

NUMBER.....969.....

MARANBOY TINFIELD - NORTHERN TERRITORY

MINERAL LEASES 4D, 28D, 78D, 118D to 120D, 122D to 129D
217D and 263D

REPORT FOR 6 MONTHS MAY TO OCTOBER INCLUSIVE - 1981

Author: R.W. Dennis

Date: November, 1981

Copy No.: 3

**CARPENTARIA EXPLORATION COMPANY
PTY. LTD.**

TECHNICAL REPORT

NUMBER.....969.....

MARANBOY TINFIELD - NORTHERN TERRITORY

MINERAL LEASES 4D, 28D, 78D, 118D to 120D, 122D to 129D
217D and 263D

REPORT FOR 6 MONTHS MAY TO OCTOBER INCLUSIVE - 1981

Investigations Conducted By: R.W. Dennis

Submitted By: W.D. Smith

Typed By: M.E. Meikle

Author: R.W. Dennis

Date: November, 1981

Copy No.: 3

CR 1981-0316

CONTENTS

Sect.

	<u>LIST OF DRAWINGS</u>	1
1.	<u>INTRODUCTION</u>	1
2.	<u>TENURE</u>	1
3.	<u>LOCATION AND ACCESS</u>	1
4.	<u>DRILLING</u>	1
5.	<u>RESULTS</u>	1
	<u>APPENDIX 1 - GEOLOGICAL AND ASSAY LOGS</u>	2
	TABLES 1-3	1

LIST OF DRAWINGS

<u>Drawing No.</u>	<u>Title</u>	<u>Scale</u>	<u>Sect.</u>
1/4064	Location Map	1:250 000	3
21 136	Stannum Lode - Drill Hole Location	1: 1 000	3
21 137	Main Lode - Drill Hole Locations	1: 2 500	3
21 133	Main Lode - Cross Section - MAR 6	1: 500	3
21 134	Main Lode - Cross Section - MAR 7	1: 500	3
1/3593	Main Lode - Cross Section - MAR 8	1: 500	3
1/3595	Main Lode - Cross Section - MAR 9	1: 500	3
21 135	Main Lode - Cross Section - MAR 10	1: 500	3
21 132	Main Lode - Cross Section - MAR 11	1: 500	3
1/3591	Stannum King Lode - Cross Section - MAR 12	1: 500	3
21 131	Stannum King Lode - Cross Section - MAR 15, 14, 13	1: 500	3
1/3592	Stannum King Lode - Cross Section - MAR 16	1: 500	3
1/3594	Stannum King Lode - Cross Section - MAR 17	1: 500	3

MARANBOY TINFIELD - NORTHERN TERRITORY

MINERAL LEASES 4D, 28D, 78D, 118D to 120D, 122D to 129D
217D AND 263D

REPORT FOR 6 MONTHS MAY TO OCTOBER INCLUSIVE - 1981

1. INTRODUCTION

This report is an account of the drilling which has been done by Carpentaria Exploration Company Pty. Ltd. (C.E.C.) during the 6 month period ending October, 1981. For details of history, past production and geology refer to C.E.C. Technical Report No.924 by J. Fabray.

2. TENURE

C.E.C. has an agreement with the estate of the late H. Brennan for an option to purchase 16 leases at Maranboy. These leases cover the most prospective parts of the Main and Stannum King Lodes. The agreement expires on April 10, 1983.

3. LOCATION AND ACCESS

Maranboy is located approximately 310 km south-east of Darwin in the Northern Territory. The nearest town is Katherine, 60 km west of Maranboy.

Maranboy is connected to the Stuart Highway by 19 km of sealed road. Katherine is situated 50 km north of the Maranboy turnoff along the Stuart Highway. (See Location Plan 1/4064).

4. DRILLING

Twelve predominantly percussion holes were drilled by C.E.C. at Maranboy during the period. These have been designated Maranboy MAR 6 to MAR 17. Holes MAR 6 and MAR 11 were extended slightly by NQ diamond drilling due to difficulties with percussion drilling at depth.

4. DRILLING (CONT.)

The holes were designed to test for near surface extensions of outcropping Lode and for deeper extensions of the Lode below areas where mining has occurred in the past. For this reason both short angled holes and deeper vertical holes have been drilled. Table 1, below lists these holes.

TABLE 1

<u>Hole No.</u>	<u>Total Depth</u>	<u>Percussion</u>	<u>Diamond</u>	<u>Incline</u>	<u>Bearing</u>
MAR 6	216.4 m	209.8 m	6.6 m	-90 ⁰	
MAR 7	120.0 m	120.0 m	-	-90 ⁰	
MAR 8	60.0 m	60.0 m	-	-60 ⁰	200 ⁰ Mag.
MAR 9	60.0 m	60.0 m	-	-60 ⁰	206 ⁰ Mag.
MAR 10	213.0 m	213.0 m	-	-90 ⁰	-
MAR 11	193.4 m	183.0 m	10.4 m	-90 ⁰	
MAR 12	60.0 m	60.0 m	-	-70 ⁰	200 ⁰ Mag.
MAR 13	51.0 m	51.0 m	-	-70 ⁰	200 ⁰ Mag.
MAR 14	54.0 m	54.0 m	-	-70 ⁰	210 ⁰ Mag.
MAR 15	81.0 m	81.0 m	-	-90 ⁰	
MAR 16	60.0 m	60.0 m	-	-70 ⁰	200 ⁰ Mag.
MAR 17	54.0 m	54.0 m	-	-70 ⁰	220 ⁰ Mag.

The locations of the above holes are shown on Drawing Nos. 21 136, 21 137. Sections of the above holes are shown Drawing Nos. 1/3591 to 1/3595, 21 131 to 21 135.

5. RESULTS

All of the holes, except MAR 9 intersected quartz tourmaline Lode material. However, only 6 of the holes intersected tin mineralization with grades greater than 0.1% tin.

5. RESULTS (CONT.)

Three holes, MAR 11, 13 and 15, intersected grades greater than 1.0% tin. The best intersection was from MAR 11 located on the Osmond Lease of the Main Lode. MAR 11 intersected 30.0 m of tin ore, averaging 3.60% tin. The true thickness perpendicular to the Lode is estimated to be 5.3 m. MAR 13 and 15 were located on the old Progress lease of the Stannum King Lode. MAR 13 intersected 3.0 m of 3.5% tin (true thickness 2.4 m) or alternatively 7.0 m of 1.98% tin (true thickness 5.3 m). MAR 15 intersected 3.0 m of 1.35% tin (true thickness 0.8 m).

The results from holes with assays above 0.1% tin are listed below:

TABLE 2

<u>Hole No.</u>	<u>From (m)</u>	<u>To (m)</u>	<u>Thickness (m)</u>	<u>True Thickness (m)</u>	<u>Grade % Sn</u>
MAR 7	93.0	105.0	12.0	2.0	0.20
MAR 10	96.0	99.0	3.0	0.5	0.12
MAR 10	144.0	156.0	12.0	2.0	0.28
MAR 10	180.0	183.0	3.0	0.5	0.15
MAR 10	189.0	198.0	9.0	1.5	0.24
MAR 10	204.0	207.0	3.0	0.5	0.11
MAR 11	153.0	183.0	30.0	5.3	3.60
MAR 13	32.0	35.0	3.0	2.4	3.50
MAR 13	30.0	37.0	7.0	5.3	1.98
MAR 14	38.0	39.0	1.0	-	0.13
MAR 15	33.0	36.0	3.0	0.6	0.10
MAR 15	45.0	48.0	3.0	0.8	1.35
MAR 15	42.0	54.0	12.0	3.5	0.61

For further details the reader is directed to the assay results in Appendix 1.

5. RESULTS (CONT.)

Analysis of the above drilling results must be done in conjunction with the results of previous drilling which are summarised in Table 3, below:

TABLE 3

<u>Drill Hole</u>	<u>Drilled By</u>	<u>Best Intersection (true width)</u>
ANA 1	BMR 1958-59	2.96 m @ 0.19% Sn
ANA 2	BMR 1958-59	0.52 m @ 2.18% Sn*
ANA 3	BMR 1958-59	3.61 m @ 1.51% Sn*
ANA 4	BMR 1958-59	0.44 m @ 4.95% Sn*
ANA 5	BMR 1958-59	0.54 m @ 0.10% Sn
ANA 6	BMR 1958-59	1.64 m @ 2.05% Sn*
ANA 7	BMR 1958-59	2.40 m @ 0.43% Sn
ANA 8	BMR 1958-59	3.20 m @ 0.05% Sn
OS 1	BMR 1958-59	Lode faulted out
OS 2	BMR 1958-59	Lode faulted out
OS 3	BMR 1958-59	2.50 m @ 0.10% Sn
MENL 14	Metals Ex.1964-65	Abandoned
MENL 15	Metals Ex.1964-65	0.39 m @ 0.22% Sn
RAY 1	BMR 1971	No intersection
RAY 2	BMR 1971	1.60 m @ 1.49% Sn*
RAY 3	BMR 1971	2.10 m @ 1.00% Sn*
RAY 4	BMR 1971	No intersection
MAR 1	CEC 1980	0.6 m @ 0.16% Sn
MAR 2	CEC 1980	1.99 m @ 0.19% Sn
MAR 3	CEC 1980	0.20 m @ 5.60% Sn
MAR 4	CEC 1980	1.18 m @ 1.36% Sn*
MAR 5	CEC 1980	0.84 m @ 0.41% Sn

APPENDIX 1

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE	MS CODE	PAGE 1
MINE/PROSPECT: Maranboy			NAME: Maranboy 6 DDH			core/sludge/cutting/chip/ Core
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:
BEARING M/T/G:		INCLINE: -90°		LENGTH: 216.4 m	STARTED: 11/7/81	FINISHED: 14/7/81
HOLE/CORE SIZE: 5½" Percussion to 209.8 m, NY to 216.5 m				INTERVALS ASSAYED: All		
INTERVAL		RECOV.Y	DOWN HOLE SURVEY-Method: Eastman		date: 14/7/81	LOGGED BY: R.W. Dennis
from	to	length	m/kg	DESCRIPTION		
0.0	3.0	3.0	3.0	Precollar, weathered and oxidized argillite.		
3.0	6.0	3.0	3.0	Precollar, weathered, oxidized argillite. Minor dark silicified tourmaline vein material.		
6.0	9.0	3.0	3.0	Maroon argillite 90%, grey siltstone 10%. Minor quartz vein chips. Dark tourmalinized coatings occur on some fracture surfaces.		
9.0	12.0	3.0	3.0	Maroon argillite 65%, dark silicified argillite 35%. Minor vein quartz.		
12.0	15.0	3.0	3.0	Grey quartzites 60%, maroon quartzite argillites 30%, yellowish brown quartzites 10%.		
15.0	18.0	3.0	3.0	Spotty argillite. The rock consists of brown to grey vitric pieces approximately 0.1 mm diameter in a matrix of amorphous creamy silicates. Red oxidized fractures are common.		
18.0	21.0	3.0	3.0	Spotty argillites 90%, black quartz tourmaline and white vein quartz 10%.		
21.0	24.0	3.0	3.0	Arkose 50%, spotty argillite 10%, milky vein quartz 40%. The arkose contains quartz and pink feldspar fragments in a creamy white matrix. The fragments are matrix supported.		
24.0	27.0	3.0	3.0	Arkose and quartz argillite 70%, milky vein quartz 30%. Minor tourmaline, quartz chips with some hematite.		

