

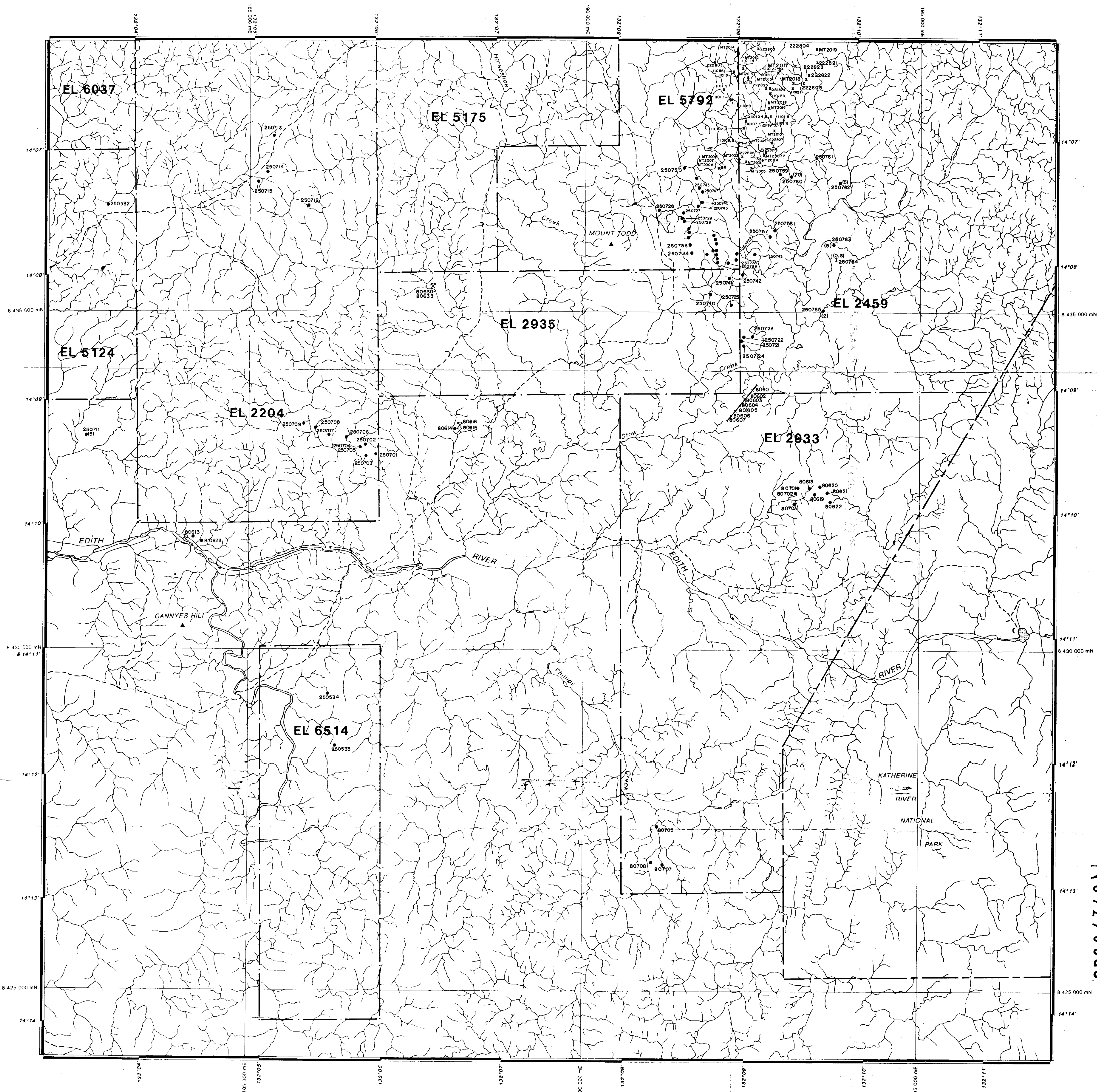
Appendix III
ROCK CHIP GEOCHEMISTRY

CR90/348 H

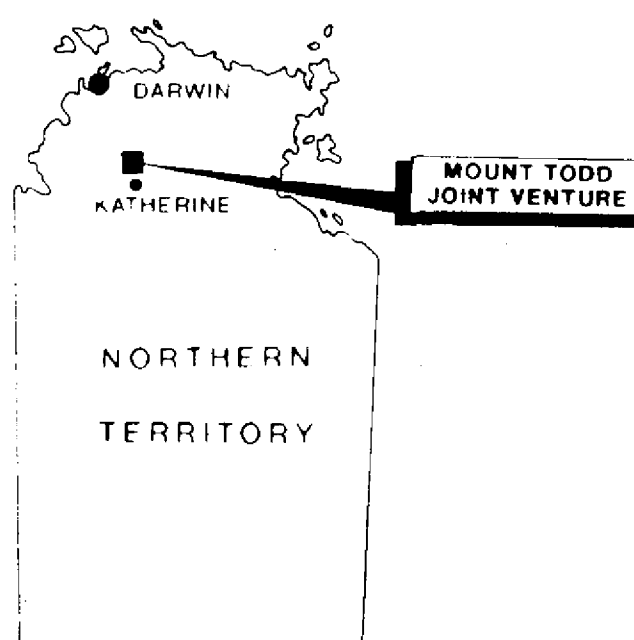
APPENDIX III - ROCK CHIP GEOCHEMISTRY

LIST OF CONTENTS

	Title	Scale
Fig 82	Mt Todd JV - Batman Area Regional rock chip sample locations ✓	1:25,000
83	Mt Todd JV - Batman Area Regional Rock Chip Results Au (ppm) ✓	1:25,000
84	Mt Todd JV - Batman North - Rock Chip Sample locations and Au(ppm) Results Sheet 7 ✓	1: 5,000
85	Mt Todd JV - Batman North - Rock Chip Cu, Pb, Zn (ppm) Results Sheet 7 ✓	1: 5,000
86	Mt Todd JV - Batman North Rock Chip Sn, W, As (ppm) Results Sheet 7 ✓	1: 5,000
87	Mt Todd JV - Quigleys Rock Chip Sample Locations and Au (ppm) Results Sheet 8 ✓	1: 5,000
88	Mt Todd JV - Quigleys - Rock Chip Cu, Pb, Zn (ppm) Results Sheet 8	1: 5,000
89	Mt Todd JV - Quigleys - Rock Chip Sn, W, As (ppm) Results Sheet 8 ✓	1: 5,000
90	Mt Todd JV - Batman & Robin Prospect Rock Chip Sample locations and Au (ppm) Results Sheet 12 ✓	1: 5,000
91	Mt Todd JV - Mt Todd Rock Chip Sample locations and Au (ppm) Results Sheet 13 ✓	1: 5,000
92	Mt Todd JV - Tollis Rock Chip Sampling Au (ppm) 5m Composite Sample Sheet 7/24 ✓	1: 1,000
93	Mt Todd JV - Tollis Pacific Costean Results Billiton Rock Chip Sampling Au (ppm) Sheet 12/4 ✓	1: 1,000



LEGEND:
 80708, 250701 - Rock Chip Sample No.
 ● (5) - Sample of Rock Float or Subcrop (Radius of Area Sampled in Metres)
 — (1) - Composite Sample (Showing Length in Metres)
 x - Composite Grab Rock Chip



0 0.5 1 1.5 2km

MAINE 10° NORTH IS CORRECT
 FOR 1975 AND MOVES WESTERLY
 BY 2 METRES 10" IN AN OUT FIVE
 YEARS

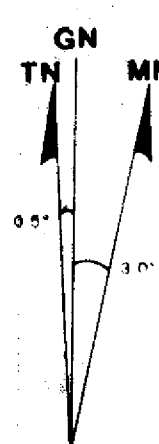
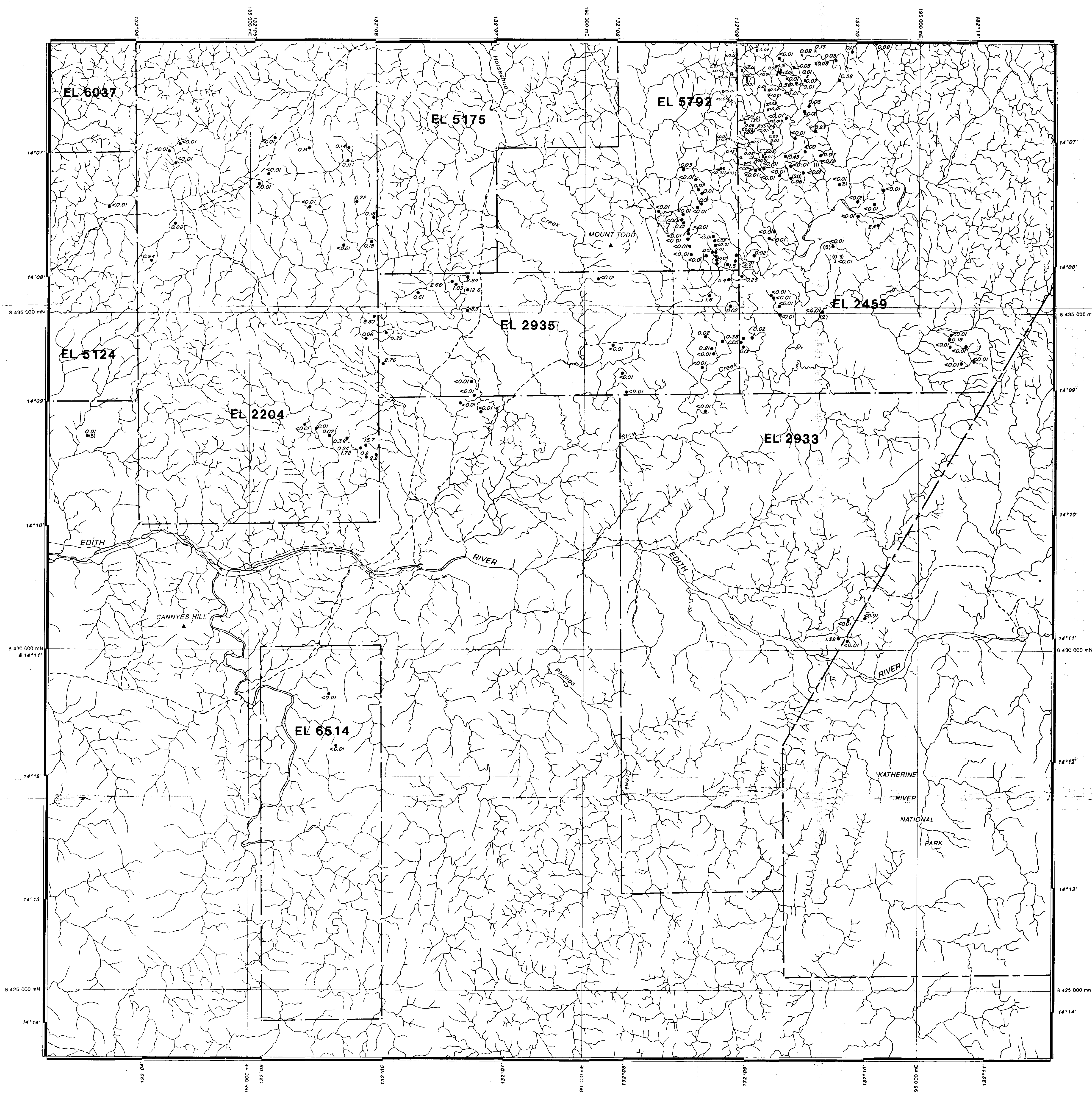


Fig 82

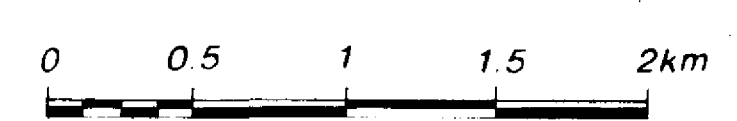
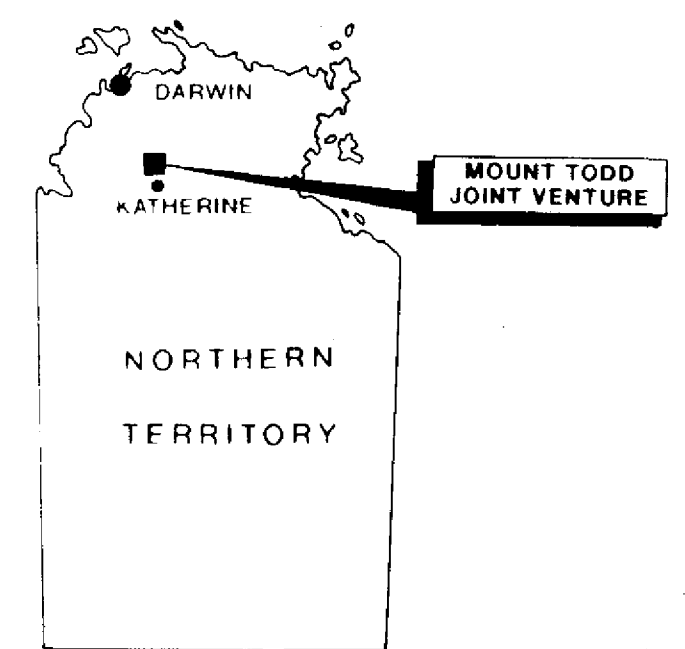
Billiton Australia Gold Pty. Ltd.			
Project MT TODD JOINT VENTURE NORTHERN TERRITORY			
Title BATMAN AREA REGIONAL ROCK CHIP SAMPLE LOCATIONS			
Author: FF	Date: 9/89	Scale: 1:25 000	
Drawn: MS	Office: KATH	Revised: Date	
Checked: Date	S'ced: Date		
Sheet No: 4	Drawing No:		

CR90/348H



LEGEND:

- (5) - Sample of Rock Float or Subcrop (Radius of Area Sampled in Metres)
- (1) - Composite Sample (Showing Length in Metres)
- 12.6 - Au Results in ppm
- <0.01 - Below Limit of Detection
- x - Composite Grab Rock Chip



