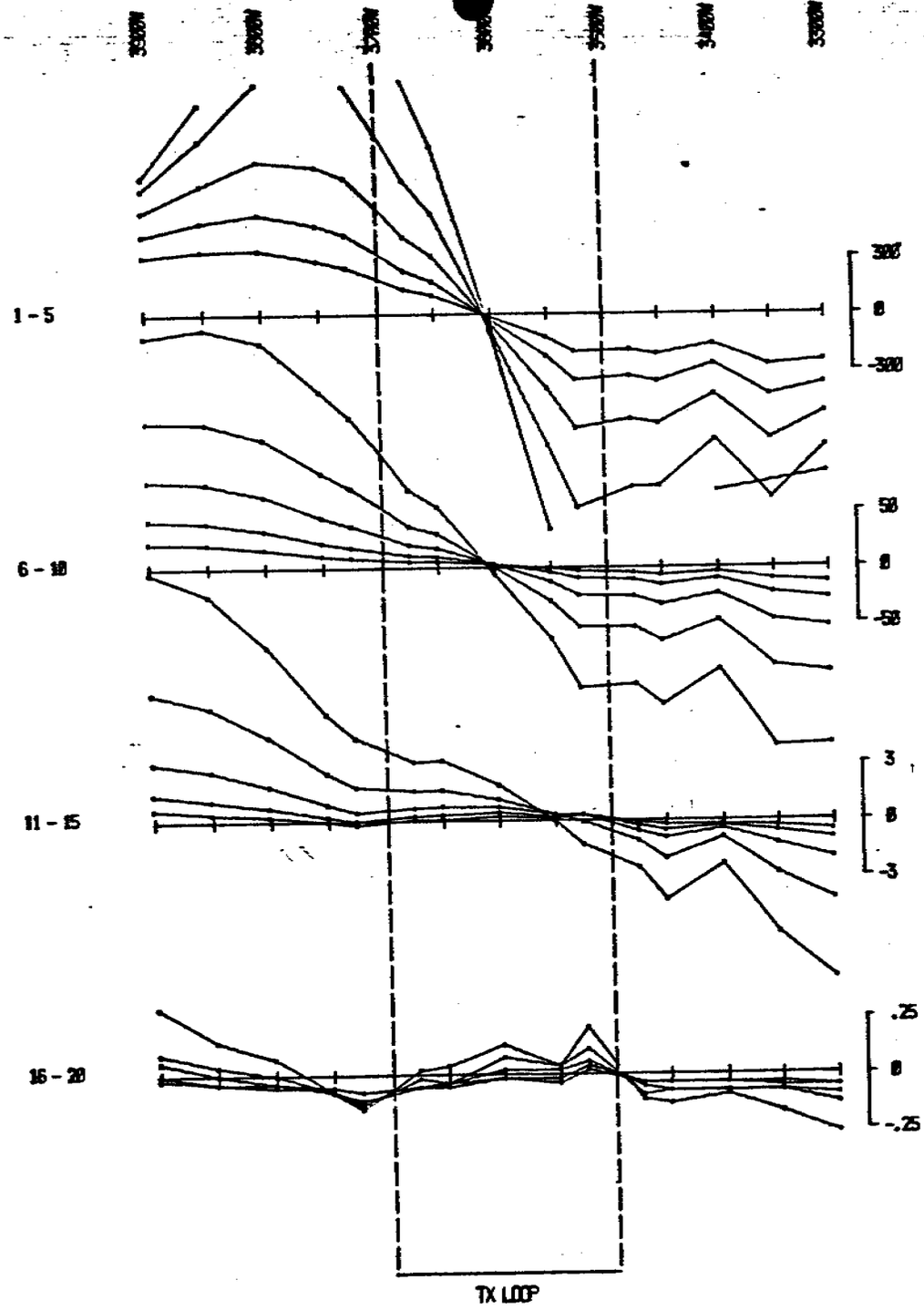
TX LOOP SIDES	:	017755 03500N
	:	023255 03700N
TX LOOP SIZE	:	550 m X 200 m
TX TURN OFF TIME	:	250 microsecs.
FIRST GATE TIME	:	88.5 microsecs.
CURRENT	:	16.0 amps
FREQUENCY	:	25 Hz.
INTEGRATION TIME	:	256 cycles
SYNC MODE	:	
HORIZONTAL SCALE	:	1:5000
SURVEYED BY	:	IBDA
DATE	:	18/06/1990