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 6 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
27.0	30.0	3.0	3.0	Maroon argillite 50%, arkose 40%, milky vein quartz 10%.			
30.0	33.0	3.0	3.0	Maroon arkose 80%, creamy white quartz argillite 20%. Minor milky vein quartz.			
33.0	36.0	3.0	3.0	Maroon arkose, minor milky vein quartz.			
36.0	39.0	3.0	3.0	Maroon quartzite arkose and minor pale creamy arkose 95%, amber chert fragments 5%.			
39.0	42.0	3.0	3.0	Maroon quartzitic arkose 50%, amber silicified quartzite 50% minor tourmalinization along fractures.			
42.0	45.0	3.0	3.0	Maroon silicified argillite 80%, amber silicified arkosic quartzite 20%. Minor tourmalinization along fractures.			
45.0	48.0	3.0	3.0	Maroon silicified argillite, minor maroon silicified arkose, minor milky quartz veins, minor tourmalinization on fractures.			
48.0	51.0	3.0	3.0	Maroon silicified argillite 90%, maroon silicified arkose 10%.			
51.0	54.0	3.0	3.0	Maroon silicified arkose 60%, maroon silicified argillite 30%. Black tourmalinized, silicified arkose 10%.			
54.0	57.0	3.0	3.0	Maroon silicified argillite. Very minor black tourmalinized lode material.			
57.0	60.0	3.0	3.0	Maroon silicified argillite.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 3
MINE/PROSPECT: Maranboy				NAME: Maranboy 6 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
60.0	63.0	3.0	3.0	Maroon silicified argillite, minor tourmalinization along fractures. Mica associated with tourmalinization.			
63.0	66.0	3.0	3.0	Maroon silicified argillite, 90% black quartz - tourmaline lode material 10%.			
66.0	69.0	3.0	3.0	Maroon silicified argillite, minor tourmalinization on fractures.			
69.0	72.0	3.0	3.0	Maroon silicified argillite 90%, black tourmalinized lode material 10%.			
72.0	75.0	3.0	3.0	Maroon silicified argillite and minor silicified arkose 90%, black lode material 10%.			
75.0	78.0	3.0	3.0	Maroon silicified argillite and arkose. Minor tourmalinite.			
78.0	81.0	3.0	3.0	Maroon silicified arkose 70% and argillite 30%. Very minor tourmalinization on fractures.			
81.0	84.0	3.0	3.0	Maroon silicified arkose with minor maroon silicified argillite and some dark grey silicified arkose.			
84.0	87.0	3.0	3.0	Maroon silicified arkose, minor tourmalinization on fractures			
87.0	90.0	3.0	3.0	Maroon silicified arkose 90%, maroon silicified argillite 10%.			
90.0	93.0	3.0	3.0	Maroon silicified arkose with minor silicified argillite.			
93.0	96.0	3.0	3.0	Arkose sandstone, some is maroon whereas the majority has the natural hues of arkose. The maroon colour is therefore probably due to hematite formed during hydrothermal alteration.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 4
MINE/PROSPECT: Maranboy				NAME: Maranboy 6 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
96.0	99.0	3.0	3.0	Arkose sandstone, minor milky quartz and black tourmalinized arkose.			
99.0	102.0	3.0	3.0	Arkose 90%, argillite 10%. Minor tourmaline on fractures.			
102.0	105.0	3.0	3.0	Arkose sandstone 90%, black tourmaline quartz fracture fillings 10%, minor milky quartz. Country rock is silicified and tourmalinized up to 2 mm from fractures.			
105.0	108.0	3.0	3.0	Arkose sandstone 85%, black silicified and tourmalinized arkose 15%.			
108.0	111.0	3.0	3.0	Arkose 80%, red and pale yellow-green argillite 10%, tourmalinized arkose 10%.			
111.0	114.0	3.0	3.0	Maroon argillite with minor tourmalinized material.			
114.0	117.0	3.0	3.0	Brown altered arkose (softer drilling) 80%. Tourmaline veins 20%. Abundant mica in rock adjacent to the veins. Minor visible cassiterite in some quartz filled fractures.			
117.0	120.0	3.0	3.0	Altered hematitic arkose 80%, quartz tourmaline mica vein material 20%, minor visible cassiterite.			
120.0	123.0	3.0	3.0	Altered hematitic arkose 90%, black tourmalinized fracture fillings 10%.			
123.0	126.0	3.0	3.0	Hematitic arkose, minor amounts of tourmalinized vein and milky vein quartz.			
126.0	129.0	3.0	3.0	Grey to brownish grey argillite with minor hematitic arkose.			
129.0	132.0	3.0	3.0	Hematitic arkose 80%, dark quartz, tourmaline rock with minor mica 20%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 5
MINE/PROSPECT: Maranboy				NAME: Maranboy 6 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
132.0	135.0	3.0	3.0	Green and maroon argillite 60%, hematitic arkose 35%, tourmalinized rock 5%.			
135.0	138.0	3.0	3.0	Arkose 50%, green argillite to quartz arenite 50%.			
138.0	141.0	3.0	3.0	Hematitic arkose 90%, tourmalinized veins 5%, milky vein quartz 5%.			
141.0	144.0	3.0	3.0	Hematitic arkose 90%, milky vein quartz 10%.			
144.0	147.0	3.0	3.0	Hematitic arkose 90%, tourmalinized vein material 5%, milky vein quartz 5%.			
147.0	150.0	3.0	3.0	Hematitic arkose 50%, lode material 50%. Lode material consists of dark silicified and tourmalinized arkose with varying amounts of mica, milky quartz and hematite.			
150.0	153.0	3.0	3.0	Lode material 70%, hematitic and slightly silicified arkose 30%. Minor cassiterite is visible in the chips.			
153.0	156.0	3.0	3.0	Hematite, mica, quartz greisen altered from the original arkose 90%, silicified hematitic arkose 10%.			
156.0	159.0	3.0	3.0	Hematite, mica, quartz greisen derived from the original arkose. Minor black specks may be cassiterite.			
159.0	162.0	3.0	3.0	Hematite, mica, quartz greisenized arkose, minor black tourmaline quartz veins and greenish (chloritic?) material.			
162.0	165.0	3.0	3.0	Greisen (as above) 90%, green chloritic quartz material 10%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 6
MINE/PROSPECT: Maranboy				NAME: Maranboy 6 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
165.0	168.0	3.0	3.0	Greisen (as above) 90%, green chloritic granular quartz and argillite 10%.			
168.0	171.0	3.0	3.0	Hematitic greisen 50%, chloritic granular quartz and argillite 50%.			
171.0	174.0	3.0	3.0	Hematitic greisen 50%, chloritic granular quartz 50%.			
174.0	177.0	3.0	3.0	Tourmalinite (quartz - tourmaline rock) 50%, green chloritic quartz 35%, hematitic greisen 10%, milky quartz 10%.			
177.0	180.0	3.0	3.0	Green chloritic quartz 70%, hematitically altered arkose 30%, minor pieces of specular hematite and quartz - tourmaline rock.			
180.0	183.0	3.0	3.0	Tourmaline, quartz lode 90%, green chloritic quartz 10%, minor milky quartz, hematite vein material. Some visible cassiterite?			
183.0	186.0	3.0	3.0	Chloritic quartz 80%, hematitically altered arkose 20%, minor specular hematite and vein quartz.			
186.0	189.0	3.0	3.0	Tourmaline lode material 40%, hematite, mica quartz greisen 30%, chloritic quartz 30%. Minor visible tin in the lode material.			
189.0	192.0	3.0	3.0	Quartz, mica greisen 70%, green chloritic quartz 20%, quartz tourmaline rock 10%.			
192.0	195.0	3.0	3.0	Quartz tourmaline lode rock 80%, pale greenish quartz 10%, quartz, hematite, mica greisen 10%.			
195.0	198.0	3.0	3.0	Quartz tourmaline lode 90%, quartz, mica, hematite greisen 10%. The lode has an arkose			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 7
MINE/PROSPECT: Maranboy				NAME: Maranboy 6 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
198.0	201.0	3.0	3.0	Lode 20%, mica, hematite greisenized arkose 60%, green chloritic quartz 20%. Minor milky quartz veins with visible cassiterite.			
201.0	204.0	3.0	3.0	Lode 40%, mica, hematite greisen 40%, milky quartz 10%, green chloritic quartz 10%.			
204.0	207.0	3.0	3.0	Hematitic and micaceous altered argillite with very minor quartz vein and tourmalinized fragments.			
207.0	209.8	3.0	3.0	Moderately to strongly indurated argillite. Maroon colourations indicate hematite, mica alteration, green colouration indicate areas of chloritic alteration.			
				END OF 5½" percussion drilling			
				START OF N.Y. core			
209.8	210.4	0.6	0.6	Chloritically, hematite - mica altered argillite. Thickness of quartz tourmaline veinlets increases down hole. CBA of quartz, tourmaline veinlets 14°.			
210.4	210.9	0.5	0.5	Quartz tourmaline veinlet with a central 1 cm wide zone of crushed tourmaline and (cassiterite?) in a soft chloritic matrix.			
210.9	211.8	0.9	0.9	Chloritically and hematitically altered, brecciated argillite with minor tourmalinized breccia fragments.			
211.8	212.1	0.3	0.3	Hematite - mica greisenized argillite.			
212.1	212.7	0.6	0.6	Fault breccia. Poorly consolidated in part, in other places cemented by milky quartz and mylonite			

[illegible]

PROSPECT: MARANROY

PERCUSSION DIAMOND DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR6 D	SUR	216.4	0.00	0.00	0.00	0 0	-90 0	110781	140781	140MM 209.8 NY	

D I S T A N C E			A S S A Y R E S U L T S			ORE-BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM		SN	
0.0	3.0	3.0	3.0	100.0	450.0		1350.0	
3.0	6.0	3.0	3.0	100.0	110.0		1680.0	
6.0	9.0	3.0	3.0	100.0	70.0		1890.0	
9.0	12.0	3.0	3.0	100.0	760.0		4170.0	
12.0	15.0	3.0	3.0	100.0	300.0		5070.0	
15.0	18.0	3.0	3.0	100.0	34.0		5172.0	
18.0	21.0	3.0	3.0	100.0	1350.0		9222.0	
21.0	24.0	3.0	3.0	100.0	60.0		9402.0	
24.0	27.0	3.0	3.0	100.0	46.0		9540.0	
27.0	30.0	3.0	3.0	100.0	30.0		9630.0	
30.0	33.0	3.0	3.0	100.0	34.0		9732.0	
33.0	36.0	3.0	3.0	100.0	40.0		9852.0	
36.0	39.0	3.0	3.0	100.0	22.0		9918.0	
39.0	42.0	3.0	3.0	100.0	30.0		10008.0	
42.0	45.0	3.0	3.0	100.0	65.0		10203.0	
45.0	48.0	3.0	3.0	100.0	460.0		11583.0	
48.0	51.0	3.0	3.0	100.0	230.0		12273.0	
51.0	54.0	3.0	3.0	100.0	310.0		13203.0	
54.0	57.0	3.0	3.0	100.0	115.0		13548.0	
57.0	60.0	3.0	3.0	100.0	115.0		13893.0	
60.0	63.0	3.0	3.0	100.0	105.0		14208.0	
63.0	66.0	3.0	3.0	100.0	115.0		14553.0	
66.0	69.0	3.0	3.0	100.0	250.0		15303.0	
69.0	72.0	3.0	3.0	100.0	760.0		17583.0	
72.0	75.0	3.0	3.0	100.0	310.0		18513.0	
75.0	78.0	3.0	3.0	100.0	155.0		18978.0	
78.0	81.0	3.0	3.0	100.0	155.0		19443.0	
81.0	84.0	3.0	3.0	100.0	145.0		19878.0	
84.0	87.0	3.0	3.0	100.0	140.0		20298.0	
87.0	90.0	3.0	3.0	100.0	185.0		20853.0	
90.0	93.0	3.0	3.0	100.0	160.0		21333.0	
93.0	96.0	3.0	3.0	100.0	75.0		21552.0	
96.0	99.0	3.0	3.0	100.0	60.0		21732.0	
99.0	102.0	3.0	3.0	100.0	160.0		22218.0	
102.0	105.0	3.0	3.0	100.0	100.0		22518.0	
105.0	108.0	3.0	3.0	100.0	75.0		22743.0	
108.0	111.0	3.0	3.0	100.0	75.0		22968.0	