MAGNETIC NORTH IS CORRECT
FINE 1976 AND MOVES WESTERLY
BY 2 METRES IN 100 YEARS

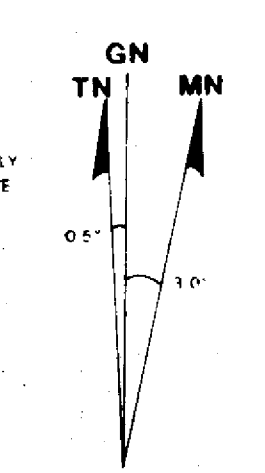
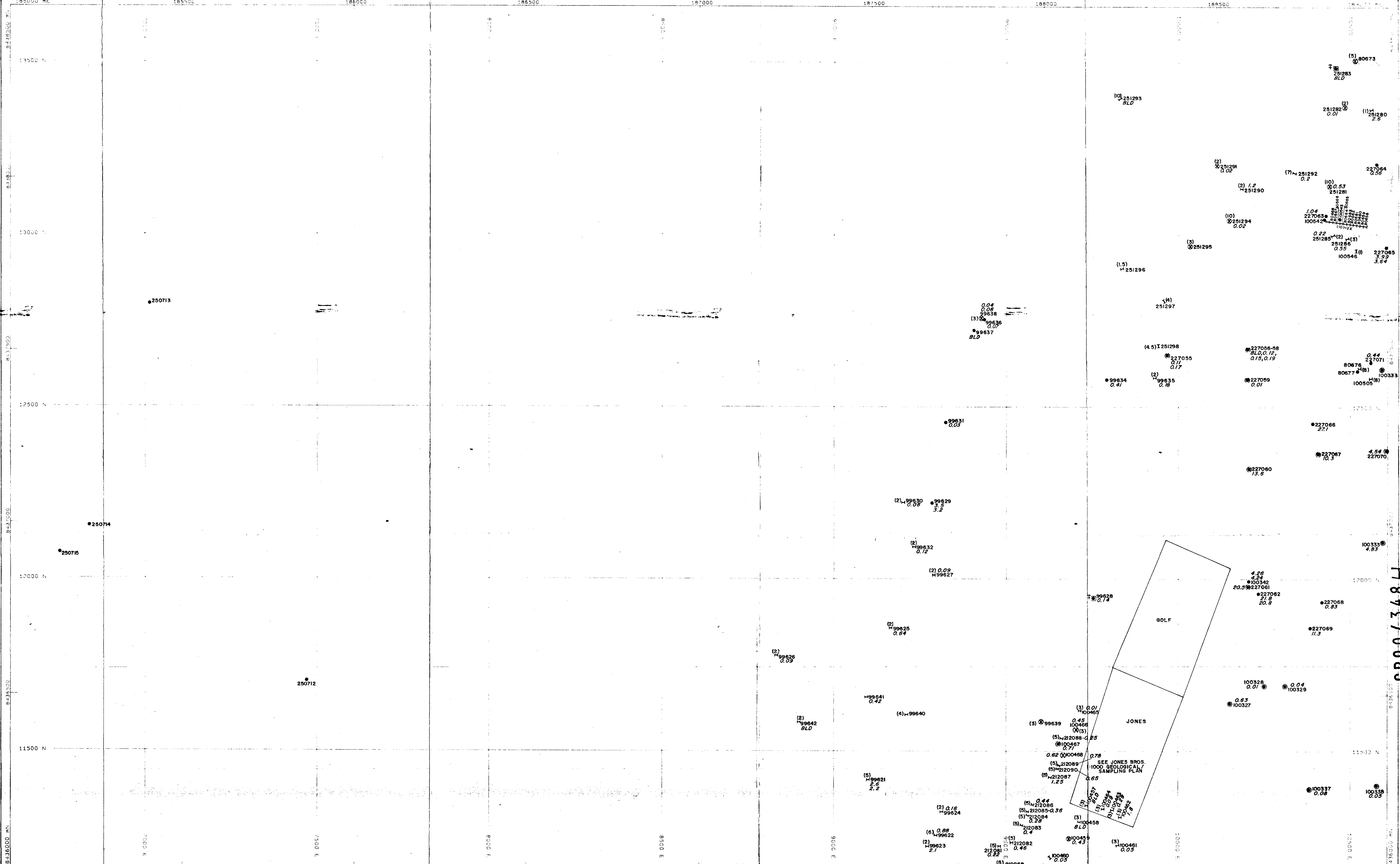


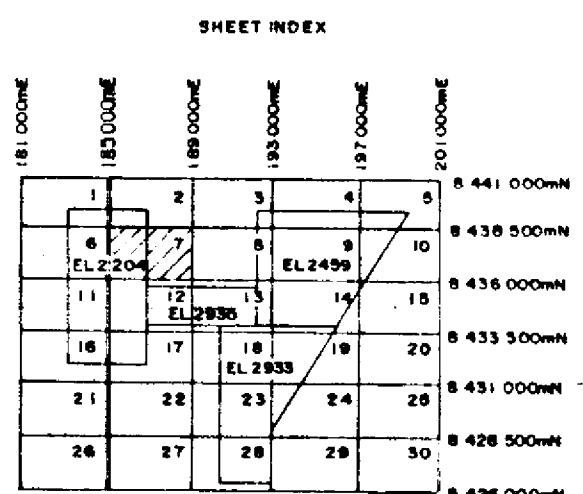
Fig 83

Billion Australia Gold Pty Ltd			
Project MT TODD JOINT VENTURE NORTHERN TERRITORY			
Title BATMAN AREA REGIONAL ROCK CHIP RESULTS Au (ppm)			
Author FF	Date 9/89	Scale 1:25 000	
Drawn MS	Office KATH	Revised	Date
Checked	Date	S'ced	Date
Sheet No 4	Drawing No		

CR00/3484



- LEGEND:**
- (2) - Line Composite, Length in Metres
 - - Grab Selective
 - - Coarse Rock Pile, Selective
 - - Coarse Rock Pile, Composite
 - - Prospecting Pit Rock Pile, Selective
 - 251296 - Rock Chip Sample Number
 - 21.8 - Au Results in ppm
 - BLD - Below Limit of Detection
 - ⊕ - Area Composite

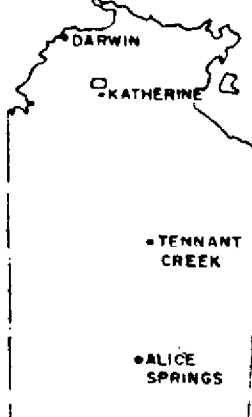


AMG/PROJECT GRID NORTH

MAGNETIC NORTH IS CORRECT FOR 1975 AND MOVES WESTERLY BY 0.1 MILLS TO 1975 IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN - 10000 000 N, 8400 000E
AMG GRID - 8436000 180 MN, 186700 370 ME

LOCATION PLAN



EARL JAMES & ASSOCIATES
SURVEY & MAPPING CONSULTANTS
DARWIN 08 9124 34

Fig 84

Billiton Australia Gold Pty Ltd
Project MOUNT TODD JOINT VENTURE
NORTHERN TERRITORY
BATMAN NORTH
ROCK CHIP SAMPLE LOCATIONS AND Au (ppm) RESULTS

Horizontal Datum AMG	Author FF	Dept KATH	Scale 1:5000
Vertical Datum AHD	Drawn MS	Date 1/90	Revised
Date of Photography 21-9-88	Checked	Date	Stamped
Sheet No 7			Drawing No HUE5 012

CR90/34811

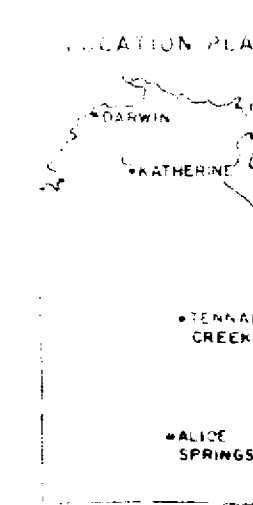
LEGEND:

- Grab Selective
 - (2)— Line Composite, Length in Metres
 - Prospecting Pit Rock Pile, Selective
 - ⊠ Prospecting Pit Rock Pile, Composite
 - ⊗ Area Composite
- 510,670,1020 Cu, Pb, Zn Results in ppm

SHEET INDEX									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

MAUNTIC NORTH IS CORRECT FOR
SMB AND MOVES WESTWARD BY
1/2 MILE (1/2 IN) IN ABOUT 1/2 YEAR

PROJECT BRID CHISHAM
1/2 MILE N. N. ROAD 1000
SMB GRID
MAUNTIC 1/2 M. CHISHAM



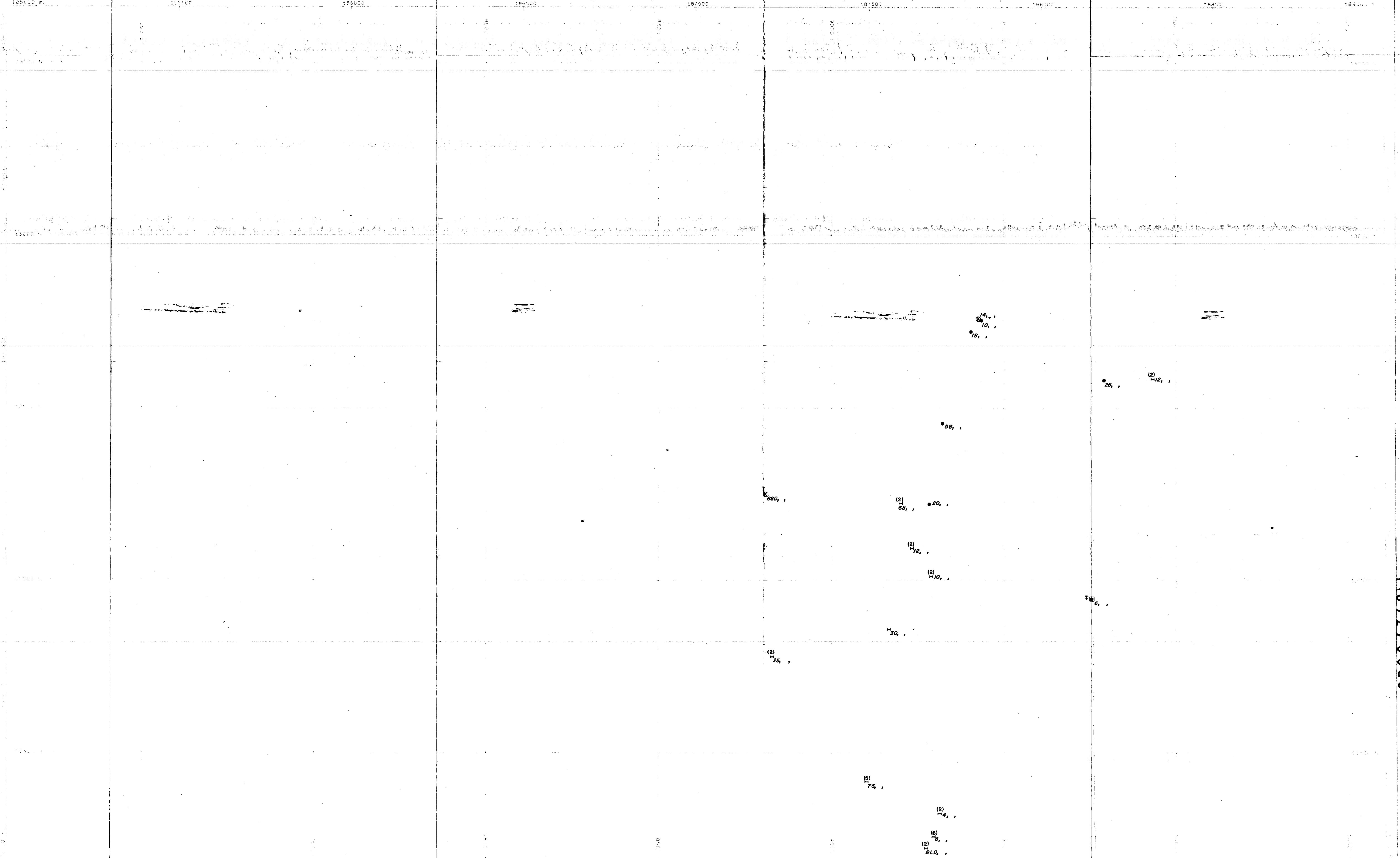
EARL JAMES & ASSOCIATES
SOLVING & MAPS CONSULTANTS
DARWIN NT 081249

Fig 85

Billiton Australia Gold Pty Ltd

ROCK CHIP Cu, Pb, Zn (ppm) RESULTS

KATH
1/90



LEGEND:
● Grab Selective
—(2)— Line Composite, Length in Metres
⊠ Prospecting Pit Rock Pile, Selective
⊡ Prospecting Pit Rock Pile, Composite
⊙ Area Composite
75, 10, 10 Sn, W, Zn Results in ppm
BLD Below Limit of Detection

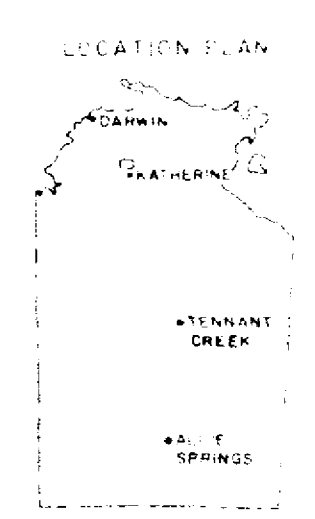
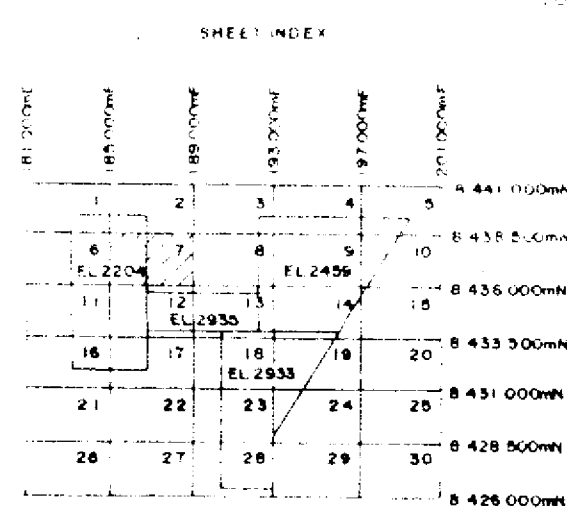
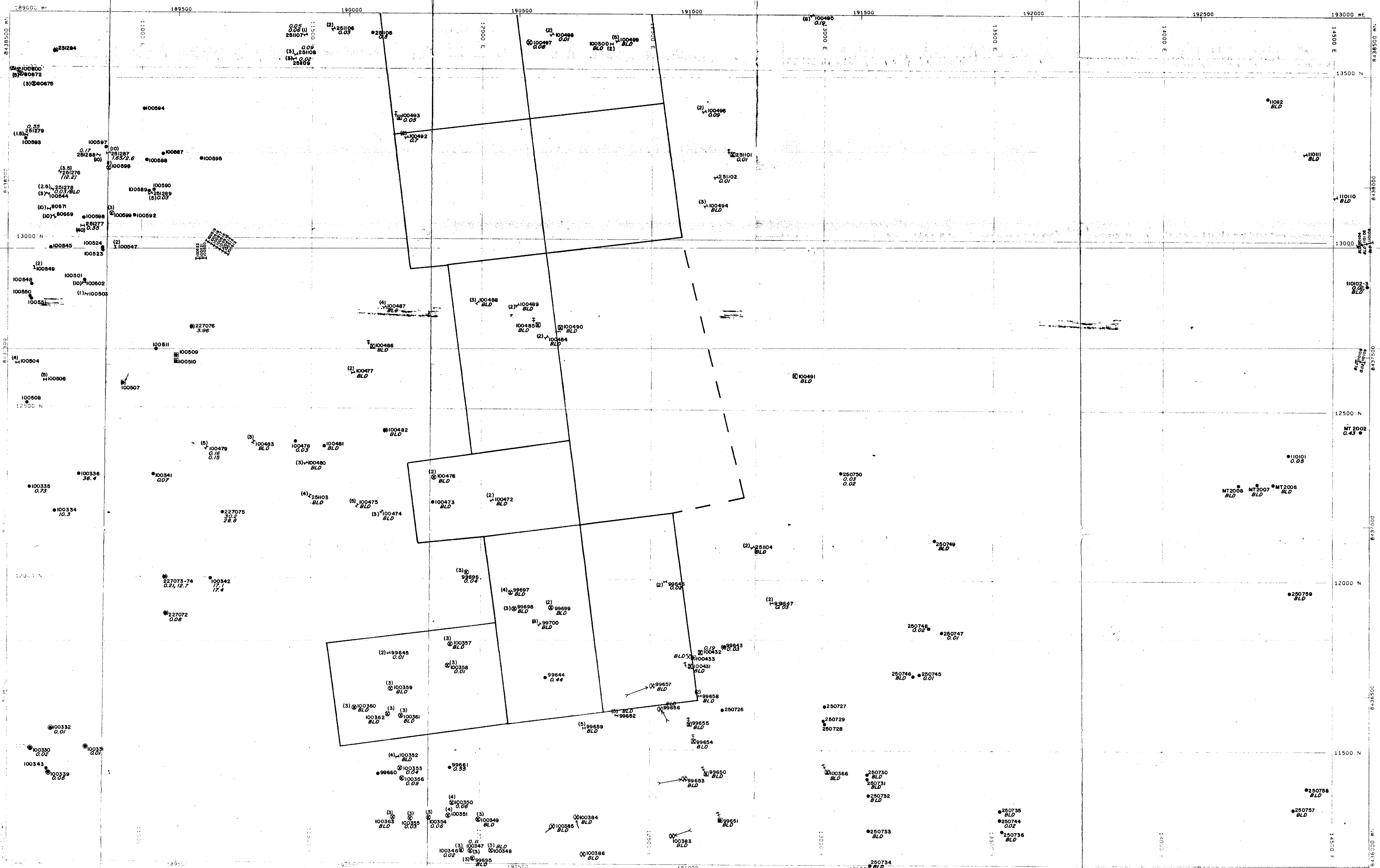