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT 4-992

CLIENT	:	MacMahon
PROJECT	:	Arltunga
AREA	:	Alice Springs
LINE	:	021005 Z
TX LOOP	:	7

HORIZONTAL COMPONENT B (X)



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

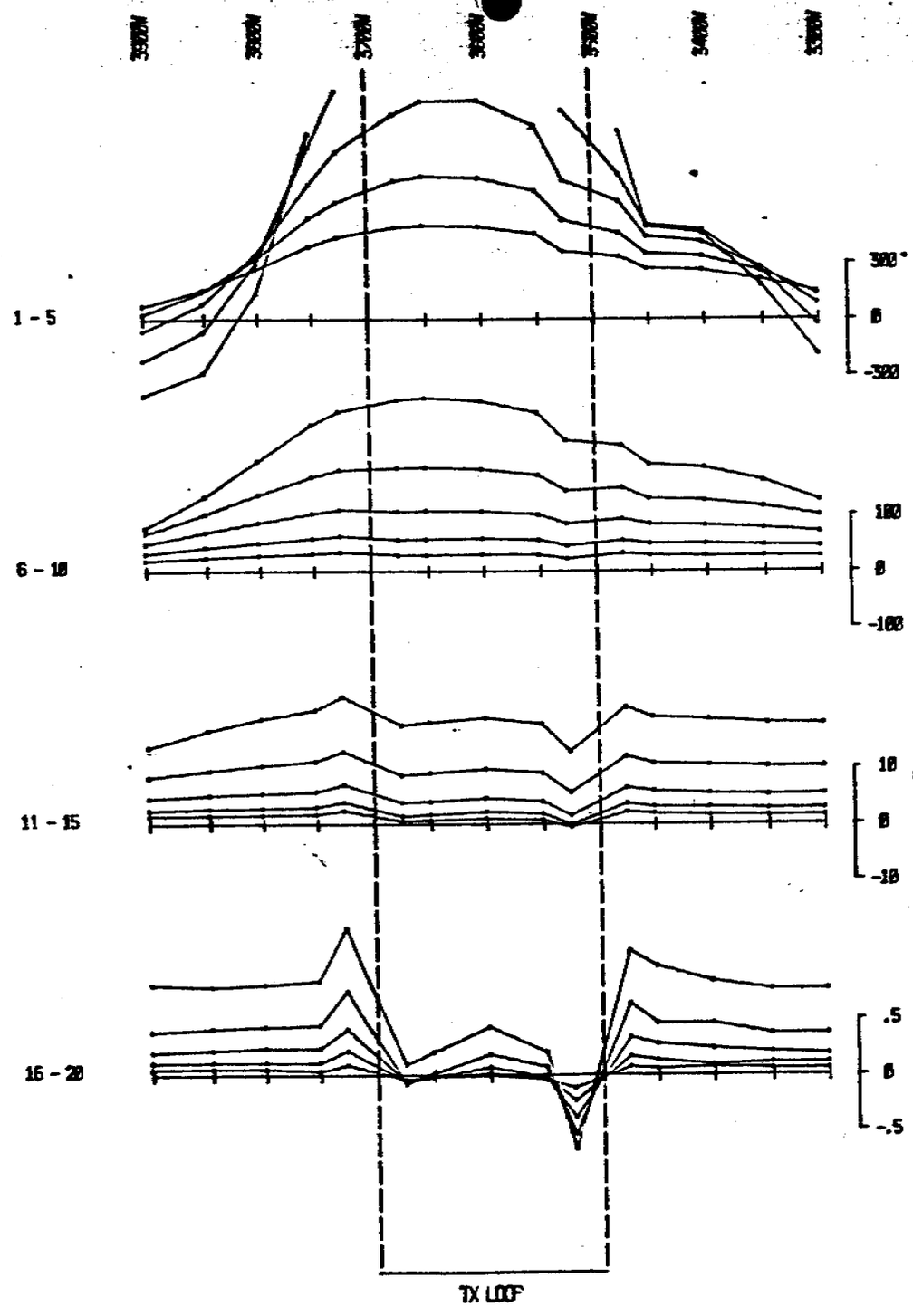
TX LOOP SIDES	: 01775S 03500W
	: 02325S 03700W
TX LOOP SIZE	: 550 m X 200 m
TX TURN OFF TIME	: 250 microsecs.
FIRST GATE TIME	: 88.5 microsecs.
CURRENT	: 16.0 amps
FREQUENCY	: 25 Hz.
INTEGRATION TIME	: 256 cycles
SYNC MODE	:
HORIZONTAL SCALE	: 1:5000
SURVEYED BY	: IGA
DATE	: 16/06/1988