PROSPECT: MARANBOY

PERCUSSION DIAMOND DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR6	D	SUR	216.4	0.00	0.00	0 0	-90 0	110781	140781	140MM 209.8 NY	

D I S T A N C E						A S S A Y R E S U L T S		ORE- BODY	P R O G R E S S I V E SN	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM					
111.0	114.0	3.0	3.0	100.0	60.0				23148.0	
114.0	117.0	3.0	3.0	100.0	80.0				23388.0	
117.0	120.0	3.0	3.0	100.0	50.0				23538.0	
120.0	123.0	3.0	3.0	100.0	70.0				23748.0	
123.0	126.0	3.0	3.0	100.0	38.0				23862.0	
126.0	129.0	3.0	3.0	100.0	44.0				23994.0	
129.0	132.0	3.0	3.0	100.0	46.0				24132.0	
132.0	135.0	3.0	3.0	100.0	75.0				24357.0	
135.0	138.0	3.0	3.0	100.0	55.0				24522.0	
138.0	141.0	3.0	3.0	100.0	32.0				24618.0	
141.0	144.0	3.0	3.0	100.0	14.0				24660.0	
144.0	147.0	3.0	3.0	100.0	28.0				24744.0	
147.0	150.0	3.0	3.0	100.0	85.0				24999.0	
150.0	153.0	3.0	3.0	100.0	60.0				25179.0	
153.0	156.0	3.0	3.0	100.0	60.0				25359.0	
156.0	159.0	3.0	3.0	100.0	70.0				25569.0	
159.0	162.0	3.0	3.0	100.0	42.0				25695.0	
162.0	165.0	3.0	3.0	100.0	38.0				25809.0	
165.0	168.0	3.0	3.0	100.0	38.0				25923.0	
168.0	171.0	3.0	3.0	100.0	46.0				26061.0	
171.0	174.0	3.0	3.0	100.0	55.0				26226.0	
174.0	177.0	3.0	3.0	100.0	130.0				26616.0	
177.0	180.0	3.0	3.0	100.0	130.0				27006.0	
180.0	183.0	3.0	3.0	100.0	135.0				27411.0	
183.0	186.0	3.0	3.0	100.0	125.0				27786.0	
186.0	189.0	3.0	3.0	100.0	110.0				28116.0	
189.0	192.0	3.0	3.0	100.0	180.0				28656.0	
192.0	195.0	3.0	3.0	100.0	390.0				29826.0	
195.0	198.0	3.0	3.0	100.0	115.0				30171.0	
198.0	201.0	3.0	3.0	100.0	85.0				30426.0	
201.0	204.0	3.0	3.0	100.0	80.0				30666.0	
204.0	207.0	3.0	3.0	100.0	30.0				30756.0	
207.0	209.8	2.8	2.8	100.0	44.0				30879.2	
209.8	210.4	0.6	0.6	100.0	90.0				30933.2	
210.4	210.9	0.5	0.5	100.0	90.0				30978.2	
210.9	211.8	0.9	0.9	100.0	90.0				31059.2	
211.8	216.4	4.6	4.6	100.0	***					

PROSPECT: MARANBOY

PERCUSSION DIAMOND DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	
MAR6	D	SUR	216.4	0.00	0.00	0 0	-90 0	110781	140781	140MM 209.8 NY	*** = NOT ASSAYED

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 1
MINE / PROSPECT: Maranboy				NAME: Maranboy 7 PDH		core/sludge/cutting/chip/	
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G:			INCLINE: -90°		LENGTH: 120m		STARTED: 14/7/81 FINISHED: 15/7/81
HOLE/CORE SIZE: 5½" Percussion				INTERVALS ASSAYED:			
INTERVAL		RECOV.Y	DOWN HOLE SURVEY-Method:		date:	by:	LOGGED BY: R.W. Dennis
from	to	length	m/kg	DESCRIPTION			
0	3.0	3.0	3.0	Precollar, weathered surface rock, pale green argillites, quartz vein material and arenites.			
3.0	6.0	3.0	3.0	Precollar, weathered argillites and arenites. Pale green and maroon colourations.			
6.0	9.0	3.0	3.0	Maroon argillite 80%, pale green argillite 10%, maroon weathered arkose 10%. Minor milky vein quartz.			
9.0	12.0	3.0	3.0	Maroon argillite 80%, pale green argillite 10%, black tourmaline, quartz veins 10%.			
12.0	15.0	3.0	3.0	Pale green argillite 60%, maroon weathered arkose 40%.			
15.0	18.0	3.0	3.0	Arkose sandstone 70%, maroon argillite 20%, milky vein quartz 10%.			
18.0	21.0	3.0	3.0	Brown weathered argillite and arkose. Argillite 80%, arkose 20%.			
21.0	24.0	3.0	3.0	Arkose, both unweathered, greenish in colour and weathered brown 90%, pale green argillite 10%.			
24.0	27.0	3.0	3.0	Weathered and unweathered arkose 80%, pale green argillite 20%.			
27.0	30.0	3.0	3.0	Weathered and unweathered arkose 80%, pale green argillite 20%.			
30.0	33.0	3.0	3.0	Maroon arkose 60%, pale green quartz arenite 40%. Minor vein quartz.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 7 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
33.0	36.0	3.0	3.0	Maroon argillite 70%, maroon coloured arkose 30%.			
36.0	39.0	3.0	3.0	Maroon argillite 50%, olive green argillite 10%, arkose sandstone 40%.			
39.0	42.0	3.0	3.0	Quartzitic arkose 70%, maroon argillite 20%, quartz, orange hematitic chert 10%.			
42.0	45.0	3.0	3.0	Arkose 60%, maroon and green argillite 40%.			
45.0	48.0	3.0	3.0	Maroon argillite 80%, arkose 20%, minor quartz, orange chert boarded veins.			
48.0	51.0	3.0	3.0	Fine grained quartzitic arkose 90%, argillite 10%, minor quartz, orange chert veins.			
51.0	54.0	3.0	3.0	Maroon argillite 80%, green cherty argillite 20%, minor arkose.			
54.0	57.0	3.0	3.0	Maroon argillite 70%, green cherty argillite 20% arkose 10%.			
57.0	60.0	3.0	3.0	Reddish brown hematitically altered arkose 90%, maroon argillite 10%.			
60.0	63.0	3.0	3.0	Maroon argillite 50%, arkose 50%.			
63.0	66.0	3.0	3.0	Maroon argillite 90%, maroon altered arkose 10%.			
66.0	69.9	3.0	3.0	Maroon and olive green cherty argillite 70%, arkose sandstone 30%.			
69.0	72.0	3.0	3.0	Maroon and greenish silicified arkose 85%, argillite 15%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 3
MINE/PROSPECT: Maranboy				NAME: Maranboy 7 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
72.0	75.0	3.0	3.0	Reddish brown arkose with minor greenish silicified arkose very minor vein quartz.			
75.0	78.0	3.0	3.0	Maroon argillite 70%, arkose 20%, green cherty argillite 10%.			
78.0	81.0	3.0	3.0	Abundant clay in this interval. Maroon argillite 90% arkose 10%.			
81.0	84.0	3.0	3.0	Maroon argillite 90%, arkose sandstone 10%.			
84.0	87.0	3.0	3.0	Maroon argillite 50%, arkose 50%, minor black tourmaline quartz vein material.			
87.0	90.0	3.0	3.0	Altered arkose sandstone, the arkose has developed a purplish colouration with feldspars in the arkose being converted to clays. Quartz and tourmaline occurs on fractures.			
90.0	93.0	3.0	3.0	Silicified arkose sandstone 90%, black tourmaline quartz lode rock 10% minor milky and clear quartz.			
93.0	96.0	3.0	3.0	Olive green silicified arkose 50%, tourmalinized lode rock 40%. Hematite rich altered arkose and milky quartz 10%.			
96.0	99.0	3.0	3.0	Black tourmaline, quartz 90%, hematite, mica greisenized arkose 10%.			
99.0	102.0	3.0	3.0	Lode rock 60%. Hematite, mica greisenized arkose 40%. Lode rock is silicified and tourmalinized arkose.			
102.0	105.0	3.0	3.0	Lode rock 70%, milky quartz and orange hematitic jasper vein material 30%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

[illegible]

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR7	P	SUR	120.0	0.00	0.00	0 0	-90 0	140781	150781	14CMM	

D I S T A N C E						A S S A Y R E S U L T S		ORE- BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LN G T H (M)	RECOVERY (M)	%	SN PPM				SN	
0.0	3.0	3.0	3.0	100.0	115.0				345.0	
3.0	6.0	3.0	3.0	100.0	160.0				825.0	
6.0	9.0	3.0	3.0	100.0	38.0				939.0	
9.0	12.0	3.0	3.0	100.0	20.0				999.0	
12.0	15.0	3.0	3.0	100.0	34.0				1101.0	
15.0	18.0	3.0	3.0	100.0	40.0				1221.0	
18.0	21.0	3.0	3.0	100.0	20.0				1281.0	
21.0	24.0	3.0	3.0	100.0	42.0				1407.0	
24.0	27.0	3.0	3.0	100.0	34.0				1509.0	
27.0	30.0	3.0	3.0	100.0	60.0				1689.0	
30.0	33.0	3.0	3.0	100.0	165.0				2184.0	
33.0	36.0	3.0	3.0	100.0	120.0				2544.0	
36.0	39.0	3.0	3.0	100.0	44.0				2676.0	
39.0	42.0	3.0	3.0	100.0	30.0				2766.0	
42.0	45.0	3.0	3.0	100.0	38.0				2880.0	
45.0	48.0	3.0	3.0	100.0	38.0				2994.0	
48.0	51.0	3.0	3.0	100.0	40.0				3114.0	
51.0	54.0	3.0	3.0	100.0	40.0				3234.0	
54.0	57.0	3.0	3.0	100.0	46.0				3372.0	
57.0	60.0	3.0	3.0	100.0	44.0				3504.0	
60.0	63.0	3.0	3.0	100.0	30.0				3594.0	
63.0	66.0	3.0	3.0	100.0	44.0				3726.0	
66.0	69.0	3.0	3.0	100.0	46.0				3864.0	
69.0	72.0	3.0	3.0	100.0	30.0				3954.0	
72.0	75.0	3.0	3.0	100.0	72.0				4020.0	
75.0	78.0	3.0	3.0	100.0	30.0				4110.0	
78.0	81.0	3.0	3.0	100.0	28.0				4194.0	
81.0	84.0	3.0	3.0	100.0	250.0				4944.0	
84.0	87.0	3.0	3.0	100.0	85.0				5199.0	
87.0	90.0	3.0	3.0	100.0	50.0				5349.0	
90.0	93.0	3.0	3.0	100.0	100.0				5649.0	
93.0	96.0	3.0	3.0	100.0	1400.0				9349.0	
96.0	99.0	3.0	3.0	100.0	2450.0				17199.0	
99.0	102.0	3.0	3.0	100.0	2800.0				25599.0	
102.0	105.0	3.0	3.0	100.0	1250.0				29349.0	
105.0	108.0	3.0	3.0	100.0	75.0				29574.0	
108.0	111.0	3.0	3.0	100.0	80.0				29814.0	