Fig 86

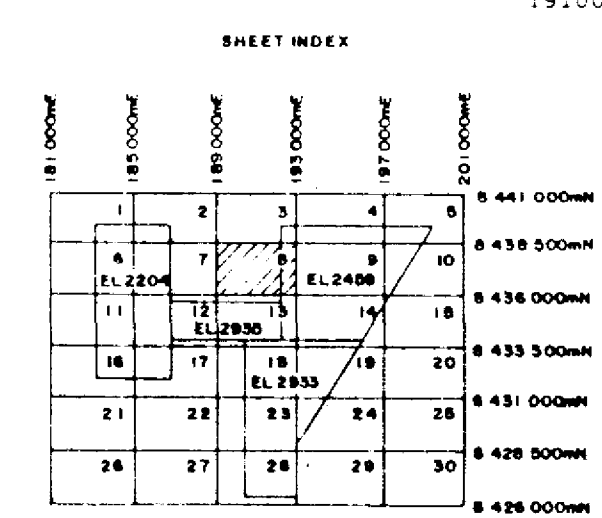
Biliton Australia Gold Pty Ltd
ROCK CHIP Sn, W, As (ppm) RESULTS
LAB. JAMES & ASSOCIATES
KATH
1/90

CR907348H

CR90/348H

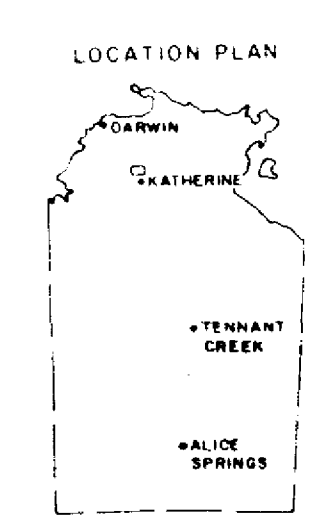


- LEGEND:
- Grab Sample
 - (2)— Line Composite, Length in Metres
 - ⊙(3) Area Composite, Radius in Metres
 - ⊠ Prospecting Pit Rock Pile, Composite
 - ⊗ Costean Rock Pile, Composite
 - ⊙ Costean Rock Pile, Selective
 - ⊙ Floor
 - 100491 Rock Chip Sample Number
 - 30.2 Au Results in ppm
 - BLD Below Limit of Detection



AMG/PROSPECTOR GRID NORTH

MAGNETIC NORTH IS CORRECT FOR 1975 AND MOVES WESTERLY BY 1.5 MILLS (0.15°) IN ABOUT FIVE YEARS



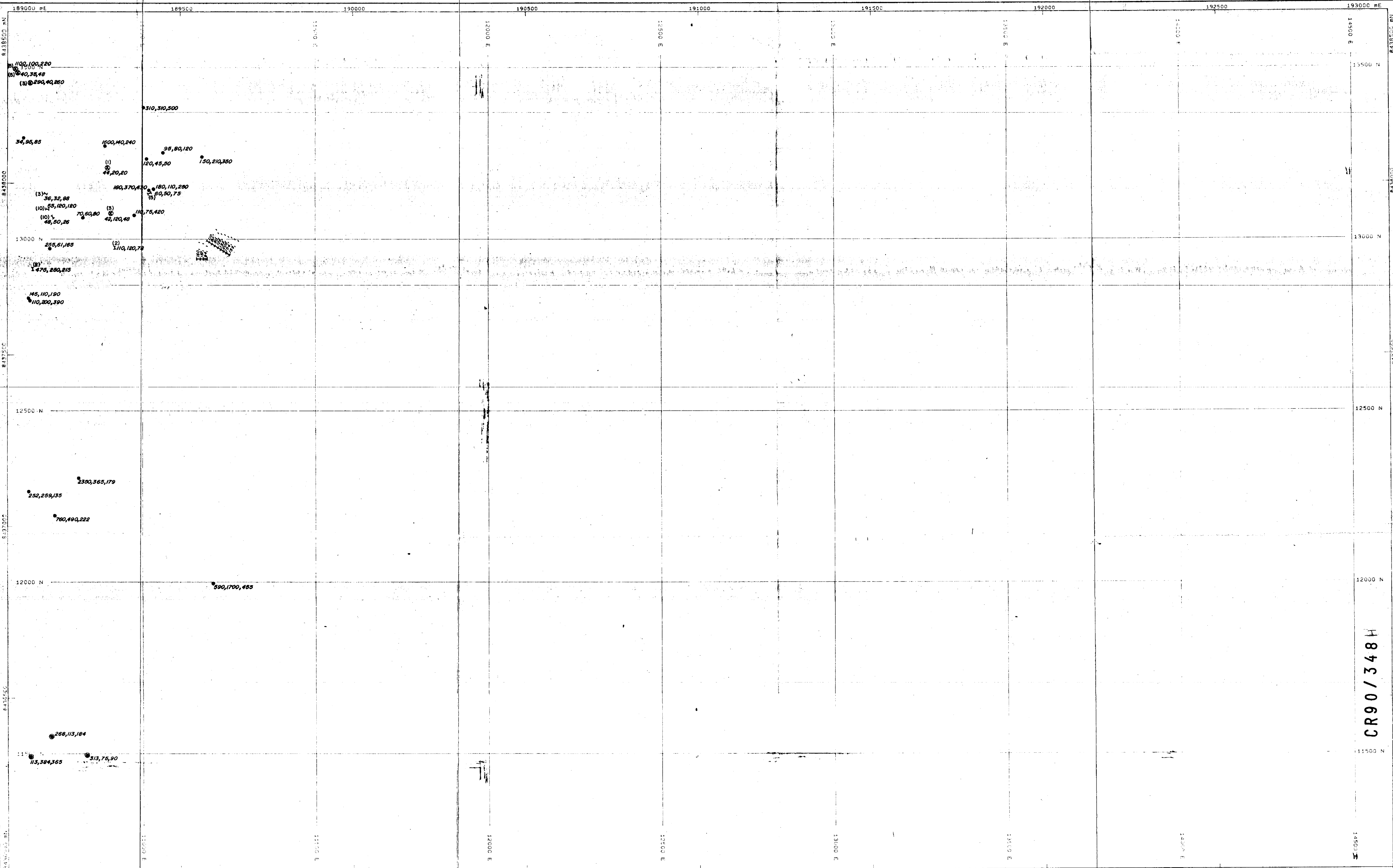
Billiton Australia Gold Pty Ltd

Fig 87

ROCK CHIP SAMPLE LOCATIONS AND Au (ppm) RESULTS

Horizontal Datum: AMG Author: FF
Vertical Datum: AMS Drawn: MS
Date of Photography: 1990 Date of Revision: 1990
Scale: 1:5000
Drawing No: 80953

EARL JAMES & ASSOCIATES
SURVEY & MAPPING
DARWIN 099 2424



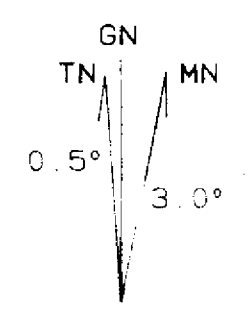
CR90/348H

LEGEND:
• Grab Selective
—(2)— Line Composite, Length in Metres
⊙(3) Area Composite, Radius in Metres
• Costean Rock Pile, Selective
33,75,90 Cu, Pb, Zn Results in ppm

SHEET INDEX

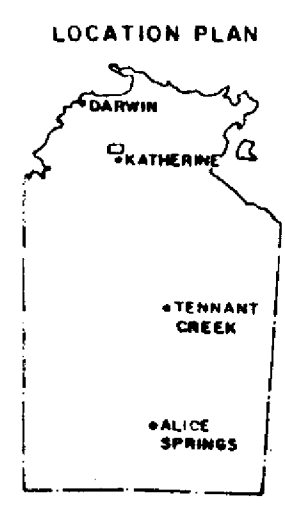
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

AMG/PROJECT GRID NORTH



MAGNETIC NORTH IS CORRECT FOR 1975 AND MOVES WESTERLY BY 2 MILS (0.1°) IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN = 10000 000 N, 8400 000E
AMG GRID = 8434837, 180 mm, 186781, 370 ME



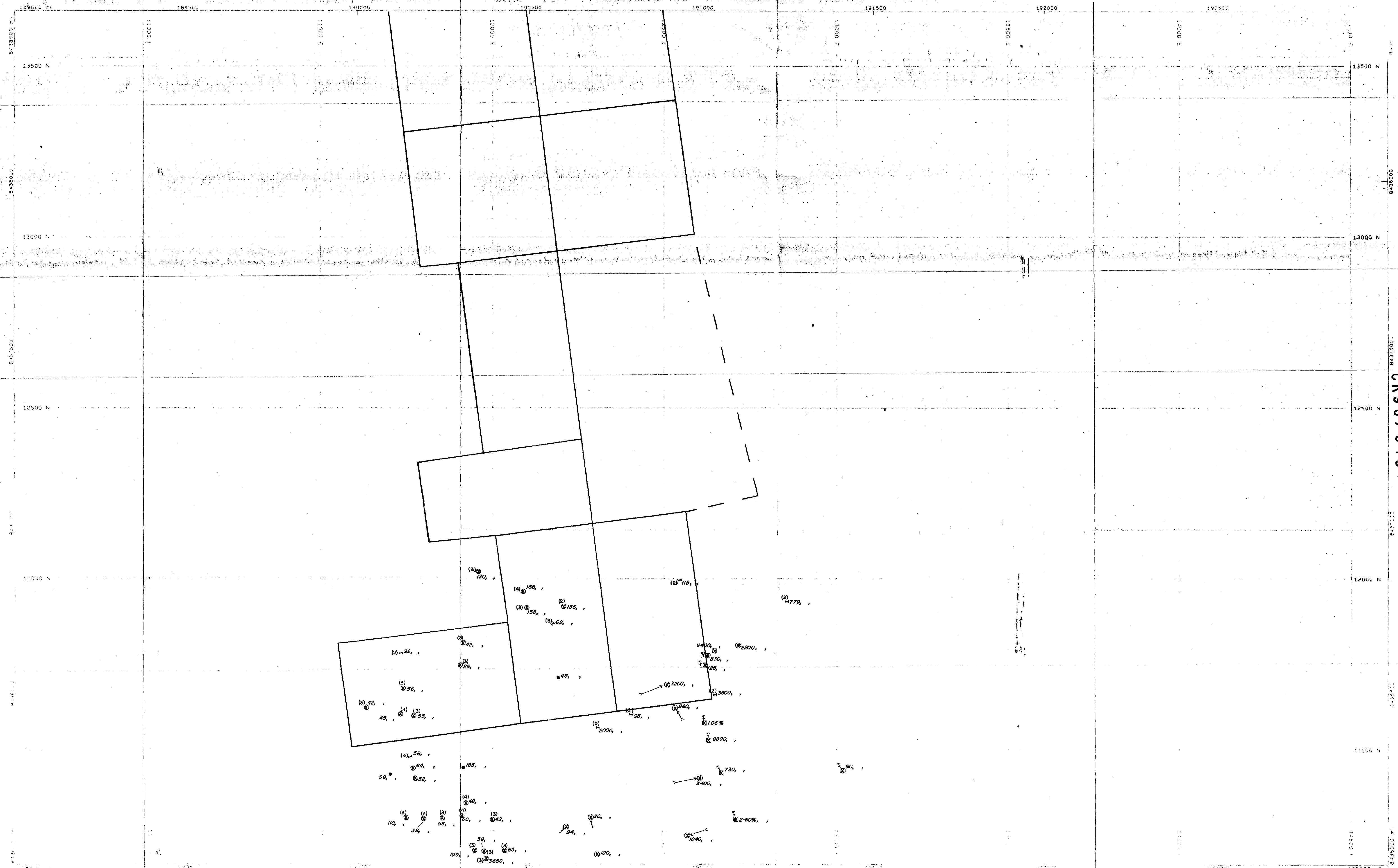
EARL JAMES & ASSOCIATES
SURVEY & MAPPING CONSULTANTS
DARWIN 08 09 11 24 84

Fig 88

Billiton Australia Gold Pty. Ltd.
Project MOUNT TODD JOINT VENTURE
NORTHERN TERRITORY
Title
N 100E
ROCK CHIP Cu, Pb, Zn (ppm) RESULTS

Horizontal Datum: AMG 1975
Vertical Datum: AHD 1984
Date of Photograph: 1988
Sheet No. 8

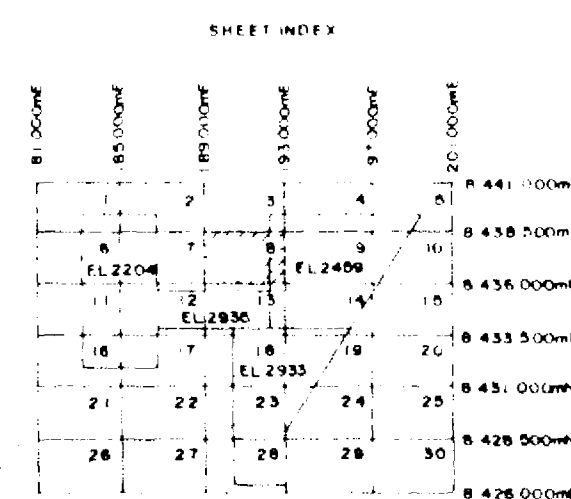
FF
Date 1/90
Revised
Date
Checked
Date
Signed
Date
Drawing No. HJ96/1296



LEGEND:

- - Grab Selective
- (4) - Line Composite, Length in Metres
- ⊗(3) - Area Composite, Radius in Metres
- ⊠ - Prospecting Pit Rock Pile, Composite
- - Prospecting Pit Rock Pile, Selective
- ⊗ - Costean Rock Pile, Composite
- ~ - Float

650, , , ,
 • Sn, W, As Results in ppm



EQUATION (1) AND

• TENNAN
GREEN

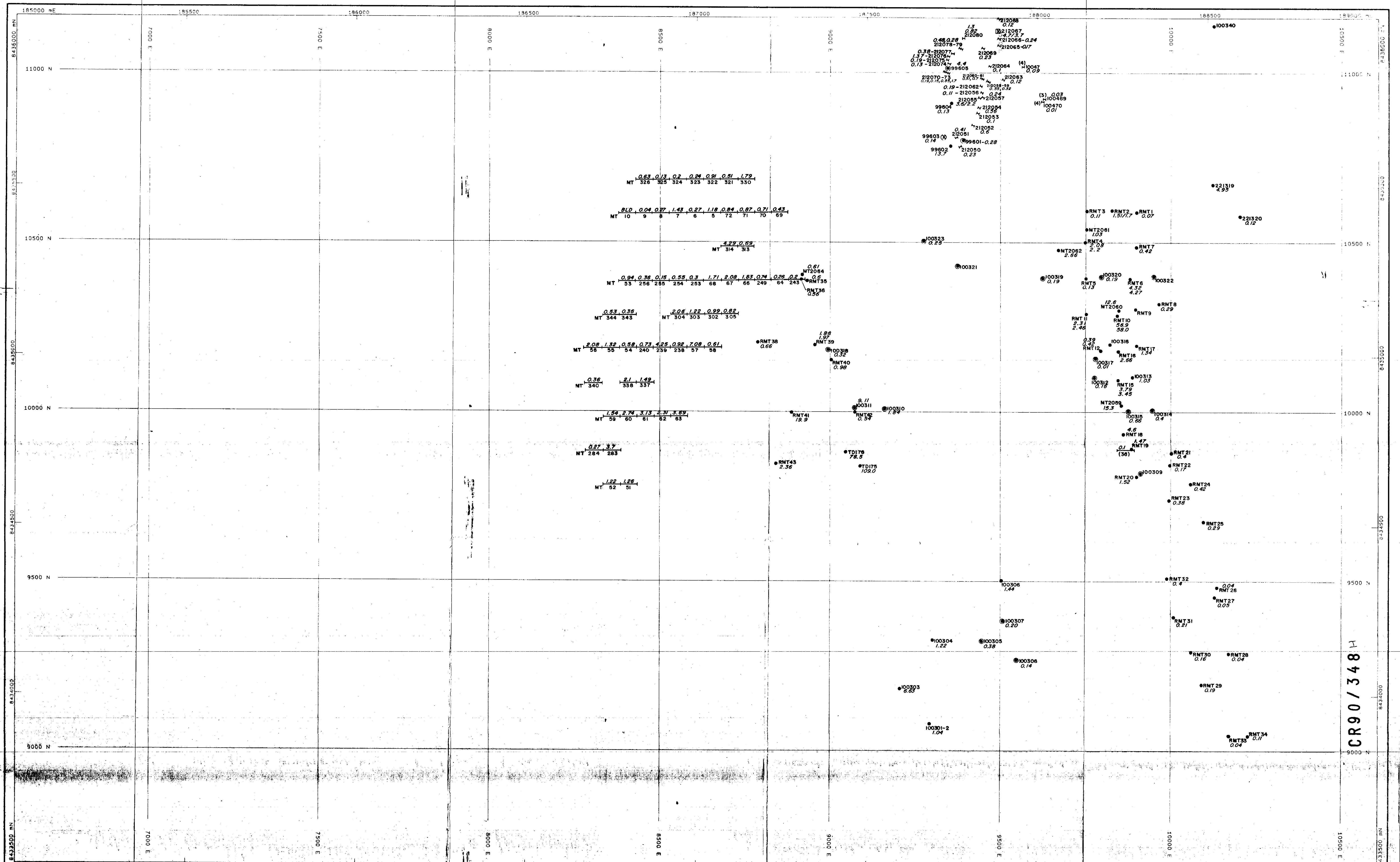
EARL JAMES & ASSOCIATES
SURVEY & MAP ENGINEERS

Billiton Australia Gold Pty Ltd

Fig 89

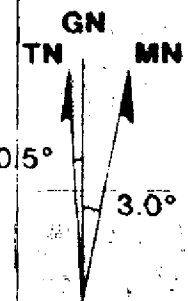
ROCK CHIP Sn, W, As (ppm) RESULTS

FF Capt KATH Date 1/10/90
MS Date 1/7/90
Date Date



LEGEND:
● - Grab Selective
—(4)— Line Composite, Length in Metres
RMT20, 100304, 212054 - Rock Chip Sample Number
1030 - Au Results in ppm
BLD - Below Limit of Detection

AMG/PROJECT GRID NORTH

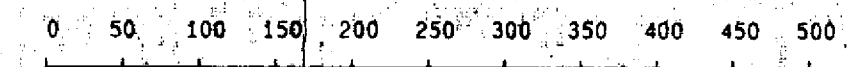


MAGNETIC NORTH IS CORRECT FOR
1975 AND MOVES WESTERLY BY
2 MILS (0.1°) IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN=
10000.000N, 8400.000E
AMG GRID=
8434837 180 mN, 186791.370 mE

EARL JAMES & ASSOCIATES
SURVEY & MAPPING CONSULTANTS
DARWIN 0808 212194

Fig 90



Horizontal Datum AMG	Author FF	KATH	Scale 1:5000
Vertical Datum AHD	Drawn MS	1/90	Revised
Date of Photography 27-9-88	Checked	S'ced	
	Sheet No 12	Drawing No. H90/034	

Billiton Australia Gold Pty Ltd.
Project MOUNT TODD JOINT VENTURE
NORTHERN TERRITORY
Title
BATMAN AND ROBIN PROSPECT
ROCK CHIP SAMPLE LOCATIONS AND
Au (ppm) RESULTS

CR90/348



LEGEND:

- Grab Sample
- Line Composite, Length in Metres
- Area Composite, Radius in Metres
- Flot
- Chert Rock Pile, Composite
- 100347 Rock Chip Sample Number
- 1.8 Au Results in ppm
- BLD Below Limit of Detection
- Prospecting Pit Rock Pile, Composite

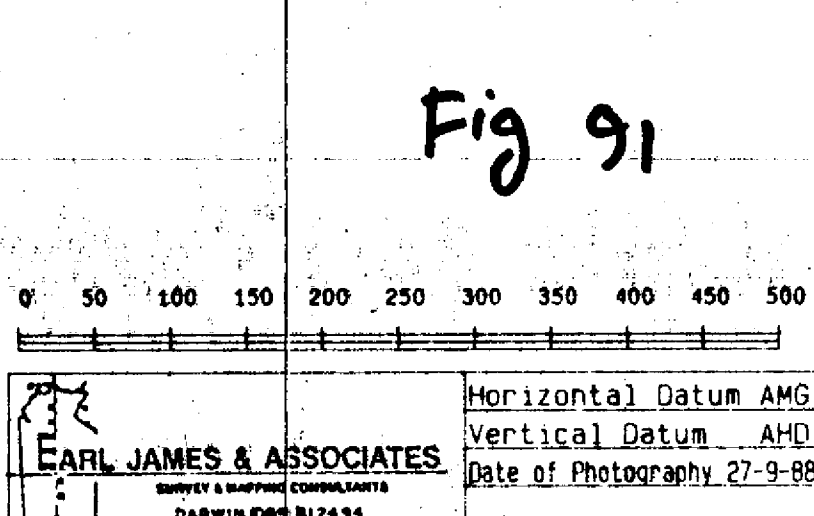
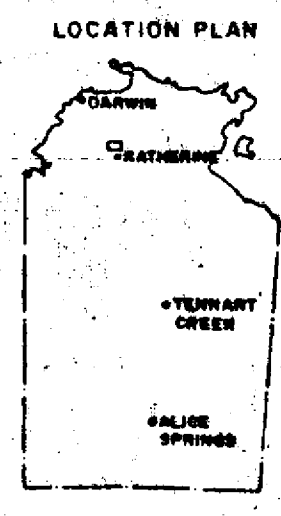
SHEET INDEX

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

AMG/PROJECT GRID NORTH

MAGNETIC NORTH IS CORRECT FOR 1975 AND MOVES WESTERLY BY 2 MILS (0.1°) IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN = 10000 000 N, 8400 000E
AMG GRID = 8434837.180 MN, 186791.370 ME

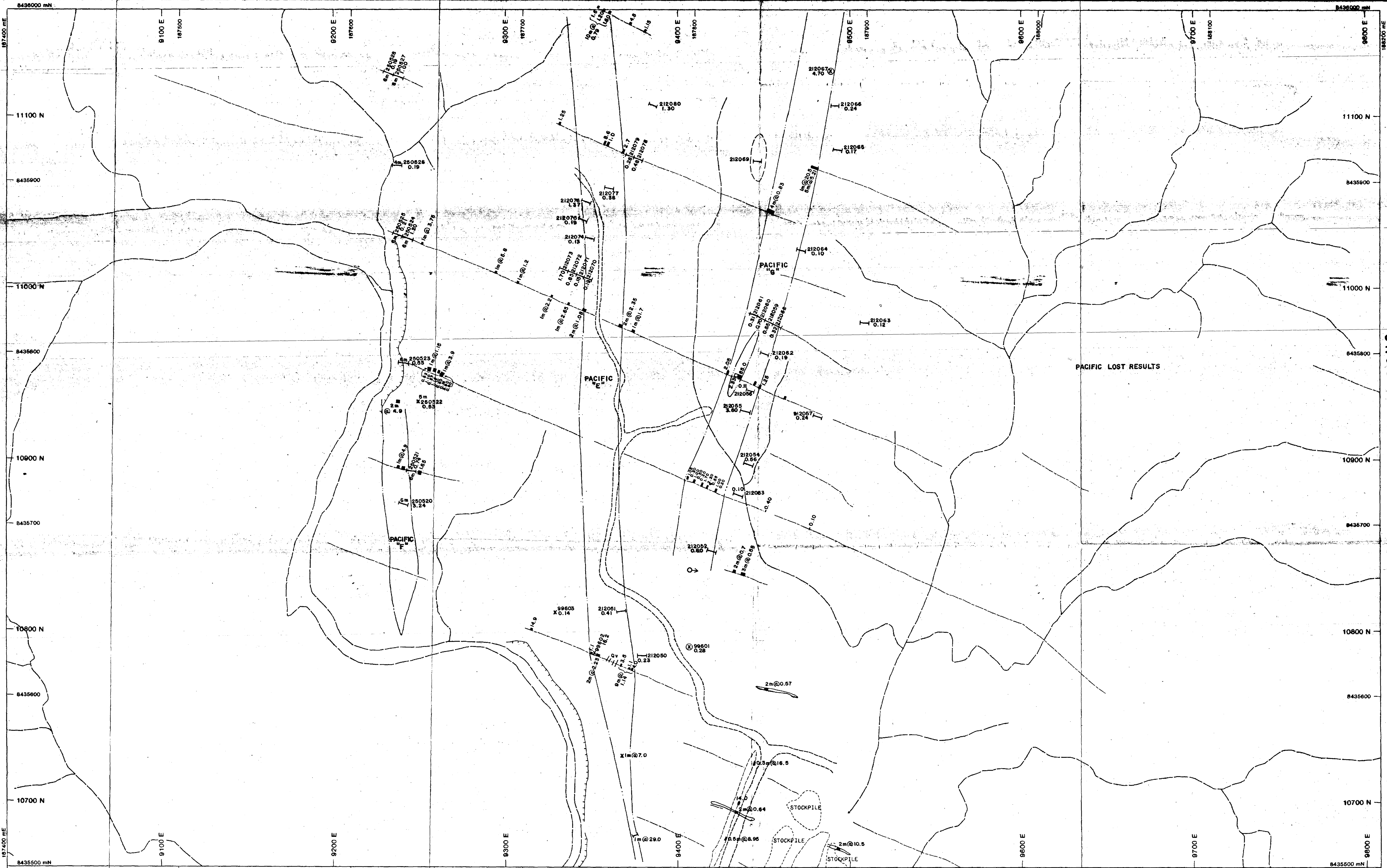


Billiton Australia Gold Pty Ltd.

Project **MOUNT TODD JOINT VENTURE**
NORTHERN TERRITORY

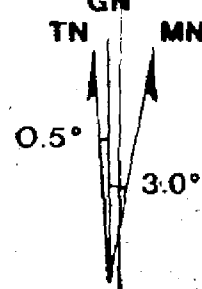
Title **MT TODD**
ROCK CHIP SAMPLE LOCATIONS AND Au (ppm) RESULTS

Horizontal Datum AMG	Author FF	Dept KATH	Scale 1:5000
Vertical Datum AHD	Drawn MS	Date 1/90	Revised Date
Date of Photography 27-9-88	Checked Date	S'ced Date	Date
Sheet No. 13	Drawing No.		