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT A-982

CLIENT	: MacMahon
PROJECT	: Arlunga
AREA	: Alice Springs
LINE	: 02200S X
TX LOOP	: 7

VERTICAL COMPONENT B (Z)



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

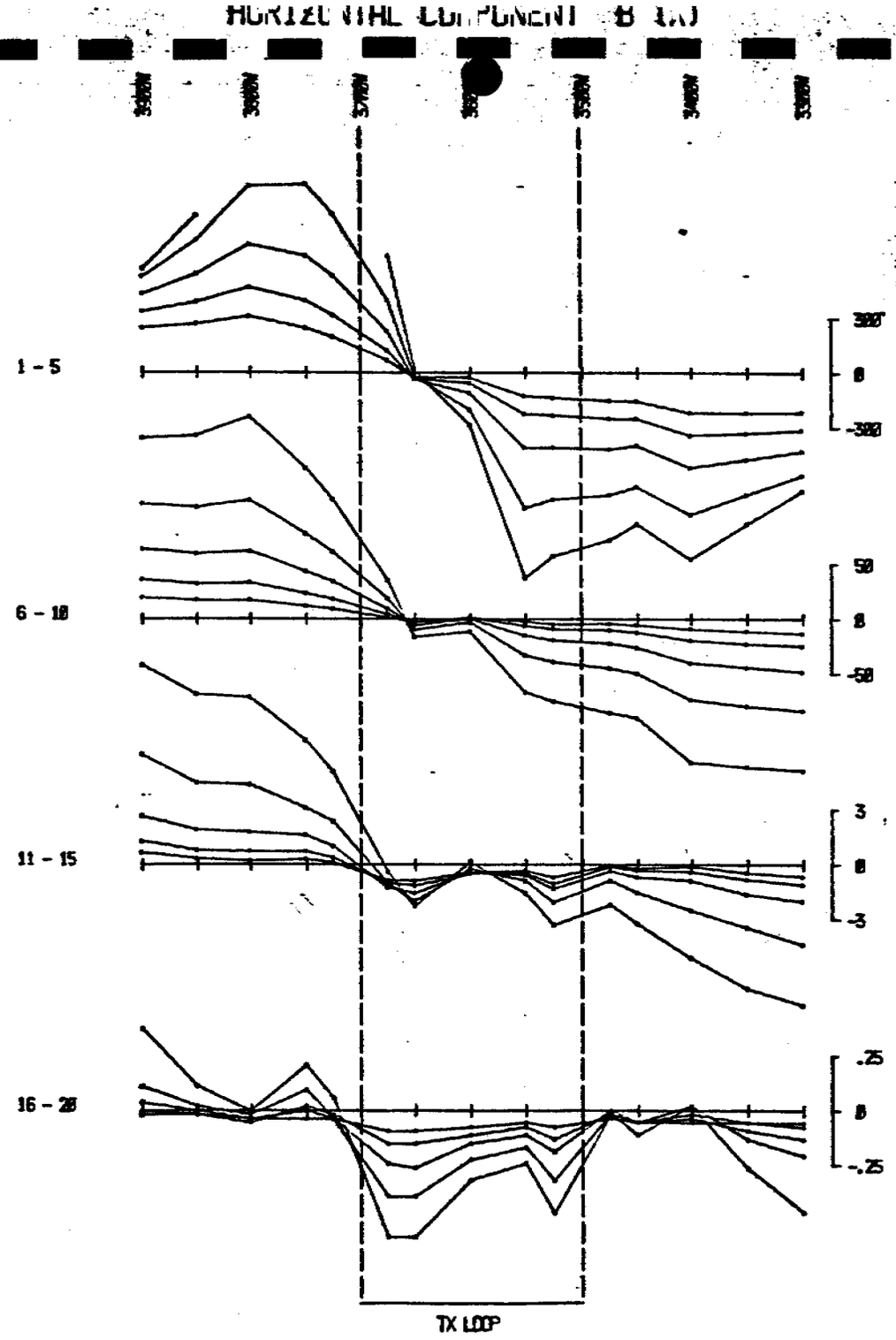
TIME DERIVATIVE OF FLUX DENSITY (dB)