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING	INCLINE	STARTED DATE	FINISHED DATE	HOLE SIZE	
						DDD MM	DD MM				*** = NOT ASSAYED
MAR7 P	SUR	120.0	0.00	0.00	0.00	0 0	-90 0	140781	150781	140MM	

D I S T A N C E					A S S A Y R E S U L T S		ORE-BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	SN			SN		
			%	PPM					
111.0	114.0	3.0	3.0	100.0	125.0		30189.0		
114.0	117.0	3.0	3.0	100.0	120.0		30549.0		
117.0	120.0	3.0	3.0	100.0	230.0		31239.0		

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR7	P	SUR	120.0	0.00	0.00	0 0	-90 0	140781	150781	140MM	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 1
MINE / PROSPECT: Maranboy			NAME: Maranboy 8 DDH		core/sludge/cutting/chip/		
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G: 200° MAG		INCLINE: -60°		LENGTH: 60m		STARTED: 15/7/81	FINISHED: 16/7/81
HOLE/CORE SIZE: 5 1/2" Percussion				INTERVALS ASSAYED: All			
INTERVAL		RECOV.Y		DOWN HOLE SURVEY-Method:		date:	by:
						LOGGED BY: R.W. Dennis	
from	to	length	m/kg	DESCRIPTION			
0.0	3.0	3.0	3.0	Precollar. Surface weathered material, clay, manganese nodules, clay cemented sand.			
3.0	6.0	3.0	3.0	As above.			
6.0	9.0	3.0	3.0	Pale green micaaceous argillite 50%, red weathered siltstone 50%.			
9.0	12.0	3.0	3.0	Maroon weathered arkose 60%, pale green argillite 40%, minor milky vein quartz.			
12.0	15.0	3.0	3.0	Maroon, weathered arkose 90%, argillite 10%.			
15.0	18.0	3.0	3.0	Maroon argillite 60%, maroon arkose sandstone 40%.			
18.0	21.0	3.0	3.0	As above.			
21.0	24.0	3.0	3.0	Maroon argillite and arkose 90%, black tourmalinized and silicified arkose lode 10%.			
24.0	27.0	3.0	3.0	Maroon arkose and argillite.			
27.0	30.0	3.0	3.0	Maroon arkose sandstone 80%, maroon argillite 20%. Minor vein quartz.			
30.0	33.0	3.0	3.0	Indurated arkose 60%, altered micaceous argillite 40%.			
33.0	36.0	3.0	3.0	Micaceously altered argillite and arkose sandstone.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 8 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
36.0	37.0	1.0	1.0	Maroon hematite, mica altered arkose with minor argillite.			
37.0	38.0	1.0	1.0	Maroon with minor greenish argillite 90%, maroon coloured arkose 10%.			
38.0	39.0	1.0	1.0	Maroon coloured arkose. Many large fragments bordered with yellow weathered quartz veins. This material may be contamination from up hole.			
39.0	40.0	1.0	1.0	Quartzitic arkose sandstone with minor argillite.			
40.0	41.0	1.0	1.0	Maroon coloured argillite 50%, arkose 50% very minor milky vein quartz.			
41.0	42.0	1.0	1.0	Arkose 60%, argillite 40%, minor milky quartz.			
42.0	43.0	1.0	1.0	Maroon hematite, mica altered arkose 80%, argillite 20%, minor black tourmaline, quartz lode material.			
43.0	44.0	1.0	1.0	Maroon hematite, mica altered arkose which contains minor quartz, tourmaline veins.			
44.0	45.0	1.0	1.0	Maroon hematite, mica altered quartzitic arkose which contains minor maroon argillite, yellow green cherty argillite and milky vein quartz.			
45.0	46.0	1.0	1.0	Maroon hematite, mica altered arkose 80%, black tourmaline, quartz lode rock 10%, milky quartz 10%.			
46.0	47.0	1.0	1.0	Maroon hematite, mica greisenized arkose 45%, green silicified arkose 45%, black tourmaline, quartz lode and milky quartz 10%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

[illegible]

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING	INCLINE	STARTED DATE	FINISHED DATE	HOLE SIZE	
						DDD MM	DD MM				*** = NOT ASSAYED
MAR8 P	SUR	60.0	0.00	0.00	0.00	200 0	-60 0	150781	160781	140MM	

D I S T A N C E			A S S A Y R E S U L T S			ORE-BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM		SN	
0.0	3.0	3.0	3.0	100.0	165.0		495.0	
3.0	6.0	3.0	3.0	100.0	80.0		735.0	
6.0	9.0	3.0	3.0	100.0	18.0		789.0	
9.0	12.0	3.0	3.0	100.0	14.0		831.0	
12.0	15.0	3.0	3.0	100.0	20.0		891.0	
15.0	18.0	3.0	3.0	100.0	30.0		981.0	
18.0	21.0	3.0	3.0	100.0	22.0		1047.0	
21.0	24.0	3.0	3.0	100.0	32.0		1143.0	
24.0	27.0	3.0	3.0	100.0	26.0		1221.0	
27.0	30.0	3.0	3.0	100.0	8.0		1245.0	
30.0	33.0	3.0	3.0	100.0	14.0		1287.0	
33.0	36.0	3.0	3.0	100.0	22.0		1353.0	
36.0	37.0	1.0	1.0	100.0	75.0		1428.0	
37.0	38.0	1.0	1.0	100.0	48.0		1476.0	
38.0	39.0	1.0	1.0	100.0	44.0		1520.0	
39.0	40.0	1.0	1.0	100.0	32.0		1552.0	
40.0	41.0	1.0	1.0	100.0	24.0		1576.0	
41.0	42.0	1.0	1.0	100.0	24.0		1600.0	
42.0	43.0	1.0	1.0	100.0	30.0		1630.0	
43.0	44.0	1.0	1.0	100.0	30.0		1660.0	
44.0	45.0	1.0	1.0	100.0	38.0		1698.0	
45.0	46.0	1.0	1.0	100.0	105.0		1803.0	
46.0	47.0	1.0	1.0	100.0	55.0		1858.0	
47.0	48.0	1.0	1.0	100.0	145.0		2003.0	
48.0	49.0	1.0	1.0	100.0	230.0		2233.0	
49.0	50.0	1.0	1.0	100.0	290.0		2523.0	
50.0	51.0	1.0	1.0	100.0	100.0		2623.0	
51.0	54.0	3.0	3.0	100.0	34.0		2725.0	
54.0	57.0	3.0	3.0	100.0	36.0		2833.0	
57.0	60.0	3.0	3.0	100.0	36.0		2941.0	

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR8 P	SUR	60.0	0.00	0.00	0.00	200 0	-60 0	150781	160781	140MM	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

GEOLOGICAL LOG				MINE CODE	MS CODE	PAGE 1
MINE/PROSPECT: Maranboy				NAME: Maranboy 9 DDH		core/sludge/cutting/chip/
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:
BEARING M/T/G: 206° Mag		INCLINE: -60°		LENGTH: 60 m		STARTED: 17/7/81 FINISHED: 18/7/81
HOLE/CORE SIZE: 5½" Percussion				INTERVALS ASSAYED: All		
INTERVAL		RECOV.Y	DOWN HOLE SURVEY-Method:		date:	by:
from	to	length	m/kg	DESCRIPTION		
0.0	6.0	6.0	6.0	Precollar. Weathered surface material.		
6.0	9.0	3.0	3.0	Pale green and reddish oxidized siltstone with minor arkose.		
9.0	12.0	3.0	3.0	Reddish brown weathered arkose 90%, pale green weathered argillite 10%.		
12.0	15.0	3.0	3.0	Maroon and pale green siltstone 90%, quartzitic arkose 10%.		
15.0	18.0	3.0	3.0	Brown and reddish brown arkosic sandstone 90%, siltstone 10%.		
18.0	21.0	3.0	3.0	Grey siltstone with hematite and mica on fracture surfaces.		
21.0	24.0	3.0	3.0	Grey to maroon coloured siltstone with minor milky vein quartz.		
24.0	27.0	3.0	3.0	Maroon hematite, mica altered siltstone 40%, maroon coloured arkose 60%, minor tourmaline quartz altered arkose.		
27.0	30.0	3.0	3.0	Quartzitic arkose 80%, pale purple to green siltstone 20%.		
30.0	33.0	3.0	3.0	Grey coloured siltstone 60%, brown quartzitic arkose 40%.		
33.0	36.0	3.0	3.0	Reddish brown quartzitic arkose 80%, siltstone 20%.		