LEGEND:
212061 - Sample Number
1.65 - Au Results in ppm
6m - Line Composite, Length in Meters
⊗ - Area Composite

AMG/PROJECT GRID NORTH



MAGNETIC NORTH IS CORRECT FOR
1975 AND MOVES WESTERLY BY
2 MILS (0.1°) IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN =
10000.000 N, 8400.000 E
AMG GRID =
8434837.180 mN, 186791.370 mE

18600 mE	18650 mE	18700 mE	18750 mE	18800 mE	18850 mE
8436000 mN	3	4	5	6	7
8435500 mN	8	9	10	11	12
8435000 mN	13	14	15	16	17
8434500 mN	18	19	20	21	22
8434000 mN	23	24	25	26	27
8433500 mN					

SHEET 12

Fig 93



EARL JAMES & ASSOCIATES
SURVEY & MAPPING CONSULTANTS
DARWIN (08) 812494

Horizontal Datum	AMG	Author	KATH	Scale	1:1000
Vertical Datum	AHD	Drawn	MS	Revised	1/90
Date of Photography	27-9-88	Checked		5' caded	
Sheet No.	12/4	Drawing No.	M/90/1029		

Billiton Australia Gold Pty Ltd
Project MOUNT TODD JOINT VENTURE
NORTHERN TERRITORY

TOLLIS
PACIFIC COSTEAN RESULTS
BILLITON ROCK CHIP SAMPLING
Au (ppm)

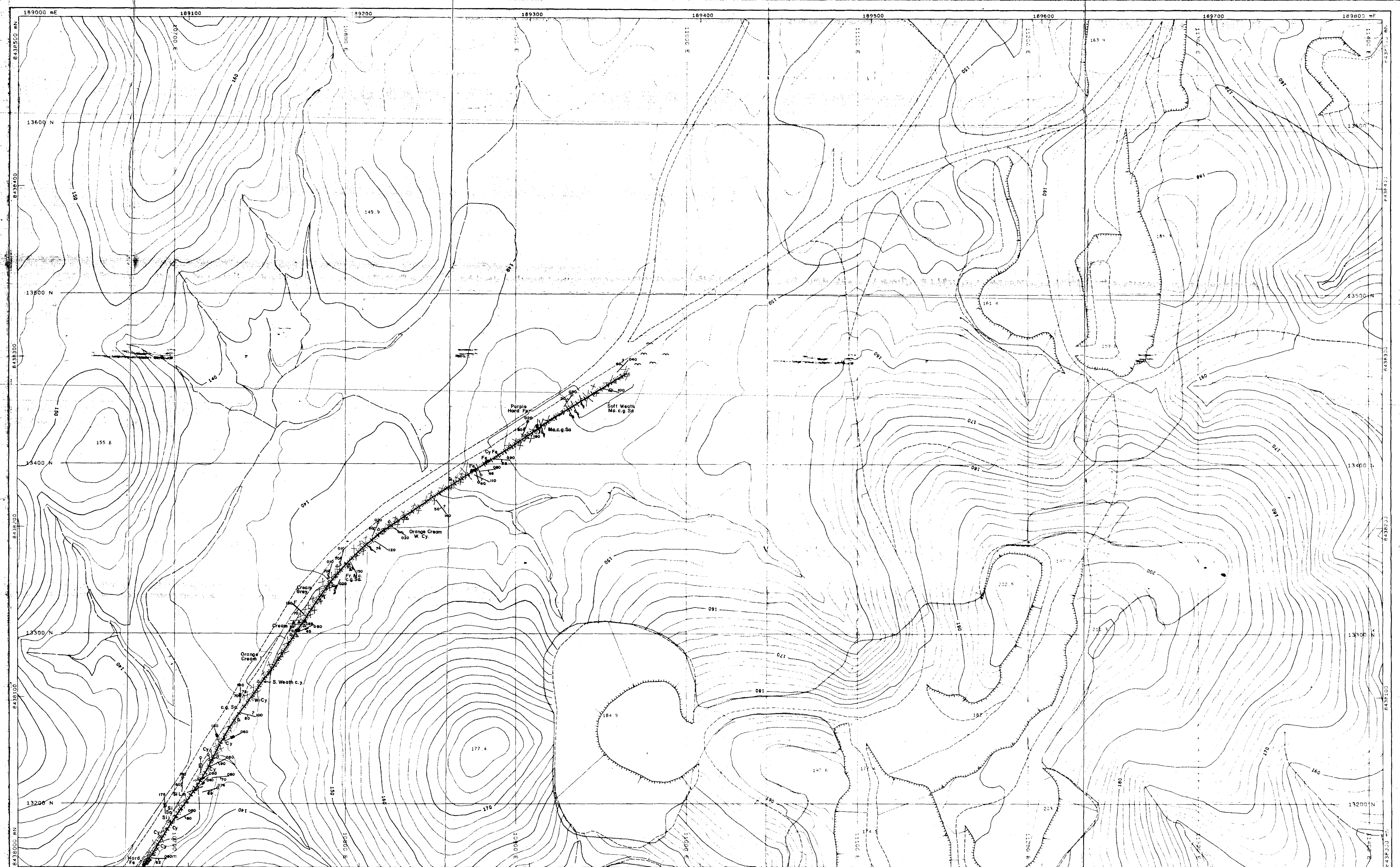
Appendix IV
COSTEAN / RAB
GEOLOGY - GEOCHEMISTRY

CR90/348 I

APPENDIX IV - COSTEAN/RAB GEOLOGY - GEOCHEMISTRY

LIST OF CONTENTS

Title	Scale:
Fig 94 Mt Todd JV Quigleys - Costean Geology ✓	Sheet 8/1 1:1000
95 Mt Todd JV Quigleys - Costean Geology ✓	Sheet 8/6 1:1000
96 Mt Todd JV Quigleys - Costean Sample Locations Au (ppm) Results	Sheet 8/1 1:1000 ✓
97 Mt Todd JV Quigleys - Costean Sample Locations Au (ppm) Results ✓	Sheet 8/6 1:1000
98 Mt Todd JV Tollis - Costean Sample Locations Au (ppm) Results	Sheet 7/19 1:1000 ✓
99 Mt Todd JV Tollis - Costean Sample Locations Au (ppm) Results	Sheet 7/24 1:1000 ✓
100 Mt Todd JV Tollis - Costean Sample Locations Au (ppm) Results	Sheet 12/4 1:1000 ✓
101 Mt Todd JV Tollis - Costean Sample Locations Au (ppm) Results	Sheet 12/9 1:1000
102 Mt Todd JV Jones Bros - Costean Sample Locations Au (ppm) Results	Sheet 7/25 1:1000 ✓
103 Mt Todd JV Batman/Robin - Costean Sample Locations Au (ppm) Results	Sheet 12/5 1:1000 ✓
104 Mt Todd JV Tollis Reef - Costean Sample Locations Au (ppm) Results ✓	Sheet 12/14 1:1000
105 Robin/Plant Site - Costean line 10100N Sample locations/Results Au(ppm)/Geology	1: 500
106 Plant/Spillway/Tailings Dam - Costean 10300N ✓ Sample locations/Results Au(ppm)/Geology	1: 500
107 Spillway/Tailings Dam - RAB Drilling line 10300N ✓ Sample locations/Results Au(ppm)/Geology	1: 500
108 Spillway/Tailings Dam - RAB Drilling line 11000N ✓ Sample locations/Results Au(ppm)/Geology	1: 500



LEGEND:

- Costean Sample Location w/ 5m Interval
- Si - Silty Greywacke
- So - Sandy Greywacke
- ///XXX - Multiple Fracture Sets
- △△△ - Fracture Breccia
- ▲▲▲ - Ferruginous Breccia
- Altuvium
- Dip & Strike of Bedding
- Dip & Strike of Joint
- Dip & Strike of Sheeted Hematite-Quartz Vein Sets

FAULTS

- F - Fault
- Dcm - Buck Quartz Reef, Dip, Strike & Thickness
- Outcrop
- Shear Zone
- Anticline Axis & Plunge
- Syncline Axis & Plunge

Alteration:

- W - Weak, M - Moderate, S - Strong
- Fe - Ferruginous
- Cy - Clay
- Mo - Massive
- Lm - Finely Laminated Bedding
- f.g. - Fine Grained
- m.g. - Medium Grained
- c.g. - Coarse Grained

Weathering - Weath

AMG PROJECT GRID NORTH

GN
TN
MN
3 0 0

LOCATION PLAN

Fig 94

CR90/348I

Billiton Australia Gold Pty Ltd

Project MOUNT TODD JOINT VENTURE
NORTHERN TERRITORY

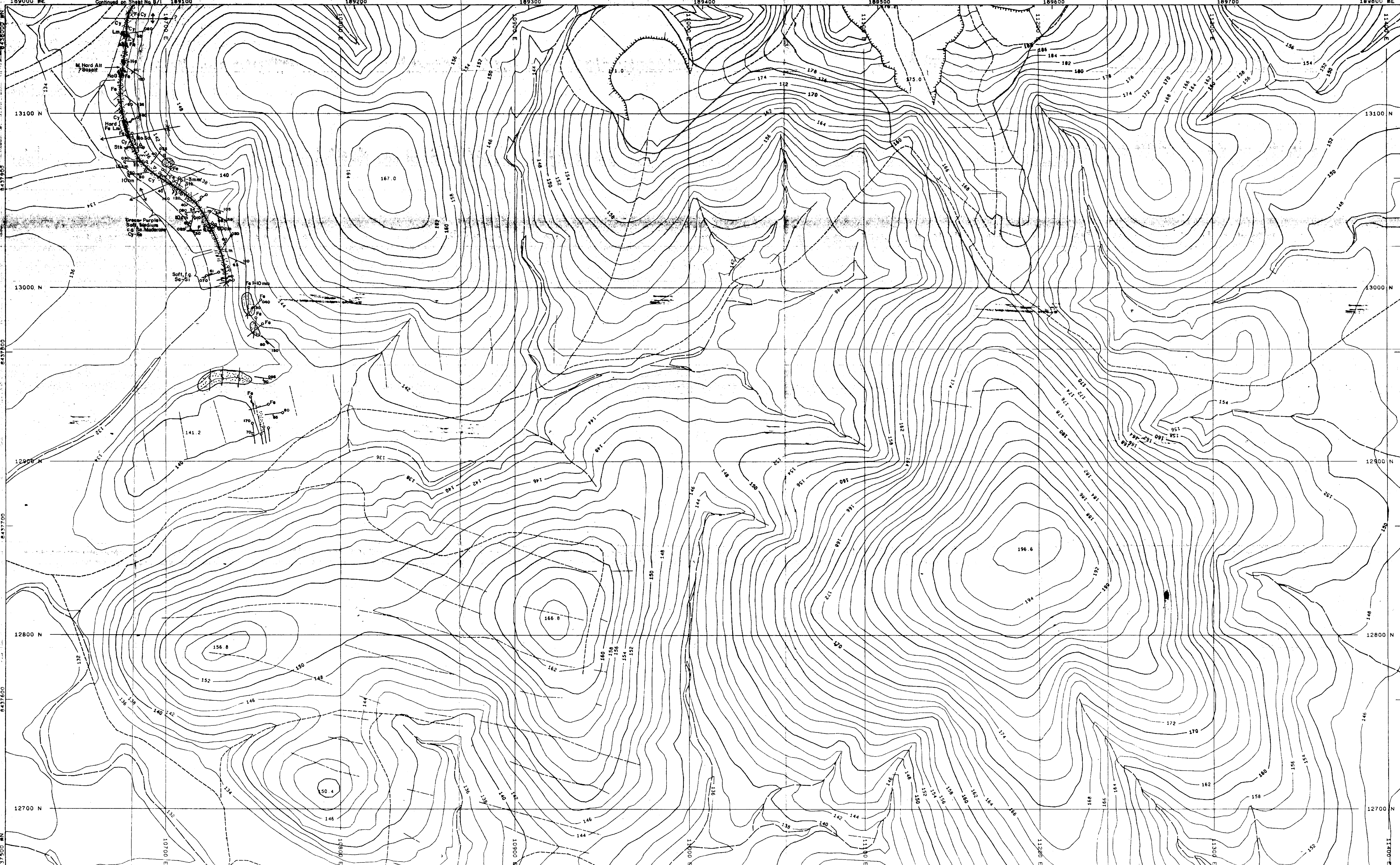
COSTEAN GEOLOGY

MAGNETIC NORTH IS CORRECT FOR
1975 AND MOVED WESTERLY BY
2 MILLS (0.1°) IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN =
10000 000 N, 8400 000 E
AMG GRID =
8434837 180 MN, 186751 370 ME

EARL JAMES & ASSOCIATES
SURVEY & MAPPING CONSULTANTS
DARWIN 0800 0124 94

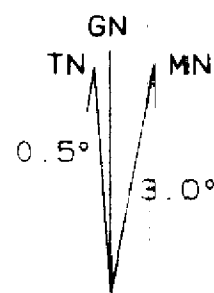
Author AFC
Drawn MS
Date 12/89
Revised
Sheet No. 6.1
Crawing No.



Disclaimer by Earl James & Associates:
This plan was produced at the request of Billiton (Aust) Gold for geological investigations only. It was produced from 1:5000 digital mapping data which was acquired from 1:15000 photography. Hence, the horizontal accuracy of this plan does not meet standard specifications for 1:1000 scale mapping.

LEGEND:
See Sheet No. 8/1

AMG/PROJECT GRID NORTH



MAGNETIC NORTH IS CORRECT FOR
1975 AND MOVES WESTERLY BY
2 MILS (0.1") IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN =
10000 000 N, 8400 000 E
AMG GRID =
8434637.180 MN, 185791.370 ME

LOCATION PLAN

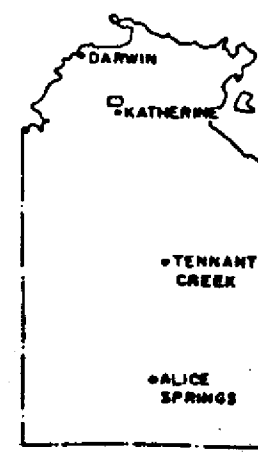


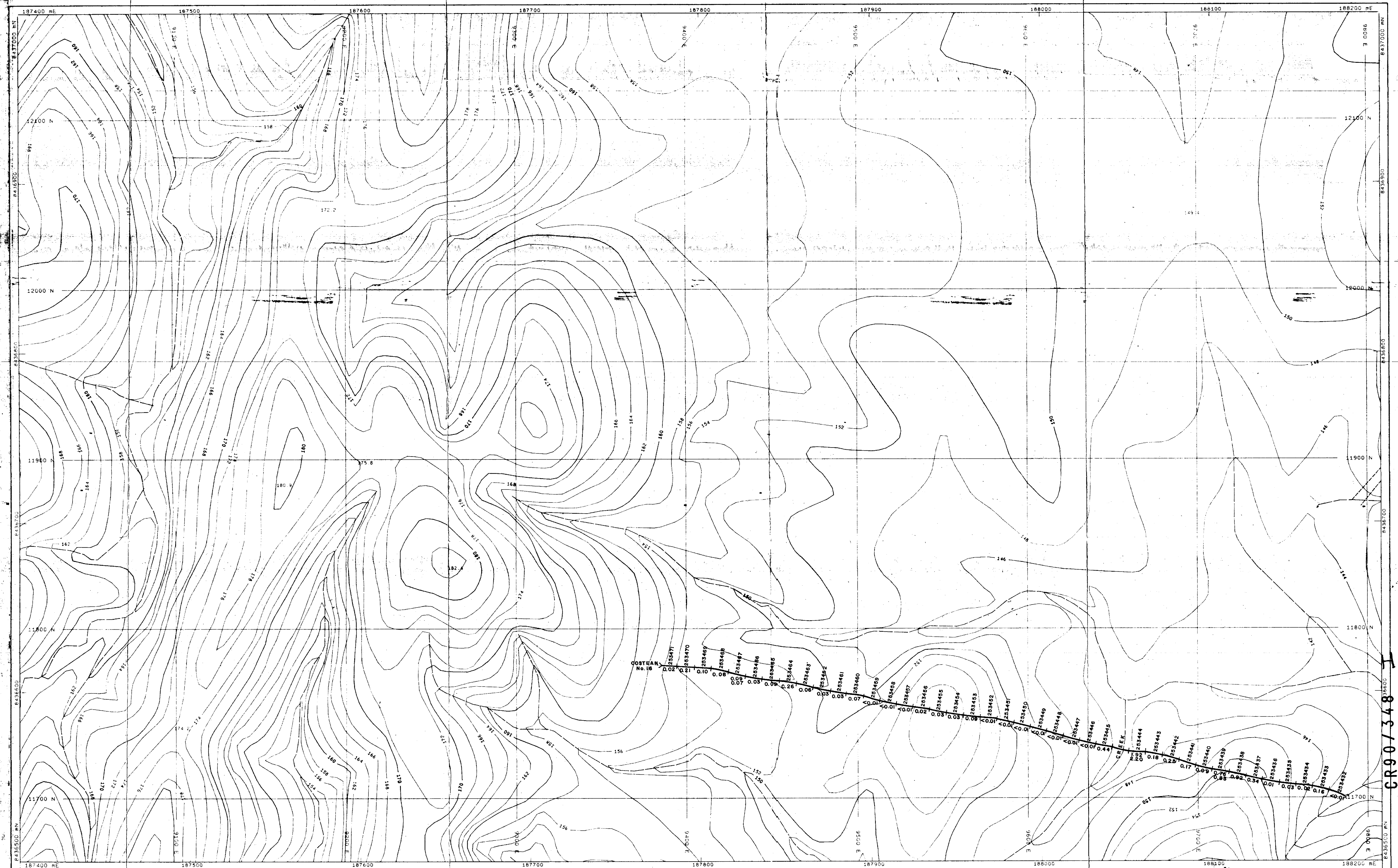
Fig 95
CR90/348 I

Billiton Australia Gold Pty Ltd

Project MOUNT TODD JOINT VENTURE
NORTHERN TERRITORY

GUIGLEYS
COSTEAN GEOLOGY

Horizontal Datum AMG	Author AFC	Dept KATH	Scale 1:1000
Vertical Datum AHD	Drawn NS	Date 12/89	Revised Date
Date of Photography 27-9-89	Checked Date	S'ced Date	Date
Sheet No. 8/6	Drawn No.		