TX LOOP SIDES	:	01775S 03500W
	:	02325S 03700W
TX LOOP SIZE	:	550 m X 200 m
TX TURN OFF TIME	:	230 microsecs.
FIRST GATE TIME	:	88.5 microsecs.
CURRENT	:	16.0 amps
FREQUENCY	:	25 Hz.
INTEGRATION TIME	:	256 cycles
SYNC MODE	:	
HORIZONTAL SCALE	:	1:5000
SURVEYED BY	:	IBDA
DATE	:	16/06/1988

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT NO. A-982

CLIENT	:	MacMahon
PROJECT	:	A-Itunga
AREA	:	Alice Springs
LINE	:	02200S Z
TX LOOP	:	7



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED B
SECONDARY FIELD

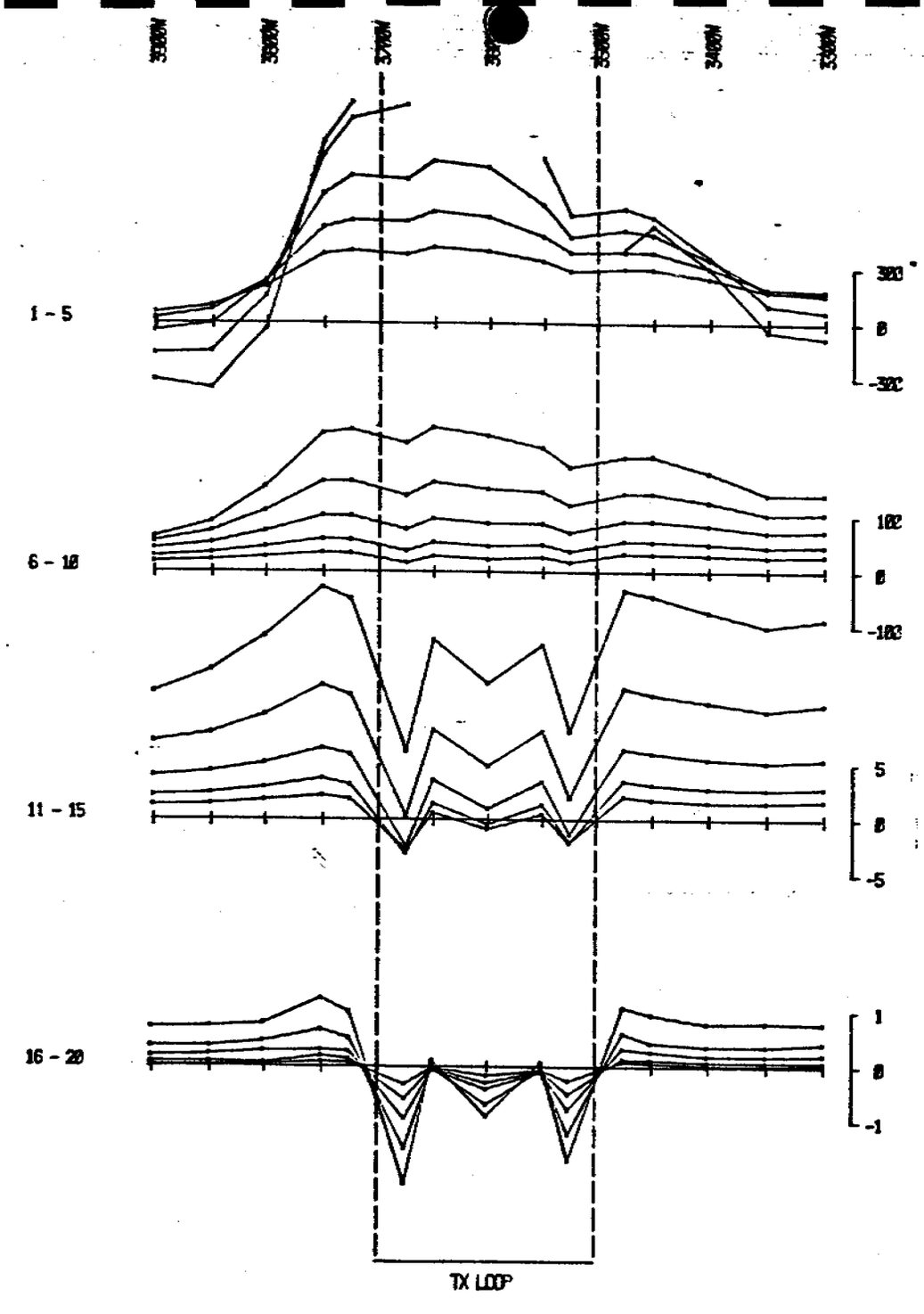
TIME DERIVATIVE OF FLUX DENSITY (dB)