LOGGED BY: R.W. Dennis

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 9 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
36.0	39.0	3.0	3.0	Brown hematite, mica altered arkose 40% greenish silicified arkose 40%, siltstone 20%.			
39.0	40.0	1.0	1.0	Brown hematitic, mica altered arkose 70% greenish silicified arkose (quartzite?) 10% and greyish siltstone 10% with minor vein quartz.			
40.0	41.0	1.0	1.0	Brown hematitic, mica latered arkose 70%, greenish silicified arkose 20%, greyish siltstone 10%.			
41.0	42.0	1.0	1.0	Brown arkose 50%, green arkose 25%, grey siltstone 25%.			
42.0	43.0	1.0	1.0	Brown arkose 40%, green arkose 35%, grey siltstone 20%, vein quartz and very minor black tourmaline 5%.			
43.0	44.0	1.0	1.0	Brown arkose 50%, green arkose 25%, and grey siltstone 25%, with minor milky vein quartz.			
44.0	45.0	1.0	1.0	Brown arkose 70%, green arkose 20%, grey siltstone and milky quartz 10%.			
45.0	46.0	1.0	1.0	Brown arkose 70%, green arkose 10%, grey siltstone 20%, and minor milky quartz.			
46.0	47.0	1.0	1.0	Brown arkose 70%, green arkose 5%, grey siltstone 5%, green siltstone 5%, and milky quartz 15%.			
47.0	48.0	1.0	1.0	Brown arkose 80%, minor green arkose, green siltstone, and grey siltstone 10%. Larger chips indicate a possible fault breccia with angular brown arkose fragments cemented by a milky quartz matrix. Quartz 10%.			
48.0	49.0	1.0	1.0	Brown arkose 80%, green argillite (soft) 5%, minor green arkose, grey siltstone and quartz 15%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

[illegible]

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR9 P	SUR	60.0	0.00	0.00	0.00	206 0	-60 0	170781	180781	140MM	

D I S T A N C E			A S S A Y R E S U L T S				ORE-BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM		SN		
0.0	3.0	3.0	3.0	100.0	120.0		360.0		
3.0	6.0	3.0	3.0	100.0	70.0		570.0		
6.0	9.0	3.0	3.0	100.0	40.0		690.0		
9.0	12.0	3.0	3.0	100.0	220.0		1350.0		
12.0	15.0	3.0	3.0	100.0	70.0		1560.0		
15.0	18.0	3.0	3.0	100.0	55.0		1725.0		
18.0	21.0	3.0	3.0	100.0	75.0		1950.0		
21.0	24.0	3.0	3.0	100.0	95.0		2235.0		
24.0	27.0	3.0	3.0	100.0	540.0		3855.0		
27.0	30.0	3.0	3.0	100.0	60.0		4035.0		
30.0	33.0	3.0	3.0	100.0	50.0		4185.0		
33.0	36.0	3.0	3.0	100.0	115.0		4530.0		
36.0	39.0	3.0	3.0	100.0	140.0		4950.0		
39.0	40.0	1.0	1.0	100.0	90.0		5040.0		
40.0	41.0	1.0	1.0	100.0	80.0		5120.0		
41.0	42.0	1.0	1.0	100.0	115.0		5235.0		
42.0	43.0	1.0	1.0	100.0	85.0		5320.0		
43.0	44.0	1.0	1.0	100.0	50.0		5370.0		
44.0	45.0	1.0	1.0	100.0	65.0		5435.0		
45.0	46.0	1.0	1.0	100.0	370.0		5805.0		
46.0	47.0	1.0	1.0	100.0	70.0		5875.0		
47.0	48.0	1.0	1.0	100.0	115.0		5990.0		
48.0	49.0	1.0	1.0	100.0	115.0		6105.0		
49.0	50.0	1.0	1.0	100.0	65.0		6170.0		
50.0	51.0	1.0	1.0	100.0	690.0		6860.0		
51.0	52.0	1.0	1.0	100.0	100.0		7160.0		
52.0	53.0	1.0	1.0	100.0	250.0		7410.0		
53.0	54.0	1.0	1.0	100.0	150.0		7560.0		
54.0	57.0	3.0	3.0	100.0	TO COME				
57.0	60.0	3.0	3.0	100.0	TO COME				

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR9	P	SUR	60.0	0.00	0.00	206 0	-60 0	170781	180781	14CMM	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 1
MINE/PROSPECT: Maranboy			NAME: Maranboy 10 PDH		core/sludge/cutting/chip/		
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G:		INCLINE: -90°		LENGTH: 213.0 m		STARTED: 18/7/81 FINISHED: 19/7/81	
HOLE/CORE SIZE: 5½"				INTERVALS ASSAYED: All			
INTERVAL			RECOV.Y	DOWN HOLE SURVEY-Method:		date:	by:
from	to	length	m/kg	DESCRIPTION			
0.0	6.0	6.0	6.0	Precollar. Clay, purple weathered argillite.			
6.0	9.0	3.0	3.0	Weathered arkose sandstone 60%, argillite 40%.			
9.0	12.0	3.0	3.0	Arkose sandstone 90%, purple and white weathered argillite 10%. Minor vein quartz.			
12.0	15.0	3.0	3.0	Arkose sandstone 70%, purple argillite 30%. Some green chertified arenite.			
15.0	18.0	3.0	3.0	Arkose sandstone 90%, purple argillite 10%.			
18.0	21.0	3.0	3.0	Maroon and minor greenish silicified arkose 90%, maroon argillite 10%. Minor milky vein quartz.			
21.0	24.0	3.0	3.0	Maroon and greenish silicified arkose. Very minor black tourmalinized, silicified arkose.			
24.0	27.0	3.0	3.0	Maroon argillite 90%, arkose 10%.			
27.0	30.0	3.0	3.0	As above.			
30.0	33.0	3.0	3.0	Maroon coloured arkose sandstone 95%, maroon argillite 5%.			
33.0	36.0	3.0	3.0	Maroon arkose 50%, maroon argillite 50%, minor green silicified arkose and argillite.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 10 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
36.0	39.0	3.0	3.0	Maroon arkose 85%, maroon argillite 5%, green chloritically altered arkose and very thin quartz tourmaline veins 10%.			
39.0	42.0	3.0	3.0	Maroon arkose 30%, orange altered argillite and arkose 65%, milky quartz veins 5%.			
42.0	45.0	3.0	3.0	Brown and orange chertified argillite and arkose 90%, vein quartz 10%			
45.0	48.0	3.0	3.0	Maroon argillite and arkose 40%; brown and orange chertified argillite and arkose 60%. Minor milky quartz.			
48.0	51.0	3.0	3.0	Maroon arkose 60%, purplish and greenish purple argillite 40%.			
51.0	54.0	3.0	3.0	Maroon argillite with minor green cherty patches.			
54.0	57.0	3.0	3.0	Green cherty argillite 90%, maroon argillite 10%.			
57.0	60.0	3.0	3.0	Green cherty argillite 70%, maroon argillite 20%, black tourmaline lode 10%.			
60.0	63.0	3.0	3.0	Maroon arkose 50%, argillite 40%, green cherty argillite and arenite 10%.			
63.0	66.0	3.0	3.0	As above.			
66.0	69.0	3.0	3.0	Maroon arkose with minor green chertification extending outward from fractures 95%, milky vein quartz 5%.			
69.9	72.0	3.0	3.0	Maroon coloured arkose sandstone 90%, silicified arkose 10%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 3
MINE/PROSPECT: Maranboy				NAME: Maranboy 10 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
72.0	75.0	3.0	3.0	Maroon arkose and very minor black tourmalinized, silicified arkose.			
75.0	78.0	3.0	3.0	Maroon arkose 80%, greenish yellow, slightly chloritized arkose 20%.			
78.0	81.0	3.0	3.0	Arkose sandstone 60%, argillite with visible mica on fracture surfaces 40%.			
81.0	84.0	3.0	3.0	Strongly hematite, mica altered arkose and argillite. Mica is clearly visible with the hand lens.			
84.0	87.0	3.0	3.0	Green chertified arkose crossed by quartz veins, edged by orange, hematite coloured, chert.			
87.0	90.0	3.0	3.0	Brown hematite, mica altered arkose 60%, green silicified arkose 40%.			
90.0	93.0	3.0	3.0	Brown hematitic, mica altered arkose with minor hematitically altered argillite 80%, green cherty argillite and arkose 20%, very minor milky quartz.			
93.0	96.0	3.0	3.0	Brown hematite, mica altered arkose 90%, green cherty arkose 10%, minor black tourmalinized and silicified arkose.			
96.0	99.0	3.0	3.0	Hematite, mica altered arkose 60%, black tourmaline quartz lode material 35%, milky vein quartz 5%.			
99.0	102.0	3.0	3.0	Hematite, mica altered arkose 60%, green chertified arkose 20%, milky quartz 10%.			
102.0	105.0	3.0	3.0	Brown silicified arkose 50%, milky quartz 50%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 4
MINE/PROSPECT: Maranboy				NAME: Maranboy 10 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
105.0	108.0	3.0	3.0	Tourmalinized and silicified arkose lode rock 80%, brown altered argillite 20%, minor vein quartz.			
108.0	111.0	3.0	3.0	Black tourmalinized lode rock which has been brecciated and infilled with mica, hematite and quartz matrix material 80%, hematite, mica altered arkose 20%.			
111.0	114.0	3.0	3.0	Brown hematite, mica, ^{altered} arkose 90%, black tourmaline, silica lode rock.			
114.0	117.0	3.0	3.0	Brown silicified arkose 90%, black lode rock 10%.			
117.0	120.0	3.0	3.0	Hematite, mica, silica altered arkose 80%, green chlorite, silica altered arkose 20%.			
120.0	123.0	3.0	3.0	Hematite, mica altered arkose with minor clots of chlorite.			
123.0	126.0	3.0	3.0	Green silicified arkose, 70%, brown mica, hematite altered arkose and argillite 30%.			
126.0	129.0	3.0	3.0	Green silicified arkose 70%, hematitically and micaceously altered arkose 30%.			
129.0	132.0	3.0	3.0	Brown hematite, mica altered arkose 70%, green silicified arkose 30%.			
132.0	135.0	3.0	3.0	Green cherty silicified arkose crossed by hematitic, mica veins.			
135.0	138.0	3.0	3.0	Olive green chertified argillite and arkose 70%, lode rock 20%, hematite, mica altered rock 10%.			
138.0	141.0	3.0	3.0	Tourmaline, silica altered arkose, lode rock 90%, milky vein quartz 10%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 5
MINE/PROSPECT: Maranboy				NAME: Maranboy 10 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
141.0	144.0	3.0	3.0	As above.			
144.0	147.0	3.0	3.0	As above.			
147.0	150.0	3.0	3.0	Lode rock 40%, green chloritically altered material 30%, red hematitic, micaceous material 30%. Some visible cassiterite on edges between tourmaline lode rock and chloritically altered rock.			
150.0	153.0	3.0	3.0	Lode rock 40%, chloritically altered rock 40%, hematite, mica altered rock 20%. Some specular hematite, mica altered rock 50%, black tourmaline lode rock 50%, minor milky quartz.			
153.0	156.0	3.0	3.0	Brown hematite, mica altered rock 50%, black tourmaline lode rock 50%, minor milky quartz.			
156.0	159.0	3.0	3.0	Brown hematite, mica altered arkose 40%, tourmaline lode 30%, green chloritized, silicified arkose 30%.			
159.0	162.0	3.0	3.0	Green, chloritically altered and brown hematite mica altered argillite and arkose, minor orange jasper and milky quartz veins.			
162.0	165.0	3.0	3.0	Brown hematite, mica altered arkose 80%, chloritically altered argillite and arkose 20%.			
165.0	168.0	3.0	3.0	Green chloritized and silicified arkose with minor hematite, mica areas and a few quartz, orange jasper veinlets.			
168.0	171.0	3.0	3.0	As above.			
171.0	174.0	3.0	3.0	As above.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 6
MINE/PROSPECT: Maranboy				NAME: Maranboy 10 DDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
174.0	177.0	3.0	3.0	Brown hematite, mica altered arkose and argillite 70%, chloritized and silicified argillite and arkose 30%, very minor black tourmaline lode rock.			
177.0	180.0	3.0	3.0	Hematite, mica greisenized arkose 95%, tourmalinized silicified arkose 5%, minor milky quartz.			
180.0	183.0	3.0	3.0	Hematite, mica altered argillite and arkose 60%, black lode rock 40%.			
183.0	186.0	3.0	3.0	As above.			
186.0	189.0	3.0	3.0	Hematite, mica altered argillite 40%, green chloritized and silicified argillite and arkose 60%.			
189.0	192.0	3.0	3.0	Lode rock 90%, brown hematite, mica altered country rock 10%.			
192.0	195.0	3.0	3.0	Lode rock 50%, hematite, mica altered arkose 50%.			
195.0	198.0	3.0	3.0	Lode rock 70%, hematite, mica altered country rock 30%.			
198.0	201.0	3.0	3.0	Hematite, mica altered argillite and arkose, minor tourmaline, quartz lode rock.			
201.0	204.0	3.0	3.0	Hematite, mica altered arkose with lesser amounts of argillite. Minor chlorite alteration.			
204.0	207.0	3.0	3.0	Black tourmalinized lode rock 70%, hematite mica altered arkose and argillite 30%.			
207.0	210.0	3.0	3.0	Mildly altered arkose with some chlorite and minor vein quartz.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