Disclaimer by Earl James N. Associates

This plan was produced at the request of Billiton (Aust) Gold for geological investigations only. It was produced from 1:5000 digital mapping data which was acquired from 1:15000 photography. Hence, the horizontal accuracy of this plan does not meet standard specifications for 1:1000 scale mapping.

LEGEND:

—|— X — Costean Sample Location w/ 10m Interval

253471 · Costean Sample Number

1.92 · Au Results in ppm

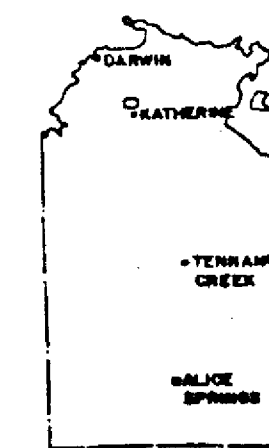
<0.01 · Below Limit of Detection

AMG/PROJECT GRID NORTH

MAGNETIC NORTH IS CORRECT FOR
1975 AND MOVES WESTERLY BY
2 MILS (0.1°) IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN =
10000 000 N, 8400 000E
AMG GRID =
18434837.180 MN, 186791.370 ME

LOCATION PLAN



EARL JAMES & ASSOCIATES
BARTLEY & SHAPPEY CONSULTANTS
FARMINGTON, CT 06030

Fig 98

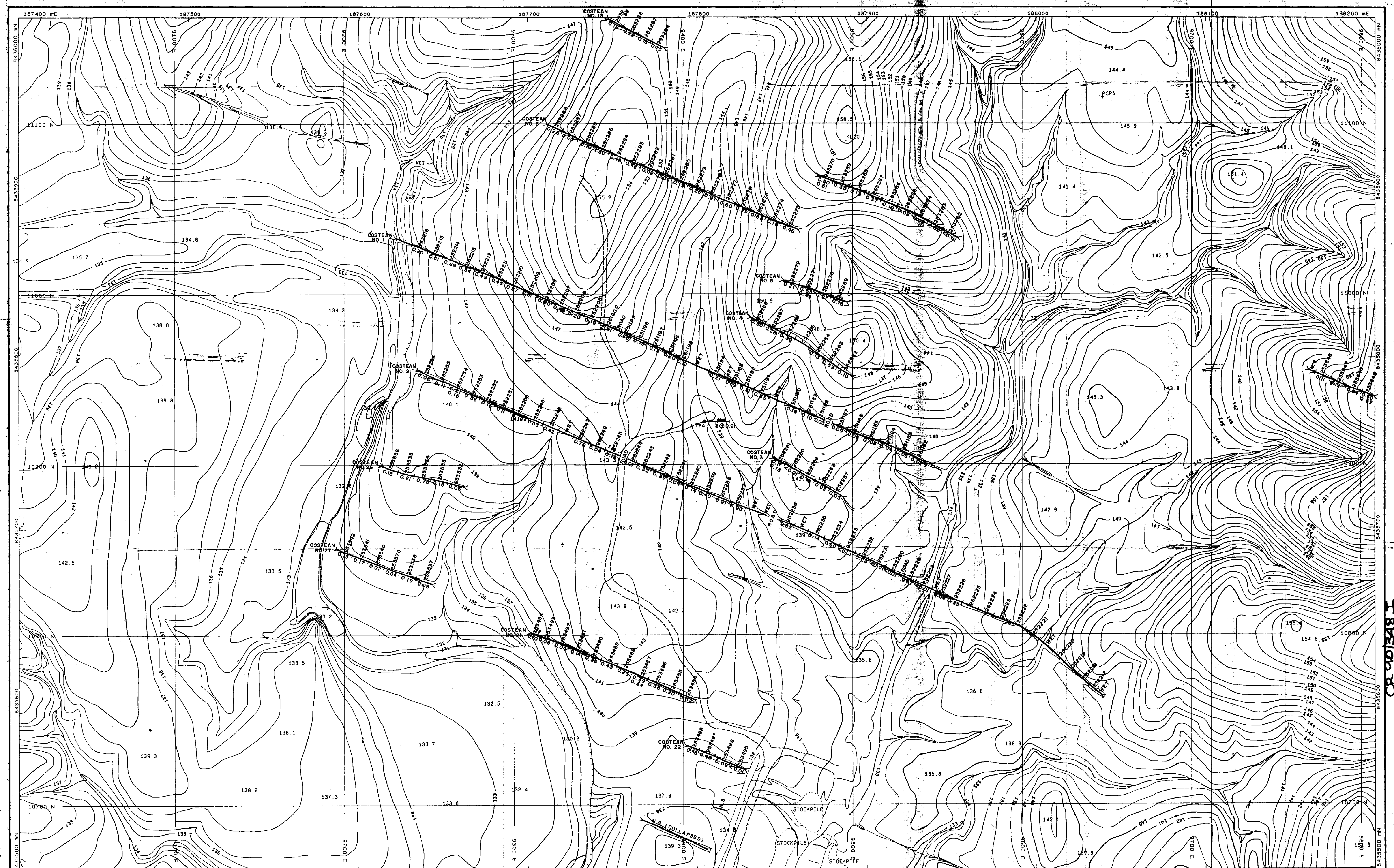
88100 188200 ME
 **Billiton Australia Gold Pty. Ltd.**

Project MOUNT TODD JOINT VENTURE
NORTHERN TERRITORY

**TOLLIS
COSTEAN SAMPLE LOCATIONS AND
Au (ppm) RESULTS**

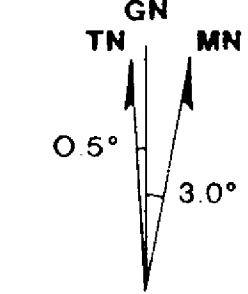
Author	FF	Dept	KATH	Scale	1:1000
Drawn	MS	Date	12/89	Revised	Date
Checked		Date		S'ced	Date
Sheet No.	7:19	Drawing No.			

CR90/348 3660C



LEGEND:
Costean Sample Location w/ 10m Interval
252222 Costean Sample Number
0.94 Au Results in ppm

AMG/PROJECT GRID NORTH



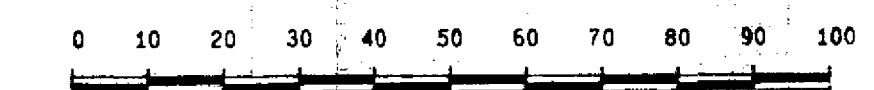
MAGNETIC NORTH IS CORRECT FOR 1975 AND MOVES WESTERLY BY 2 MILS (0.1°) IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN = 10000.000 N. 8400.000 E
AMG GRID = 8434837 180 mN. 186791.370 mE

187400 ME	187500 ME	187600 ME	187700 ME	187800 ME	187900 ME	188000 ME	188100 ME	188200 ME
843500 MN	843550 MN	843600 MN	843650 MN	843700 MN	843750 MN	843800 MN	843850 MN	843900 MN

SHEET 12

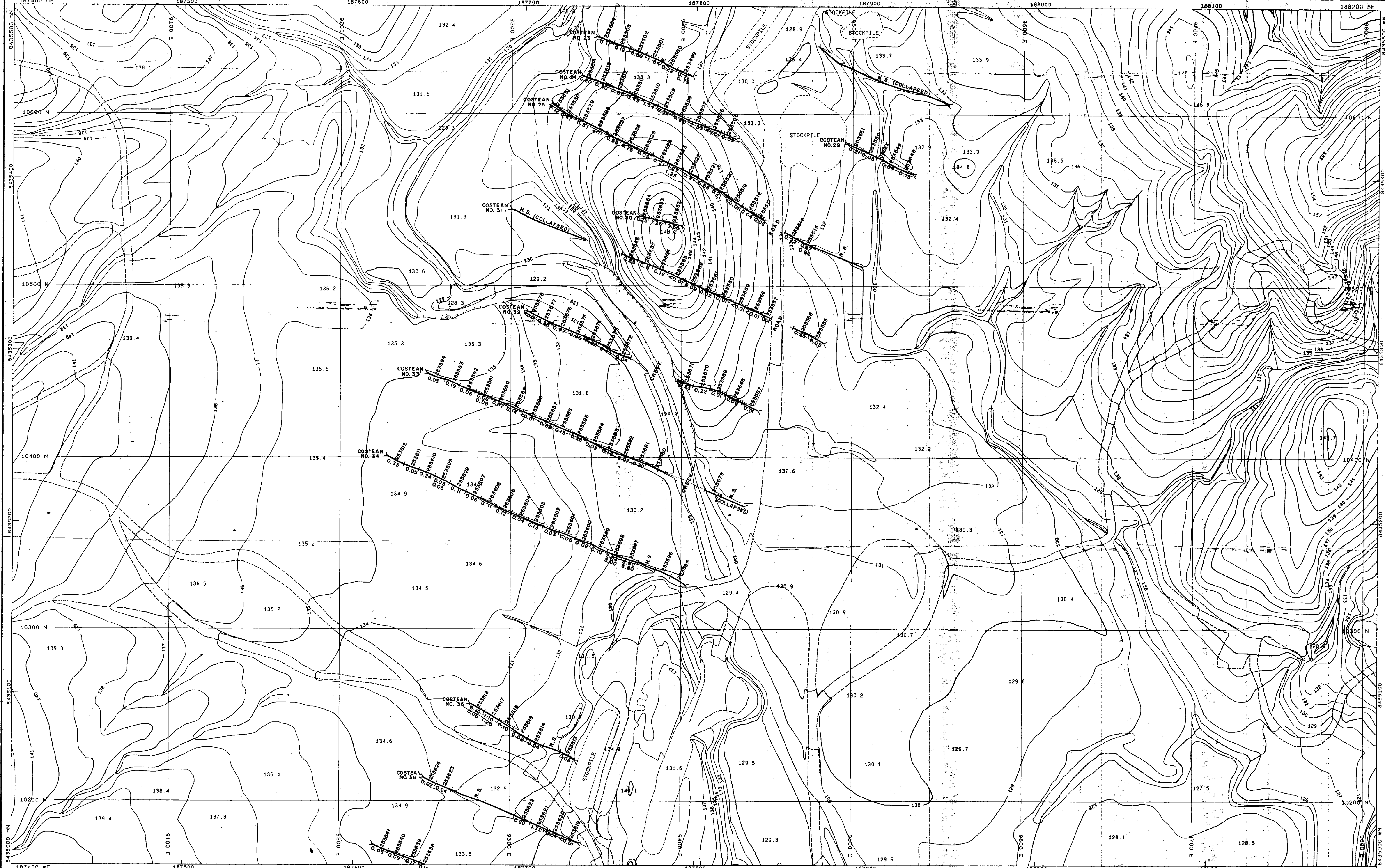
Fig 100



EARL JAMES & ASSOCIATES
SURVEY & MAPPING CONSULTANTS
DAPI WIN 108W 9124 94

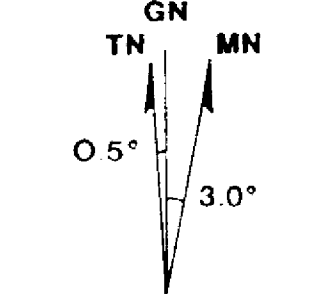
Horizontal Datum AMG
Vertical Datum AHD
Date of Photography 27-9-88

Billiton Australia Gold Pty Ltd	
Project MOUNT TODD JOINT VENTURE NORTHERN TERRITORY	
Title	
TOLLIS COSTEAN SAMPLE LOCATIONS AND Au (ppm) RESULTS	
Author FF	KATH Scale 1:1000
Drawn MS	12/89 Revised
Checked	S'ced
Sheet No. 12/4	Drawing No. HJ90/K17



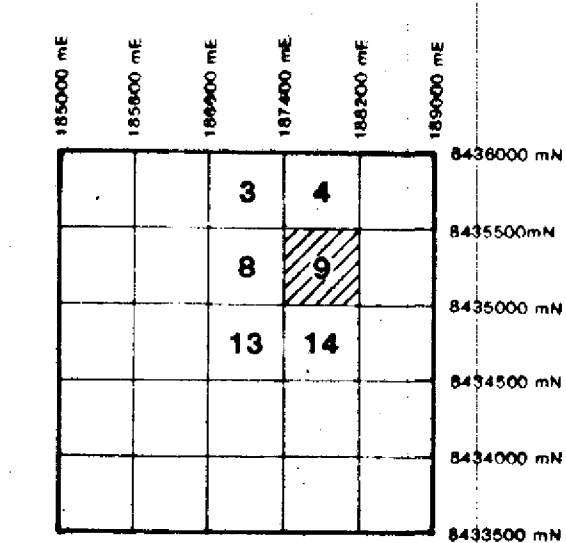
LEGEND:
K Costean Sample Location w/10m Interval
263517 Costean Sample Number
2.11 Au Results in ppm
N.S. Not Sampled

AMG/PROJECT GRID NORTH



MAGNETIC NORTH IS CORRECT FOR 1975 AND MOVES WESTERLY BY 2 MILS (0.1°) IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN = 10000 000 N, 8400 000 E
AMG GRID = 8434837 180 mN, 186791.370 mE



SHEET 12

Fig 101

EARL JAMES & ASSOCIATES
SURVEY & MAPPING CONSULTANTS
DARWIN 1000 812494

Horizontal Datum AMG
Vertical Datum AHD
Date of Photography 27-9-88

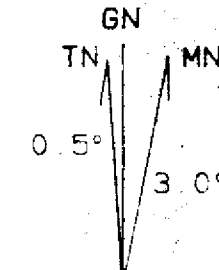
Billiton Australia Gold Pty Ltd.	
Project MOUNT TODD JOINT VENTURE NORTHERN TERRITORY	
Title	
TOLLIS COSTEAN SAMPLE LOCATIONS AND Au (ppm) RESULTS	
Author FF	KATH Scale 1:1000
Drawn MS	12/89 Revised
Checked	S'ced
Sheet No. 12/9	Drawing No. HJ90/1019



Disclaimer by Earl James & Associates:
This plan was produced at the request of Billiton (Aust) Gold for geological investigations only. It was produced from 1:5000 digital mapping data which was acquired from 1:15000 photography. Hence the horizontal accuracy of this plan does not meet standard specifications for 1:1000 scale mapping.