TX LOOP SIDES	: 01775S 03500W
	: 02525S 03700W
TX LOOP SIZE	: 550 m X 200 m
TX TURN OFF TIME	: 250 microsecs.
FIRST GATE TIME	: 88.5 microsecs.
CURRENT	: 16.0 amps
FREQUENCY	: 25 Hz.
INTEGRATION TIME	: 256 cycles
SYNC MODE	:
HORIZONTAL SCALE	: 1:5000
SURVEYED BY	: IBG
DATE	: 16/06/1988

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT NO. 4-982

CLIENT	: MacMahon
PROJECT	: Arltunga
AREA	: Alice Springs
LINE	: 02300S X
TX LOOP	: 7



nanovolts per amp metre squared

EM-37

FIXED TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY (B)

TX LOOP SIDES	:	8177SS 83503W
	:	8232SS 83780W
TX LOOP SIZE	:	550 m X 280 m
TX TURN OFF TIME	:	230 microsecs.
FIRST GATE TIME	:	88.5 microsecs.
CURRENT	:	16.0 amps
FREQUENCY	:	25 Hz.
INTEGRATION TIME	:	256 cycles
SYNC MODE	:	
HORIZONTAL SCALE	:	1:5000
SURVEYED BY	:	IBDA
DATE	:	16/06/1988

SURVEYED AND COMPILED BY GEOTERREX PTY. LTD.

PROJECT NO. A-982

CLIENT	:	MacMahon
PROJECT	:	Arltunga
AREA	:	Alice Springs
LINE	:	8230SS Z
TX LOOP	:	7

PADDY'S PLAIN EL 4917

DATE COLLECTED: JAN 88.

Nº	SAMPLE Nº	LOCATION	SAMPLE DISCRIPTION	ASSAY RESULTS							ORDER Nº
				Cu	Zn	Ag	Au	Pb	Cu%		
	4917 SS1	1800W 1700S	Flakey, milky Qtz in meta[M]	160	40	<0.5	<0.02	<5			M34527
	SS2	1800W 2000S	Gossan - black, yellow, purple	110	220	1·0	<0.02	<5			
	SS3	1800W 2400S	Vuggy Qtz with gossan	30	10	<0.5	<0.02	<5			
	SS4	2100W 2400S	Milky Qtz in dark rock mass	15	35	<0.5	<0.02	<5			
	SS5	3000W 1700S	Qtz	10	5	<0.5	<0.02	<5			
	SS6	3500W 1700S	Lumps of shiny blck xtls (biotite)? in Qtz	40	75	<0.5	<0.02	<5			
	SS7	5400W 1700S	BIF ?	25	110	<0.5	<0.02	<5			
	SS8	5400W 1700S	Med, xlline, Fe-rich, dark shiny Qtz? grains	45	60	1·0	<0.02	<5			
	SS9	4700W 0700S	Qtz with gossan	195	130	1·0	0.02	405			✓
	SS10	5400W 1600S	Gossan with Qtz veins	25	65	1·0	<0.02	<5			
	SS11	6300W 2100S	Gossan	185	145	1·0	<0.02	<5			
	SS12	4700W 0100S	Qtz - vuggy	15	5	<0.5	<0.02	<5			
	SS13	?	Qtz in dark grey iron banded clean ground mass	205	10	1·0	<0.02	<5			
	SS14	000W 000S	v. vuggy Qtz	35	10	<0.5	<0.02	15			
	SS15	000W 1800S	(pyrite?) glistening Qtz	40	15	<0.5	<0.02	<5			
	SS16	2700W 2600S	Green black sulphide rich looking ccx xcls	350	40	1·0	0.02	<5			
	SS17	3780W 1800S	Magnetic high	45	45	2·0	<0.02	<5			
	SS18	7200W 2700S	Gossan, qtz - v. black + hdey.	145	305	<0.5	<0.02	<5			
	SS19	7100W 3200S	Qtz in weathered gneiss	30	35	<0.5	<0.02	<5			
	SS20	6400W 3200S	Hard pure black volcanic with qtz veins.	10	10	<0.5	<0.02	<5			