[illegible]

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING	INCLINE	STARTED DATE	FINISHED DATE	HOLE SIZE	
						DDD MM	DD MM				*** = NOT ASSAYED
MAR10 P	SUR	213.0	0.00	0.00	0.00	0 0	-90 0	180781	190781	140MM	

D I S T A N C E			A S S A Y R E S U L T S				ORE-BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM		SN		
0.0	3.0	3.0	3.0	100.0	75.0		225.0		
3.0	6.0	3.0	3.0	100.0	38.0		339.0		
6.0	9.0	3.0	3.0	100.0	22.0		405.0		
9.0	12.0	3.0	3.0	100.0	18.0		459.0		
12.0	15.0	3.0	3.0	100.0	46.0		597.0		
15.0	18.0	3.0	3.0	100.0	46.0		735.0		
18.0	21.0	3.0	3.0	100.0	75.0		960.0		
21.0	24.0	3.0	3.0	100.0	120.0		1320.0		
24.0	27.0	3.0	3.0	100.0	70.0		1530.0		
27.0	30.0	3.0	3.0	100.0	75.0		1755.0		
30.0	33.0	3.0	3.0	100.0	70.0		1965.0		
33.0	36.0	3.0	3.0	100.0	46.0		2103.0		
36.0	39.0	3.0	3.0	100.0	36.0		2211.0		
39.0	42.0	3.0	3.0	100.0	36.0		2319.0		
42.0	45.0	3.0	3.0	100.0	20.0		2379.0		
45.0	48.0	3.0	3.0	100.0	26.0		2457.0		
48.0	51.0	3.0	3.0	100.0	105.0		2772.0		
51.0	54.0	3.0	3.0	100.0	140.0		3192.0		
54.0	57.0	3.0	3.0	100.0	44.0		3324.0		
57.0	60.0	3.0	3.0	100.0	65.0		3519.0		
60.0	63.0	3.0	3.0	100.0	26.0		3597.0		
63.0	66.0	3.0	3.0	100.0	44.0		3729.0		
66.0	69.0	3.0	3.0	100.0	18.0		3783.0		
69.0	72.0	3.0	3.0	100.0	30.0		3873.0		
72.0	75.0	3.0	3.0	100.0	36.0		3981.0		
75.0	78.0	3.0	3.0	100.0	16.0		4029.0		
78.0	81.0	3.0	3.0	100.0	34.0		4131.0		
81.0	84.0	3.0	3.0	100.0	48.0		4275.0		
84.0	87.0	3.0	3.0	100.0	85.0		4530.0		
87.0	90.0	3.0	3.0	100.0	46.0		4668.0		
90.0	93.0	3.0	3.0	100.0	48.0		4812.0		
93.0	96.0	3.0	3.0	100.0	125.0		5187.0		
96.0	99.0	3.0	3.0	100.0	1150.0		8637.0		
99.0	102.0	3.0	3.0	100.0	170.0		9147.0		
102.0	105.0	3.0	3.0	100.0	75.0		9372.0		
105.0	108.0	3.0	3.0	100.0	240.0		10092.0		
108.0	111.0	3.0	3.0	100.0	250.0		10842.0		

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR10 P	SUR	213.0	0.00	0.00	0.00	0 0	-90 0	180781	190781	140PM	

D I S T A N C E						A S S A Y R E S U L T S		ORE-	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM			BODY	SN	
111.0	114.0	3.0	3.0	100.0	170.0				11352.0	
114.0	117.0	3.0	3.0	100.0	210.0				11982.0	
117.0	120.0	3.0	3.0	100.0	43.0				12126.0	
120.0	123.0	3.0	3.0	100.0	65.0				12321.0	
123.0	126.0	3.0	3.0	100.0	65.0				12516.0	
126.0	129.0	3.0	3.0	100.0	110.0				12846.0	
129.0	132.0	3.0	3.0	100.0	40.0				12966.0	
132.0	135.0	3.0	3.0	100.0	120.0				13326.0	
135.0	138.0	3.0	3.0	100.0	210.0				13956.0	
138.0	141.0	3.0	3.0	100.0	690.0				16026.0	
141.0	144.0	3.0	3.0	100.0	400.0				17226.0	
144.0	147.0	3.0	3.0	100.0	6100.0				35526.0	
147.0	150.0	3.0	3.0	100.0	1400.0				39726.0	
150.0	153.0	3.0	3.0	100.0	2200.0				46326.0	
153.0	156.0	3.0	3.0	100.0	1400.0				50526.0	
156.0	159.0	3.0	3.0	100.0	550.0				52176.0	
159.0	162.0	3.0	3.0	100.0	450.0				53526.0	
162.0	165.0	3.0	3.0	100.0	300.0				54426.0	
165.0	168.0	3.0	3.0	100.0	130.0				54816.0	
168.0	171.0	3.0	3.0	100.0	185.0				55371.0	
171.0	174.0	3.0	3.0	100.0	230.0				56061.0	
174.0	177.0	3.0	3.0	100.0	230.0				56751.0	
177.0	180.0	3.0	3.0	100.0	780.0				59091.0	
180.0	183.0	3.0	3.0	100.0	1500.0				63591.0	
183.0	186.0	3.0	3.0	100.0	175.0				64116.0	
186.0	189.0	3.0	3.0	100.0	140.0				64536.0	
189.0	192.0	3.0	3.0	100.0	2050.0				70686.0	
192.0	195.0	3.0	3.0	100.0	4050.0				82836.0	
195.0	198.0	3.0	3.0	100.0	1050.0				85986.0	
198.0	201.0	3.0	3.0	100.0	250.0				86676.0	
201.0	204.0	3.0	3.0	100.0	125.0				87051.0	
204.0	207.0	3.0	3.0	100.0	1050.0				90201.0	
207.0	210.0	3.0	3.0	100.0	310.0				91131.0	
210.0	213.0	3.0	3.0	100.0	660.0				93111.0	

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR10 P	SUR	213.0	0.00	0.00	0.00	0 0	-90 0	180781	190781	140MM	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 1
MINE / PROSPECT: Maranboy			NAME: Maranboy 11		PDH.		core/sludge/cutting/chip/
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G:		INCLINE: - 90°		LENGTH: 193.4 m		STARTED: 20/7/81	FINISHED: 24/7/81
HOLE/CORE SIZE: 5½" 0.0 - 183.0M : NO core 183.0 - 193.4 m				INTERVALS ASSAYED: 0.0 - 183.0 m : 183.9 - 186.2 m			
INTERVAL		RECOV.Y	DOWN HOLE SURVEY-Method: Eastman		date: 24/7/81	by: Geopeko	LOGGED BY: K. Allison
from	to	length	m/kg	DESCRIPTION			
0.0	3.0	3.0		Precollar. Reddish brown weathered siltstone, minor pale green silicified material, and quartz vein chips.			
3.0	6.0	3.0		Precollar. Reddish weathered siltstone. Slightly more greenish silicified material; clay, and weathered surface material.			
6.0	9.0	3.0		Maroon coloured siltstone 90%; pale grey/green siltstone 10%; minor pale green silicified material, weathered material, and clay.			
9.0	12.0	3.0		As above, with minor vein quartz.			
12.0	15.0	3.0		Maroon siltstone 95%; grey siltstone and milky vein quartz 5%.			
15.0	18.0	3.0		Maroon siltstone, with minor vein quartz and maroon arkose.			
18.0	21.0	3.0		As above.			
21.0	24.0	3.0		Maroon siltstone 70%; black tourmaline quartz lode rock 30%; minor milky vein quartz.			
24.0	27.0	3.0		Maroon siltstone 95%; black tourmaline quartz 5%; minor quartz sandstone.			
27.0	30.0	3.0		Maroon siltstone, with minor arkose and vein quartz.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 11 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
30.0	33.0	3.0		Maroon siltstone, with minor vein quartz.			
33.0	36.0	3.0		Maroon siltstone.			
36.0	39.0	3.0		Maroon siltstone 95%; minor drab green argillite 5%.			
39.0	42.0	3.0		Maroon siltstone 95%; minor green argillite, maroon coloured arkose, and vein quartz 5%.			
42.0	45.0	3.0		Maroon siltstone 30%; dark green arkose 35%; maroon arkose 30%; minor milky vein quartz.			
45.0	48.0	3.0		Maroon siltstone 40%; maroon arkose 30%; dark green arkose 30%; minor vein quartz.			
48.0	51.0	3.0		Maroon siltstone 60%; maroon arkose 20%; medium to dark grey/green cherty argillite 20%.			
51.0	54.0	3.0		Maroon arkose 30%; dark green arkose 50%; maroon siltstone 20%; minor vein quartz.			
54.0	57.0	3.0		Maroon arkose 60%; green arkose 40%.			
57.0	60.0	3.0		Maroon siltstone 40%; maroon arkose 30%; green arkose 30%, minor vein quartz.			
60.0	63.0	3.0		Maroon siltstone 80%; arkose (maroon and green) 15%; vein quartz 5%.			
63.0	66.0	3.0		As above.			
66.0	69.0	3.0		Maroon siltstone 80%; maroon and green arkoses 20%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 3
MINE/PROSPECT: Maranboy				NAME: Maranboy 11 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
69.0	72.0	3.0		Maroon siltstone 80%; maroon and green arkoses 15%; minor drab green argillite 5%.			
72.0	75.0	3.0		Maroon siltstone 90%; arkose and minor drab olive green argillite 10%.			
75.0	78.0	3.0		Maroon siltstone, some chips have pale green mottled patches and minor quartz veins.			
78.0	81.0	3.0		Maroon siltstone with minor drab green siltstone.			
81.0	84.0	3.0		Maroon siltstone			
84.0	87.0	3.0		Maroon siltstone, some chips have drab green patches 95% vein quartz and minor maroon arkose 5%.			
87.0	90.0	3.0		As above.			
90.0	93.0	3.0		Dark green/brown arkose 90%; reddish coloured siltstone 10%.			
93.0	96.0	3.0		Dark green/brown arkose; minor red siltstone.			
96.0	99.0	3.0		Brown, hematitic, mica altered arkose 90%; minor pale green quartzite, and milky vein quartz 10%.			
99.0	102.0	3.0		Brown, hematitic, mica altered arkose.			
102.0	105.0	3.0		As above.			
105.0	108.0	3.0		Brown, hematitic mica altered arkose 90%; pale green quartzite (a silicified arkose?) and vein quartz 10%.			
108.0	111.0	3.0		As above.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE

MS CODE

PAGE 4

MINE/PROSPECT:

Maranboy

NAME:

Maranboy 11 PDH

LEVEL:

from	to	length	m/kg	DESCRIPTION
111.0	114.0	3.0		Brown, hematitic, mica altered arkose 95%; green quartzite, black tourmaline, red siltstone, and milky quartz 5%.
114.0	117.0	3.0		Brown, hematitic, mica altered arkose 95%; green quartzite 5%. Some of the arkose chips are partly tourmalinized, with a gradation from hematitic to tourmaline arkose.
117.0	120.0	3.0		Brown, hematitic, mica altered arkose 90%; black tourmaline lode rock 5%; milky vein quartz 5%; minor green quartzite.
120.0	123.0	3.0		Brown, hematitic, mica altered arkose 95%. Large chips have veinlets of greenish quartz cross-cutting them; minor milky quartz, and green quartzite 5%.
123.0	126.0	3.0		As above.
126.0	129.0	3.0		Brown, hematitic, mica altered, arkose 65%; milky white quartz 30%; minor green quartzite 5%.
129.0	132.0	3.0		Brown, hematitic, mica altered arkose 60%; green, fine grained quartzite 25%; milky white quartz 15%; very minor black tourmaline associated with the quartz. Some chips.
132.0	135.0	3.0		Brown, hematitic, mica altered arkose 70%; green quartzite 15%, milky quartz 15%.
135.0	138.0	3.0		Brown, hematitic, mica altered arkose 20%; green quartzite 55%; black tourmaline quartz lode rock 20%; milky vein quartz 5%; minor red quartz jasper.
138.0	141.0	3.0		Black tourmaline quartz lode rock 60%; green quartzite 25%; red/brown, hematitic, mica altered arkose 10%; milky vein quartz 5%.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 5
MINE/PROSPECT: Maranboy				NAME: Maranboy 11 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
141.0	144.0	3.0		Black Tourmaline quartz lode rock 35%; green quartzite 20%; brown, hematitic, mica altered arkose 15%; semi-transparent quartz crystals $\leq$ 2 - 3 mm in length 25%. Some of the quartz crystals have a coating of specular hematite, which is also observed in the brown hematitic arkose, and as separate chips 5%.			
144.0	147.0	3.0		Black tourmaline quartz lode rock 70%; brown hematitic arkose 5%; large vugh quartz crystals, milky white vein quartz 25%; minor specular hematite and green quartzite.			
147.0	150.0	3.0		Black tourmaline quartz lode rock 85%; milky quartz specular hematite, brown hematitic arkose, and green quartzite 15%.			
150.0	153.0	3.0		Black tourmaline quartz lode rock 95%; minor quartz, specular hematite and red jasper 5%.			
153.0	156.0	3.0		Black tourmaline quartz lode rock, with minor quartz and red/brown hematitic material. Note that most of the interval is very fine chips, implying a higher tourmaline and lower quartz content. Lode rock is probably cassiterite-bearing.			
156.0	159.0	3.0		Black tourmaline quartz lode rock 55%; brown hematitic, mica altered arkose 40%; minor vein quartz, green quartzite, and specular hematite as chips and as coatings on quartz crystals 5%.			
159.0	162.0	3.0		As above.			
162.0	165.0	3.0		As above.			
165.0	168.0	3.0		Black tourmaline quartz lode rock 70%; red/brown hematitic, mica altered arkose 20%; milky vein quartz and semi transparent quartz crystals 10%; minor specular hematite as granules			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 6
MINE/PROSPECT: Maranboy				NAME: Maranboy 11 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
				and coatings, green quartzite, and pale greenish clay-like material.			
168.0	171.0	3.0		Black tourmaline quartz lode rock 70%; brown, hematitic, mica altered arkose 15%; quartz 15%; minor green arkose, specular hematite, and pale green clay.			
171.0	174.0	3.0		Black tourmaline quartz lode rock 40%; brown, hematitic, mica altered arkose 45%; minor quartz, specular hematite, green arkose, pale greenish clay, and green siltstone 5%.			
174.0	177.0	3.0		Black tourmaline quartz lode rock 40%; brown, hematitic, mica altered arkose 50%; quartz, green argillite/siltstone and specular hematite as granules and as coatings on quartz crystals 10%.			
				End of 5½ inch percussion drilling; Start of NO diamond coring.			
183.0	183.9	0.9	0.0	No core recovery.			
183.9	184.1	0.1	0.1	Black tourmaline lode vein cutting the core at a steep angle. CBA 05°.			
184.1	184.3	0.3	0.3	Brown, hematitic, chlorite?, mica?, and tourmaline altered, indurated arkose with irregular spots of greenish arkose. Occasional quartz veins approximately 1 mm wide.			
184.3	185.0	0.7	0.7	Quartz tourmaline lode rock. Interval shows an increase in quartz and tourmaline, becoming almost pure tourmaline at 184.9 - 185.0 m.			
				The quartz and black tourmaline are altering a deep brown hematite, chlorite?, mica?, altered indurated arkose.			
				Numerous quartz and red/brown hematite filled veins give the core a brecciated appearance, particularly the interval 184.5 - 184.6 m.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 7
MINE/PROSPECT: Maranboy				NAME: Maranboy 11 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
				The interval 184.9 - 185.0 m almost certainly contains tin as the core is quite dense.			
185.0	185.6	0.6	0.6	Indurated red/brown arkose - hematite, chlorite, and mica altered. Chlorite alteration appears as pale greenish patches.			
185.6	185.7	0.1	0.1	Fracture zone partially filled with quartz, leaving a vug in the upper part. Fracture is 50° to core axis (C.A.).			
185.7	186.4	0.7	0.7	Graded bed, with a fine red brown hematitic siltstone with irregular pale green chloritic? patches, grading into a coarser arkose over the last 0.2 m. Numerous quartz and hematite filled veins cut the core at various angles. Base of bed CBA 20°.			
186.9	187.2	0.3	0.3	Graded bed. Red hematitic siltstone grades into a grey brown arkose with greenish, chloritic? spots scattered throughout. Quartz veins in the interval have hematitic rims. Less veining in this bed than in the previous one.			
187.2	187.5	0.3	0.3	Graded bed. Predominantly a red/grey hematitic siltstone with pale green chloritic? patches, grading into a grey/brown arkose at about 187.4 m. The base of the bed has a unusual feature where quartz cemented fractures intersecting the arkose/siltstone contact are preserved in the brittle coarse arkose, but are not continued into the fine siltstone. This is probably due to plastic flow in the fine grained rock which effectively seals off the fracture.			
				Fractures are ~ 60° to CA.			
				Base of graded bed CBA 40°.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 8
MINE/PROSPECT: Maranboy				NAME: Maranboy 11 PDH			LEVEL:
from	to	length	m/kg	DESCRIPTION			
187.5	187.7	0.2	0.2	Graded bed, again showing the above feature of sealed off quartz fractures at the base of the bed. The bed also becomes less hematitic (greyer in colour) from top to bottom.			
				Fractures 60° to CA.			
				Base of graded bed CBA 40°.			
197.7	188.0	0.3	0.3	Graded bed. A red/brown hematitic siltstone grades to a grey/brown arkose. Spots of green chloritic alteration are scattered throughout the interval. Only minor quartz and hematite veining is present.			
188.0	189.4	1.4	1.4	Grey/brown hematite, mica altered arkose with scattered green chloritic spots, numerous quartz, hematite, tourmaline, and mica altered veins and veinlets.			
				Quartz veins are generally 30° to CA. Other veins make various angles to the CA.			
189.4	190.0	0.6	0.6	Banded red/brown hematite, mica altered siltstone and grey/brown, slightly coarser grained siltstone. Spots of green chlorite alteration are also present. Bands vary in thickness from 2 - 50 mm. Micro fractures at right angles to banding displace the bands up to 5 mm.			
				CBA 40°.			
190.0	193.4	3.4	3.4	Patchy red/brown and grey/brown hematite, mica and chlorite altered siltstone.			
				190.4 m tourmaline vein 2 mm wide. 05° to CA.			
				193.0 - 193.4 m interval of predominantly grey/brown slightly coarser grained siltstone.			
				Interval has numerous other steeply angled chloritic, hematitic altered veins and fracture systems.			
				END OF HOLE			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

[illegible]

PROSPECT: MARANBOY

PERCUSSION DIAMOND DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR11 D	SUR	193.4	0.00	0.00	0.00	0 0	-90 0	200781	240781	140MM 183 NQ	

D I S T A N C E			A S S A Y R E S U L T S			ORE-BODY	P R O G R E S S I V E	L T H + G R A D E
FROM (M)	TO (M)	LENGTH (M)	RECOVERY (M)	%	SN PPM		SN	
0.0	3.0	3.0	3.0	100.0	90.0		270.0	
3.0	6.0	3.0	3.0	100.0	46.0		408.0	
6.0	9.0	3.0	3.0	100.0	16.0		456.0	
9.0	12.0	3.0	3.0	100.0	24.0		528.0	
12.0	15.0	3.0	3.0	100.0	14.0		570.0	
15.0	18.0	3.0	3.0	100.0	18.0		624.0	
18.0	21.0	3.0	3.0	100.0	30.0		714.0	
21.0	24.0	3.0	3.0	100.0	44.0		846.0	
24.0	27.0	3.0	3.0	100.0	36.0		954.0	
27.0	30.0	3.0	3.0	100.0	22.0		1020.0	
30.0	33.0	3.0	3.0	100.0	8.0		1044.0	
33.0	36.0	3.0	3.0	100.0	24.0		1116.0	
36.0	39.0	3.0	3.0	100.0	24.0		1188.0	
39.0	42.0	3.0	3.0	100.0	30.0		1278.0	
42.0	45.0	3.0	3.0	100.0	8.0		1302.0	
45.0	48.0	3.0	3.0	100.0	6.0		1320.0	
48.0	51.0	3.0	3.0	100.0	14.0		1362.0	
51.0	54.0	3.0	3.0	100.0	12.0		1398.0	
54.0	57.0	3.0	3.0	100.0	12.0		1434.0	
57.0	60.0	3.0	3.0	100.0	8.0		1458.0	
60.0	63.0	3.0	3.0	100.0	10.0		1488.0	
63.0	66.0	3.0	3.0	100.0	16.0		1536.0	
66.0	69.0	3.0	3.0	100.0	12.0		1572.0	
69.0	72.0	3.0	3.0	100.0	0.0		1572.0	
72.0	75.0	3.0	3.0	100.0	0.0		1572.0	
75.0	78.0	3.0	3.0	100.0	8.0		1596.0	
78.0	81.0	3.0	3.0	100.0	18.0		1650.0	
81.0	84.0	3.0	3.0	100.0	18.0		1704.0	
84.0	87.0	3.0	3.0	100.0	4.0		1716.0	
87.0	90.0	3.0	3.0	100.0	18.0		1770.0	
90.0	93.0	3.0	3.0	100.0	18.0		1824.0	
93.0	96.0	3.0	3.0	100.0	14.0		1866.0	
96.0	99.0	3.0	3.0	100.0	16.0		1914.0	
99.0	102.0	3.0	3.0	100.0	42.0		2040.0	
102.0	105.0	3.0	3.0	100.0	42.0		2166.0	
105.0	108.0	3.0	3.0	100.0	34.0		2268.0	
108.0	111.0	3.0	3.0	100.0	26.0		2346.0	