LEGEND:
—•— Costean Sample Location w/ 10m Interval
253824 Costean Sample Number
0.06 Au Results in ppm
N.S. Not Sampled

AMG/PROJECT GRID NORTH



MAGNETIC NORTH IS CORRECT FOR 1975 AND MOVES WESTERLY BY 2 MILS (0.1°) IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN = 10000 000 N, 6400 000E
AMG GRID = 8434837.180 MN, 186791.370 ME

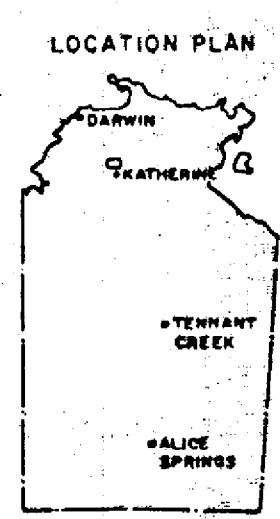
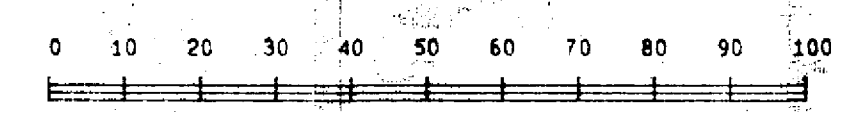


Fig 102

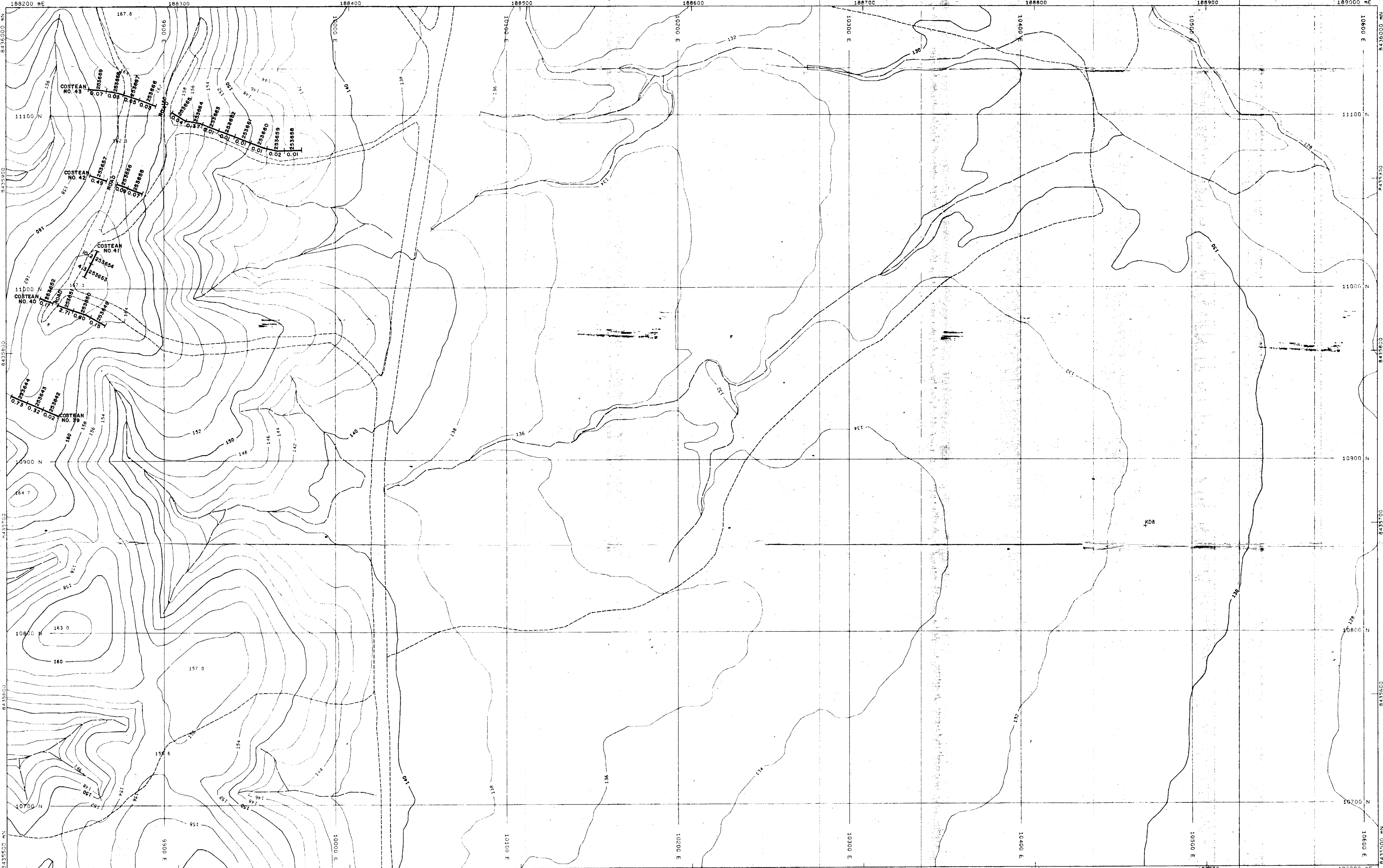


EARL JAMES & ASSOCIATES
DARWIN 1008 812494

Horizontal Datum	AMG	Author	FF	Dept	KATH	Scale	1:1000
Vertical Datum	AHD	Drawn	MS	Date	12/88	Revised	Date
Date of Photography	27-9-88	Checked	Date	IS	Coded	Date	
Sheet No.	7/25	Drawing No.					

Billiton Australia Gold Pty Ltd
Project MOUNT TODD JOINT VENTURE
NORTHERN TERRITORY
Title JONES BROTHERS
COSTEAN SAMPLE LOCATIONS AND
Au (ppm) RESULTS

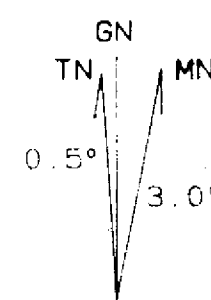
CR 90 1348 T



Disclaimer by Earl James & Associates:
This plan was produced at the request of Billiton (Aust) Gold for geological investigations only. It was produced from 1:5000 digital mapping data which was acquired from 1:15000 photography. Hence, the horizontal accuracy of this plan does not meet standard specifications for 1:1000 scale mapping.

LEGEND:
X - Costean Sample Location w/ 10m Interval
253669 - Costean Sample Number
4.3 - Au Results in ppm

AMS/PROJECT GRID NORTH



MAGNETIC NORTH IS CORRECT FOR 1975 AND MOVES WESTERLY BY 2 MILLS (0.1") IN ABOUT FIVE YEARS

PROJECT GRID ORIGIN = 10000 000 N, 8400 000E
AMS GRID = 8434837 180 MN, 186791.370 ME

LOCATION PLAN

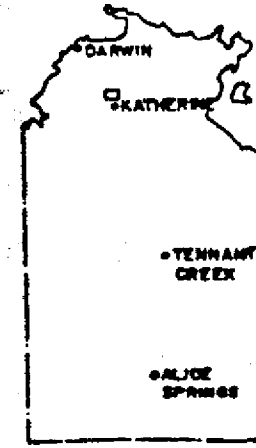


Fig 103

0 10 20 30 40 50 60 70 80 90 100

EARL JAMES & ASSOCIATES
SURVEY & MAPPING CONSULTANTS
NATHAN 1000 812454

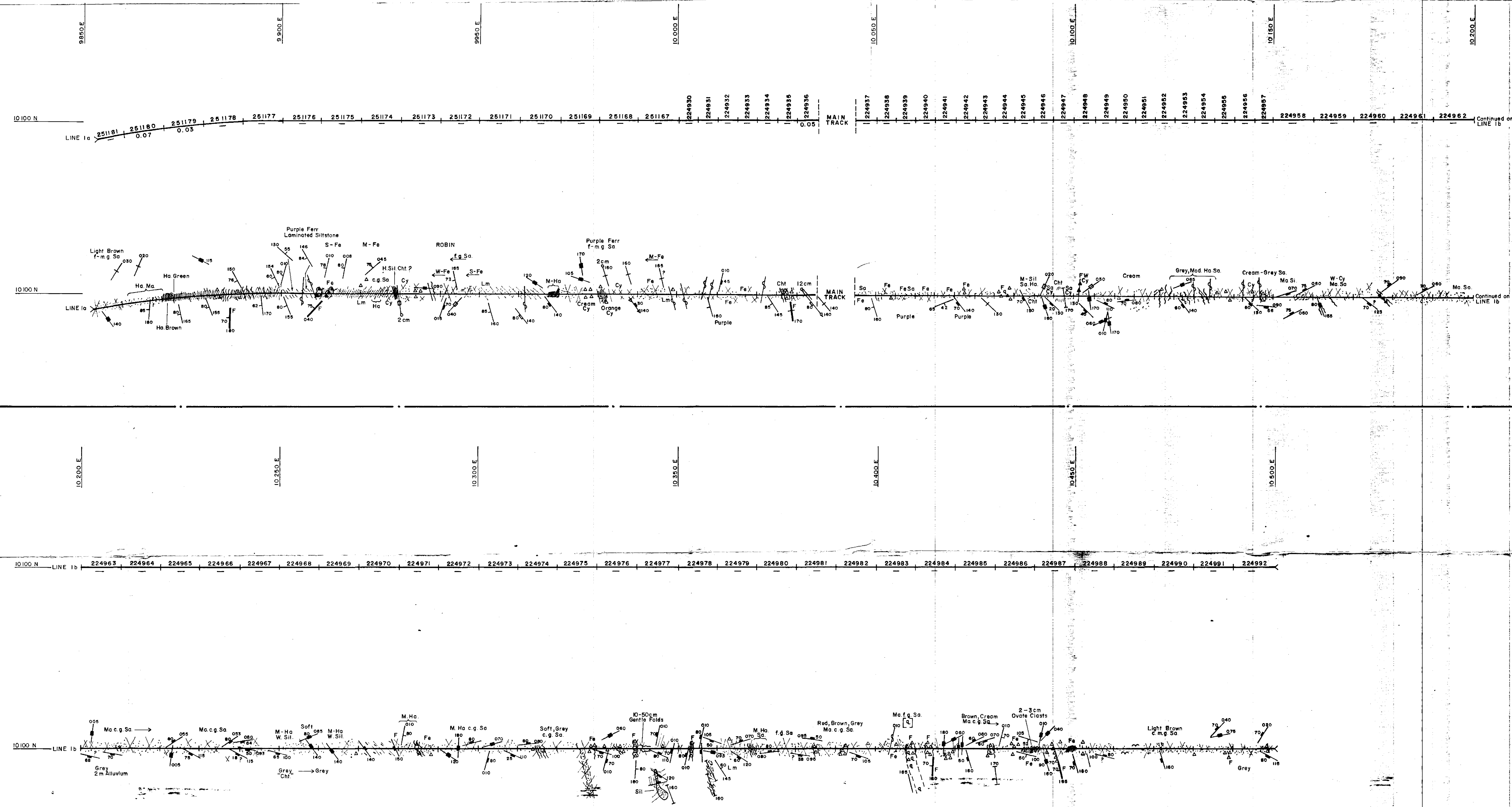
Horizontal Datum	AMS	Author	JP	Draft	KATH	Scale	1:1000
Vertical Datum	AHD	Drawn	MS	Date	12/89	Revised	Date
Date of Photography	27-9-88	Checked	Date	Scribed	Date		
Sheet No.	12/5	Drawn	JP				

Billiton Australia Gold Pty Ltd

Project MOUNT TODD JOINT VENTURE
NORTHERN TERRITORY

BATMAN & ROBIN PROSPECT
COSTEAN SAMPLE LOCATIONS AND
Au (ppm) RESULTS

CR 901348 I



LEGEND:

— K — Costean Sample Location w/5m & 10m Interval

251181 - Costean Sample Number

0.07 - Au Results in ppm

— <0.01 Au Results in ppm

St - Silty Greywacke

Sa - Sandy Greywacke

XXX - Multiple Fracture Sets

△△ - Fracture Breccia

▲▲ - Ferruginous Breccia

△ - Alluvium

— Dip & Strike of Bedding

— Dip & Strike of Joint

— Ferruginous Selvedges of Joints

040 F — Fault

160 — Cleavage

— Shear Zone

— Outcrop

— Subcrop

q — Quartz

Chl — Chert

Alteration:

Strength: W - Weak, M - Moderate, S - Strong

Type: Fe - Ferruginous, Sil - Siliceous

Hardness: Ha - Hard

Textures: Ma - Massive

Lm - Finely Laminated Bedding

fg - Fine Grained

m.g - Medium Grained

c.g - Course Grained

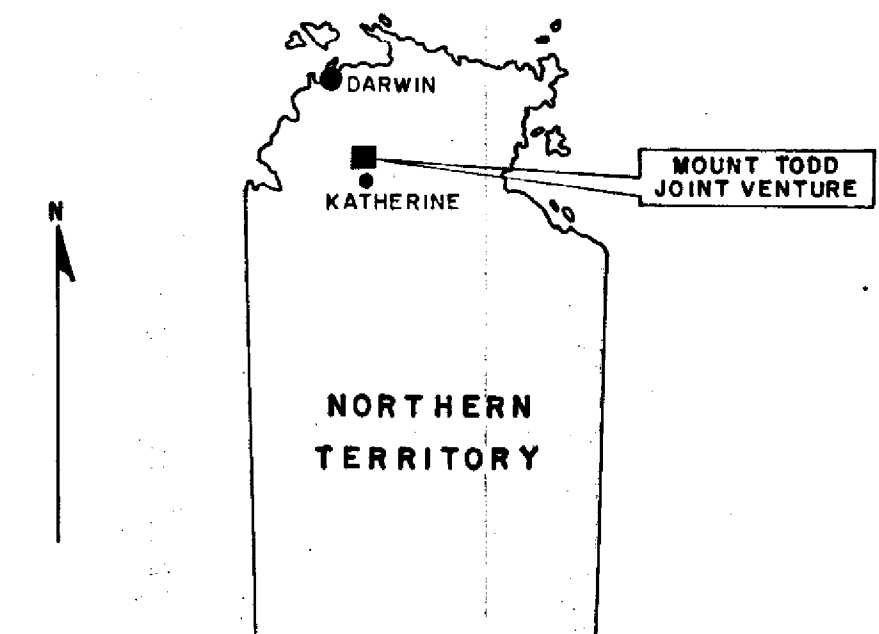
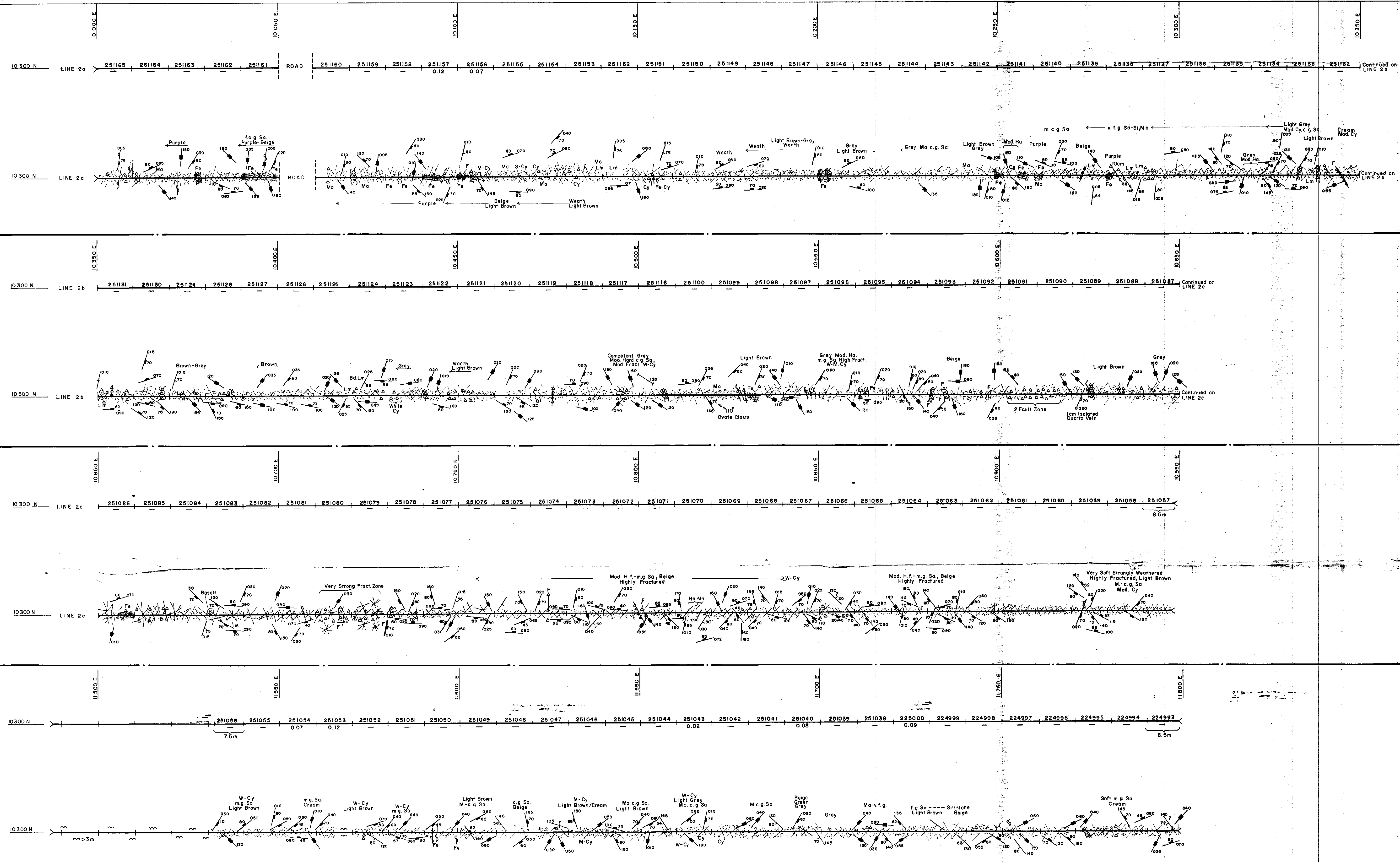


Fig 105

Billiton Australia Gold Pty. Ltd.			
Project		MOUNT TODD J.V. NORTHERN TERRITORY	
Title		ROBIN-PLANT SITE COSTEAN 10 100 N (LINE 1) SAMPLE LOCATIONS, Au (ppm) RESULTS AND GEOLOGY	
Author	AFC	Dept.	KATH
Drawn	MS	Date	12/89
Checked		Date	
Sheet No.		Drawing No.	

CR 90/348 I



LEGEND:

- Costean Sample Location w/ 5m Interval
- 251056 Costean Sample Number
- 0.12 Au Results in ppm
- <0.01 Au Results in ppm
- Sa Sandy Greywacke
- Si Silty Greywacke
- Fracture Breccia
- Ferruginous Breccia
- Alluvium
- Dip & Strike of Bedding
- Dip & Strike of Joint

- Ferruginous Selvedges on Joints
- Fault
- Cleavage
- Buck Quartz Reef, Dip, Strike & Thickness
- Brecciated Quartz Reef, Dip, Strike & Thickness
- Multiple Fracture Sets
- Shear Zone

- Alteration:
- Strength: W-Weak, M-Moderate, S-Strong
 - Type: Fe-Ferruginous
 - Hardness: Ha-Hard
 - Textures: Ma-Massive
 - Lm-Finely Laminated Bedding
 - f.g.-Fine Grained
 - m.g.-Medium Grained
 - c.g.-Course Grained
- Weathering: Weath

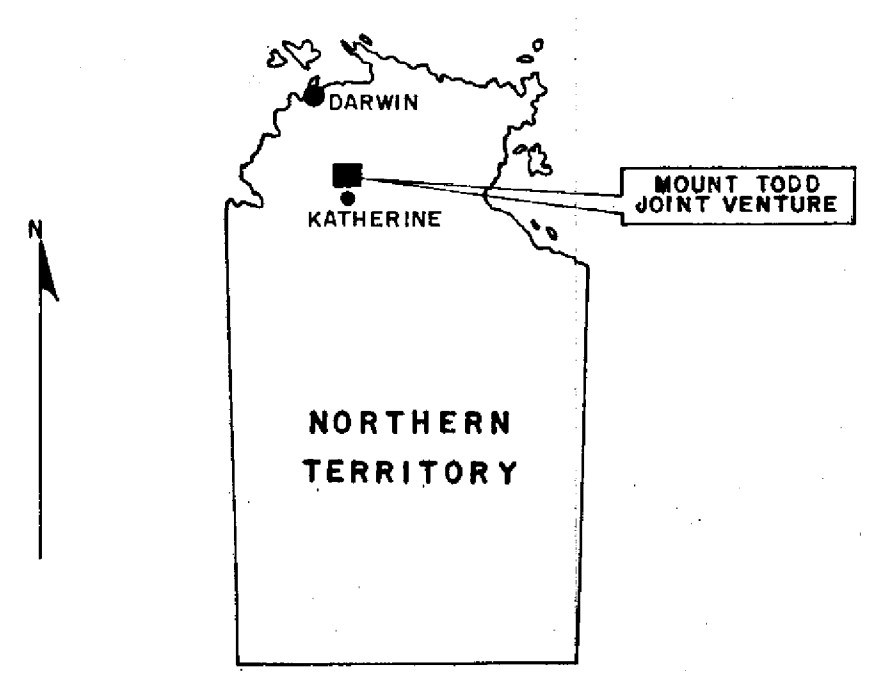


Fig 105

Billiton Australia Gold Pty Ltd.			
Project	MOUNT TODD J. V. NORTHERN TERRITORY		
Title	PLANT, SPILLWAY AND TAILINGS DAM SITES COSTEAN 10 300 N (LINE 2) SAMPLE LOCATIONS, Au (ppm) RESULTS AND GEOLOGY		
Author	AFC	Dept. KATH	Scale 1:500
Drawn	MS	Date 12/89	Revised Date
Checked		Date	Revised Date
Sheet No.			Drawing No.

CR901348 I

CR 90/348 I

11 000 N

11 000 N

11 000 N

11 000 N

10 700 E

10 750 E

10 800 E

10 850 E

10 900 E

10 900 E

11 000 E

11 050 E

11 100 E

11 150 E

11 200 E

11 200 E

11 250 E

11 300 E

11 350 E

11 400 E

11 450 E

11 500 E

11 500 E

11 550 E

11 600 E

- LEGEND:
- Hole Length w/ Bottom of Hole Geology
 - DR001 - Hole Sample Number
 - 0.2 - Au Results in ppm
 - <0.01 Au Results in ppm
 - Sandy Greywacke
 - Silty Greywacke
 - Tertiary Cemented Gravels

DR001
0.1

DR002
0.1

DR003
0.1

DR004

DR005

DR006

DR007

DR008

DR009

DR010

DR011

DR012

DR013

DR014

DR015

DR016

DR017

DR018

DR019

DR020

DR021

DR022
0.04

DR023
0.04

DR024
0.05

DR025
0.03

DR026

DR027
0.02

DR028

DR029
0.03

DR030

DR031

DR032

DR033

DR034

DR035

DR036

DR037

DR038
0.2

DR039
0.03

DR040

DR041

DR042

DR043

DR044

DR045

DR046

DR047
0.14

DR048

DR049

DR050

DR051

DR052

DR053

DR054

DR055

DR056

DR057

DR058

DR059

DR060

DR061

DR062

DR063

DR064

DR065

DR066
0.06

DR067

DR068

DR069

DR070

DR071
0.06

DR072

DR073

DR074

DR075

DR076

DR077

DR078

DR079

DR080

DR081

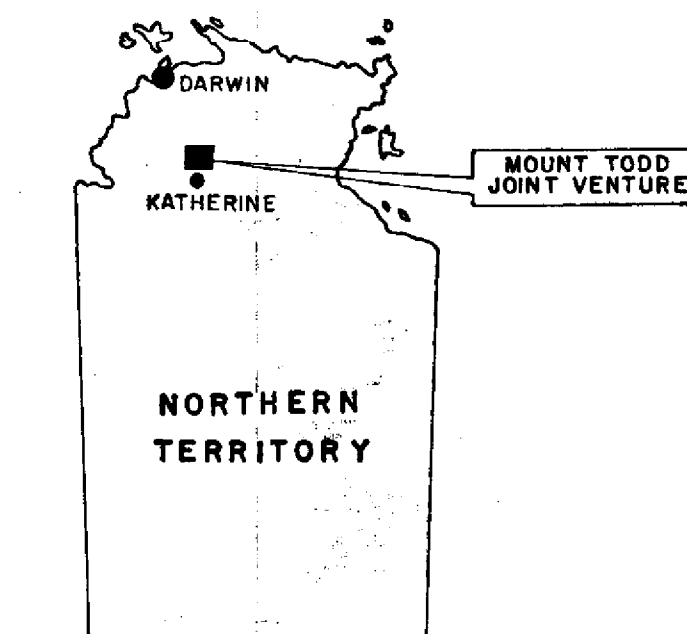
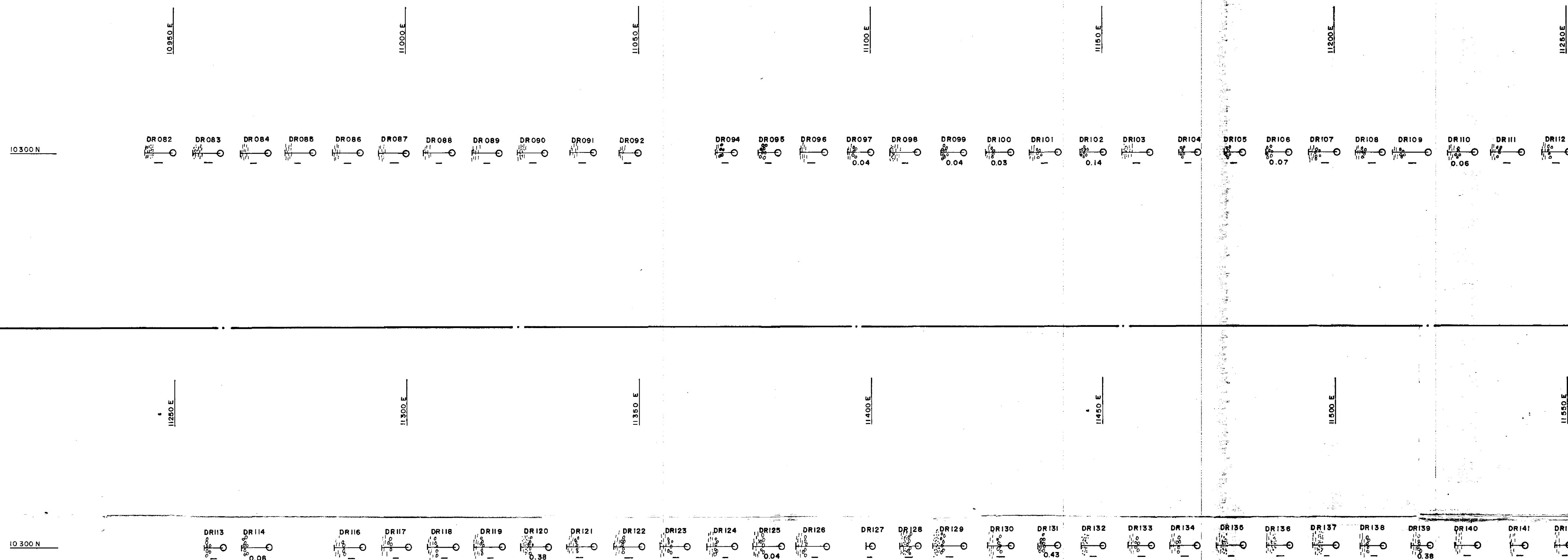


Fig 107

Bilbitt Australia Gold Pty Ltd.					
Project MOUNT TODD J. V. NORTHERN TERRITORY					
Title SPILLWAY AND TAILINGS DAM SITES RAB DRILLING 11 000 N SAMPLE LOCATIONS, Au (ppm) RESULTS AND GEOLOGY					
Author	FF	Dept.	KATH	Scale	1:500
Drawn	MS	Date	1 / 90	Revised	Date
Checked		Date		S'ced	Date
Sheet No.				Drawing No.	



LEGEND

○ Hole Length w/ Bottom of Hole Geology

DR082 - Hole Sample Number

0.04 Au Results in ppm

<0.01 Au Results in ppm

Sandy Greywacke

Silty Greywacke

Tertiary Cemented Gravels

0 10 20 30 40 50

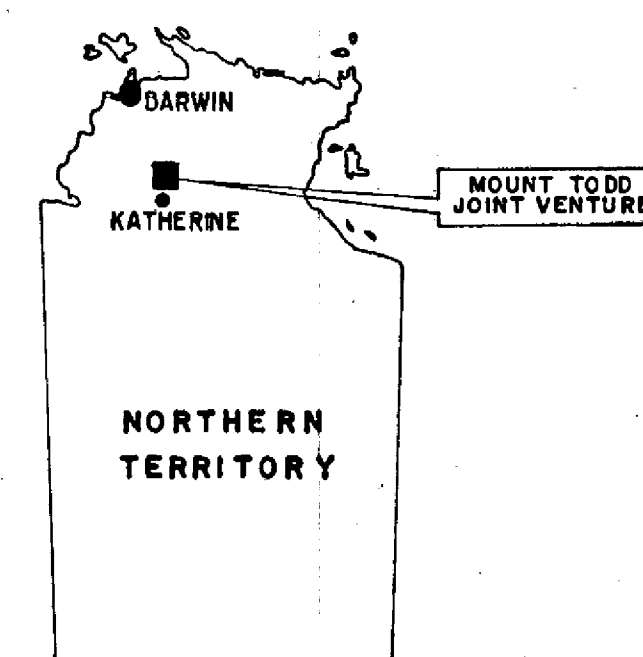


Fig 108

Project MOUNT TODD J. V. NORTHERN TERRITORY			
Title SPILLWAY AND TAILINGS DAM SITES RAB DRILLING 10 300 N SAMPLE LOCATIONS Au(ppm) RESULTS AND GEOLOGY			
Author FF	Dept. KATH	Scale 1:500	
Drawn MS	Date 1/90	Revised	Date
Checked	Date	Revised	Date
Sheet No.		Drawing No.	

CR 90/348 I