COMMENTS:

These samples are mineralised-looking floaters noticed by John Forwood during grid work (ground magnetics) on Paddy's Plain in January 1988.

They should be analysed for base metals (Pb, Zn, Cu, Ag, W, Sn) as well as Gold.

PADDYS PLAIN 4917 — DATE COLLECTED: 29.02.88

N°	SAMPLE N°	LOCATION	SAMPLE DISCRIPTION	ASSAY RESULTS PPM Cu	Zn	Ag	Au	Pb			ORDER N°
	4917 5521	1800S 3740W	Iron stone	40	285	3.0	<0.02	<5			M304527
	5522	1800S 3740W	Iron stone + gossan.	40	250	1.0	<0.02	<5			
	5523	shaft	Qtz from diggings	65	10	<0.5	<0.02	<5			
	5524	shaft	Schist from diggings	25	130	1.0	<0.02	<5			
			Collected by P. Forwood + M. Begley								
							Collected		12.04.88		
								by M. Begley.			
	5525	4700W 700S	Pegmatite	35	40	<0.5	<0.02	5			M304535
	5526	4700W 700S	Qtz / Qtzite ex Sulphide xls	45	15	<0.5	<0.02	115			
	5527	4700W 700S	Epidote (Qtz + Peg)	30	10	<0.5	<0.02	15			
	5528	4700W 700S	Black xls similar to Anthophyllite + lode.	25	60	<0.5	<0.02	<5			
Good sample	5529	4760W 750S	Qtz outcrop, Copper, Lead, Ironstone none sulphide?	5000 6%	2500	+51.0 +925.0	3.75	+5001 15%		*	
	5530	5250W 1900S	Gossan, Ironstone.	180	125	3.0	<0.02	500			
	5531	4760 750S	Qtz gossan.	750	270	30	0.4	3100			
							Collected	01.02.88	M. Begley		
	5532	3700W 1800S	Gossan	42	70	<1	<0.01	<5			304547
	33	" "	Iron Stone	24	8	<1	<0.01	<5			
	34	" "	Epidote	12	56	<1	<0.01	<5			
							Collected		27.05.88		M. Begley
	35	4700W 800S	Costean 5 Mineralised looking Qtz / pegmatite?	12	7	<1	<0.01	7	As 110		
	36	4700W 1600S	Qtz from surface	7	3	<1	<0.01	<5	30		
	37	4700W 1200S	Pegmatite - Sulphide colour + green (Qtz/K)	9	7	<1	<0.01	<5	<20		
	38	4700W 1500S	Gossan &	93	150	<1	<0.01	29	<20		
	39	4700W 800S	Costean 5 Mineralised look Qtz, pegmatite, Pb pos.	370	41	3	<0.01	33	<20		
	40	4700W 800S	Costean 6 Qtz? Pb Min?	9	14	<1	<0.01	<5	30		
	41	4700W 900	Costean 7 Qtz?	10	6	<1	<0.01	<5	<20		

DATE COLLECTED:

N°	SAMPLE N°	LOCATION	SAMPLE DISCRIPTION	ASSAY RESULTS ppm							ORDER N°
				Au	Cu	Pb	Zn	Ag	As		
						Collected	by	MSB	30-05-88		
	49/75542	1800W 2900S along road cutting pit	Gossan	<0.01	35	7	58	<1	45		307954
	43	1800W 2900S	Qtz - blackish ?	<0.01	10	6	8	<1	55		
	44	1800W 1800S	Qtz from costean material	<0.01	120	<5	9	<1	<20		
	45	1700W 1800S	Qtz + dark rock in reef	<0.01	160	25	36	<1	<20		
			outcrop on side of hill: poss.	~~<0.01~~	~~42~~			~~<1~~			
			source of Qtz gravels.	~~<0.01~~	~~15~~			~~<1~~			
	46	Costean 7	Qtzite with poss. ore sulphide xls	<0.01	43	35	20	<1	<20		
	47	Costean 7	Peg? Qtz with poss tourm.	<0.01	15	9	9	<1	<20		
						Collected 07.06.88. MB + RF					
	48	Costean 8 4700W 1600S	Mixture of Gossan, Qtz. Testing for possible sniff	<0.01				<1	<20		
	49	Costean 1 T/A @ 55m	Mineralised veinlet	<0.01				<1	<20		
	50	Costean 1 T/A 56 → 567m	Main Qtz reef.	<0.01				2	<20		
	51	65m	Siliceous (leached) sponge	<0.01				<1	<20		
	52	67m	Siliceous Qtz.	<0.01				<1	<20		
	53	71-71.5m		<0.01				<1	<20		
	54		Rusty green common reef rock	<0.01				<1	<20		
	55	Costean 2 T/A 73-74	Qtzite ore sulphide	<0.01				<1	<20		
	56	66m	Qtzite poss. ore sulphide	<0.01				<1	<20		
	57	59m	Main vein over 1m	<0.01				<1	<20		
	58	59/60	" " " "	0.22				16	240		
	59	60/61	" " " "	<0.01				<1	<20		
	60	49m	? Peg with Feldspar	<0.01				<1	<20		
	61	46m	Qtz vein	<0.01				<1	<20		
	62	32m	Qtz vein	<0.01				<1	<20		
	63	~31m.	Qtzite poss. sulphides & magnetite	<0.01				<1	<20		
	64	~~Costean~~	NO SAMPLE.	~~<0.01~~							
	65	Costean 3 T/A 28m	Fine grain with Qtz & Fe. Plagioclase	<0.01				<1	<20		
	66	53/54	near main vein reef.	<0.01				<1	<20		
	67	55/55.5	Qtz vein (minor) & muck.	<0.01				<1	<20		

DATE COLLECTED:

Nº	SAMPLE Nº	LOCATION	SAMPLE DISCRIPTION	ASSAY RESULTS PPM							ORDER Nº
				Au	Cu	Pb	Zn	Ag	As	I	
	19173568	Costean 3 T/A 80m	minor qtz vei	<0.01	33	15	16	<1	<20		307954
	69	Costean 4 T/A	near main reef. Hard qzite with iron?	<0.01	7	7	17	<1	<20		
	70	Costean 3700W/1400S"	Qtz vei	<0.01	8	6	12	<1	<20		
	71	3700W/1200S	Qtz vei	<0.01	5	<5	13	<1	<20		
	72	3700/1200	minor qtz vei	<0.01	8	<5	46	<1	<20		
	73	5400/1400	BIF vei	<0.01	8	<5	22	<1	<20		
	74	5400/1600	BIF vei	<0.01	17	<5	17	<1	<20		
	75	5400/1650	Qtz/BIF outcrop.	<0.01	4	<5	46	<1	<20		
								COLLECTED			21.06.88 MB
	76	3700W/1900S	BIF?	<0.01	14	<5	13	<1	30		307955
	77	3700W/2000S	Gossan from costean.	<0.01	45	<5	30	1	20		
	78	3700W/1505	Qtz float	<0.01	7	<5	8	<1	<20		
	79	3700W/1505	Qtz float plus sulphide	<0.01	375	<5	7	<1	<20		
	80	3700W/1505	Gossan + Qtz gossan	<0.01	32	17	44	<1	20		
	81	3700W/1505	Qtzite/sandstone looking er sulphide	<0.01	21	<5	3	<1	<20		
	82	Nearby old shallow shaft on side Q road	east of 3700W. Qtz with some gossan/goethite	<0.01	5	<5	2	<1	<20		
	83	"	Gossan	<0.01	45	<5	110	1	25		
	84	"	Qtz/limestone looking mineralised	<0.01	4	<5	9	<1	25		
	85	≈3760W/1850S	Gossan outcrop	<0.01	14	<5	71	1	20		
	86	=3700W/1800S	~~NO SAMPLE~~ Qtz vein in costean	<0.01	76	<5	13	<1	<20		