PROSPECT: MARANBOY

PERCUSSION DIAMOND DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	
MAR11 D	SUR	193.4	C.00	0.00	0.00	0 0	-90 0	200781	240781	140MM 183 NQ	*** = NOT ASSAYED

D I S T A N C E						A S S A Y R E S U L T S		ORE-BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM			SN		
111.0	114.0	3.0	3.0	100.0	34.0			2448.0		
114.0	117.0	3.0	3.0	100.0	46.0			2586.0		
117.0	120.0	3.0	3.0	100.0	20.0			2646.0		
120.0	123.0	3.0	3.0	100.0	30.0			2736.0		
123.0	126.0	3.0	3.0	100.0	28.0			2820.0		
126.0	129.0	3.0	3.0	100.0	12.0			2856.0		
129.0	132.0	3.0	3.0	100.0	25.0			2934.0		
132.0	135.0	3.0	3.0	100.0	26.0			3012.0		
135.0	138.0	3.0	3.0	100.0	55.0			3177.0		
138.0	141.0	3.0	3.0	100.0	120.0			3537.0		
141.0	144.0	3.0	3.0	100.0	125.0			3912.0		
144.0	147.0	3.0	3.0	100.0	150.0			4392.0		
147.0	150.0	3.0	3.0	100.0	210.0			5022.0		
150.0	153.0	3.0	3.0	100.0	3100.0			14322.0		
153.0	156.0	3.0	3.0	100.0	38500.0			129822.0		
156.0	159.0	3.0	3.0	100.0	35500.0			236322.0		
159.0	162.0	3.0	3.0	100.0	60500.0			417822.0		
162.0	165.0	3.0	3.0	100.0	45500.0			554322.0		
165.0	168.0	3.0	3.0	100.0	31500.0			648622.0		
168.0	171.0	3.0	3.0	100.0	34500.0			752322.0		
171.0	174.0	3.0	3.0	100.0	28000.0			836322.0		
174.0	177.0	3.0	3.0	100.0	28500.0			921822.0		
177.0	180.0	3.0	3.0	100.0	35000.0			1026822.0		
180.0	183.0	3.0	3.0	100.0	22500.0			1094322.0		
183.0	183.9	0.9	0.9	100.0	***					
183.9	185.0	1.1	1.1	100.0	TO COME					
185.0	185.7	0.7	0.7	100.0	TO COME					
185.7	186.2	0.5	0.5	100.0	TO COME					
186.2	193.4	7.2	7.2	100.0	***					

PROSPECT: MARANBOY

PERCUSSION DIAMOND DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR11 D	SUR	193.4	0.00	0.00	0.00	0 0	-90 0	200781	240781	140MM 183 NG	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 1
MINE / PROSPECT Maranboy			NAME: Maranboy 12 PDH		core/sludge/cutting/chip/		
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G: 200°		INCLINE: -70°		LENGTH: 60.0 m		STARTED: 24/7/81	FINISHED: 24/7/81
HOLE/CORE SIZE: 5 1/2"				INTERVALS ASSAYED: All			
INTERVAL			RECOV.Y	DOWN HOLE SURVEY-Method:	date:	by:	LOGGED BY: K. Allison
from	to	length	m/kg	DESCRIPTION			
0.0	3.0	3.0		Precollar. Brown, weathered material (arkose?), red/brown siltstone 60%; subangular to rounded quartz grains set in a black tourmalinized matrix - a breccia 35%; minor milky quartz, brown and green arkoses 5%.			
3.0	6.0	3.0		Precollar. Brown hematite altered arkose 80%; soft greenish argillite 15%; minor quartz, weathered material, black tourmaline, and tourmaline/quartz breccia 5%.			
6.0	9.0	3.0		Maroon coloured arkose/siltstone 40%; green/grey siltstone 30%; black tourmaline and quartz breccia 30%; minor green arkose. Tourmaline/quartz breccia possibly represents a near surface offshoot of the main lode.			
9.0	12.0	3.0		Maroon siltstone 50%; medium grey siltstone 40%; green argillite 10%.			
12.0	15.0	3.0		Maroon siltstone 60%; green siltstone/argillite 40%; minor grey siltstone. Larger chips show the rock to be an irregular maroon and green coloured siltstone.			
15.0	18.0	3.0		Maroon siltstone 80%; green siltstone 20%.			
18.0	21.0	3.0		Maroon arkose 80%; green arkose 20%; minor maroon and green siltstones and very minor tourmaline associated with vein quartz.			
21.0	24.0	3.0		Maroon arkose 30%; green arkose 40%; black tourmaline quartz lode rock 30%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 12 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
24.0	27.0	3.0		Maroon, hematitic arkose 35%; pale green arkose 30%; medium grey arkose 20%; black tourmaline quartz lode rock 15%; minor vein quartz.			
27.0	30.0	3.0		Maroon, hematitic arkose 30%; green arkose 50%; grey arkose 10%; amber coloured argillite 10%; minor quartz tourmaline lode material and milky vein quartz.			
30.0	33.0	3.0		Dark grey/green argillite 80%; maroon siltstone/argillite 20%; minor purple/grey argillite and milky quartz.			
33.0	34.0	1.0		Black tourmaline quartz lode rock 95%; minor maroon hematite altered siltstone/argillite, dark green/grey argillite, and vein quartz.			
34.0	35.0	1.0		Maroon, hematitic arkose 25%; green arkose 30%; dark green/grey argillite 20%; black tourmaline quartz lode rock 15%; vein quartz 10%.			
35.0	36.0	1.0		Maroon, hematitic arkose 50%; green arkose 10%; dark green/grey argillite 15%; black tourmaline quartz lode rock 15%; vein quartz 10%.			
36.0	37.0	1.0		Red/grey argillite 55%; maroon and green arkoses 30%; black tourmaline lode rock 15%; minor vein quartz.			
37.0	38.0	1.0		Red/grey argillite 55%; green argillite 40%; minor red jasper and vein quartz 5%.			
38.0	39.0	1.0		Red/grey argillite 60%; green argillite/siltstone 35%; black tourmaline lode rock 5%; minor vein quartz and jasper.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 3
MINE/PROSPECT: Maranboy				NAME: Maranboy 12 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
39.0	40.0	1.0		Red/grey argillite 60%; green argillite 40%; minor black tourmaline, jasper and quartz.			
40.0	41.0	1.0		Red/grey argillite 70%; green argillite 30%; minor jasper and quartz.			
41.0	42.0	1.0		As above.			
42.0	45.0	3.0		Red/grey argillite 70%; green argillite 30%; minor milky vein quartz.			
45.0	48.0	3.0		Dark red/grey argillite; minor dark grey/green argillite.			
48.0	51.0	3.0		As above.			
51.0	54.0	3.0		Dark red/grey argillite 95%; minor dark grey/green argillite and black tourmaline 5%.			
54.0	57.0	3.0		As above.			
57.0	60.0	3.0		Dark red/grey argillite with very minor dark green argillite and black tourmaline.			
				<u>END OF HOLE</u>			
				<u>Summary:-</u>			
				0.0 - 6.0 m Precollar			
				6.0 - 21.0 m Country rock - arkose and siltstone			
				21.0 - 27.0 m Tourmaline quartz lode rock.			
				27.0 - 33.0 m Country rock - arkose and siltstone			
				33.0 - 37.0 m Tourmaline quartz lode rock.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE

MS CODE

PAGE 4

MINE/PROSPECT:

Maranboy

NAME:

Maranboy 12 PDH

LEVEL:

from

to

length

m/kg

DESCRIPTION

37.0 - 60.0 m Country rock - argillite.

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING	INCLINE	STARTED DATE	FINISHED DATE	HOLE SIZE	
						DDD MM	DD MM				*** = NOT ASSAYED
MAR12 P	SUR	60.0	0.00	0.00	0.00	200 0	-70 0	240781	240781	140MM	

D I S T A N C E						A S S A Y R E S U L T S		ORE-BODY	P R O G R E S S I V E	L T H + G R A D E
FROM	TO	LNTH	RECOVERY	SN					SN	
(M)	(M)	(M)	(M) %	PPM						
0.0	3.0	3.0	3.0 100.0	115.0					345.0	
3.0	6.0	3.0	3.0 100.0	115.0					690.0	
6.0	9.0	3.0	3.0 100.0	490.0					2160.0	
9.0	12.0	3.0	3.0 100.0	60.0					2340.0	
12.0	15.0	3.0	3.0 100.0	36.0					2448.0	
15.0	18.0	3.0	3.0 100.0	42.0					2574.0	
18.0	21.0	3.0	3.0 100.0	105.0					2889.0	
21.0	24.0	3.0	3.0 100.0	290.0					3759.0	
24.0	27.0	3.0	3.0 100.0	660.0					5739.0	
27.0	30.0	3.0	3.0 100.0	270.0					6549.0	
30.0	33.0	3.0	3.0 100.0	260.0					7329.0	
33.0	34.0	1.0	1.0 100.0	130.0					7459.0	
34.0	35.0	1.0	1.0 100.0	620.0					8079.0	
35.0	36.0	1.0	1.0 100.0	390.0					8469.0	
36.0	37.0	1.0	1.0 100.0	220.0					8689.0	
37.0	38.0	1.0	1.0 100.0	90.0					8779.0	
38.0	39.0	1.0	1.0 100.0	125.0					8904.0	
39.0	40.0	1.0	1.0 100.0	55.0					8959.0	
40.0	41.0	1.0	1.0 100.0	34.0					8993.0	
41.0	42.0	1.0	1.0 100.0	26.0					9019.0	
42.0	45.0	3.0	3.0 100.0	38.0					9133.0	
45.0	48.0	3.0	3.0 100.0	30.0					9223.0	
48.0	51.0	3.0	3.0 100.0	32.0					9319.0	
51.0	54.0	3.0	3.0 100.0	40.0					9439.0	
54.0	57.0	3.0	3.0 100.0	42.0					9565.0	
57.0	60.0	3.0	3.0 100.0	145.0					10000.0	

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR12 P	SUR	60.0	0.00	0.00	0.00	200 0	-70 0	240781	240781	140MM	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 1
MINE/PROSPECT: Maranboy			NAME: Maranboy 13 PDH		core/sludge/cutting/chip/		
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G: 200°		INCLINE: -70°		LENGTH: 51.0m		STARTED: 25/7/81	FINISHED: 25/7/81
HOLE/CORE SIZE: 5½"				INTERVALS ASSAYED: All			
INTERVAL		RECOV.Y	DOWN HOLE SURVEY-Method:		date:	by:	LOGGED BY: K. Allison
from	to	length	m/kg	DESCRIPTION			
0.0	3.0	3.0		Precollar. Brown weathered surface material.			
3.0	6.0	3.0		Precollar. Maroon arkose 50%; green silicified arkose 40%; brown weathered material and vein quartz 10%.			
6.0	9.0	3.0		Maroon arkose 70%; green arkose 15%; pale green, soft clay 15%.			
9.0	12.0	3.0		Maroon, hematitic arkose 50%; green arkose 50%; very minor vein quartz and pale green quartzite.			
12.0	15.0	3.0		Maroon arkose 45%; green arkose 30%; black tourmaline quartz lode rock 20%; pale creamy green quartzite 5%.			
				Lode rock represents an offshoot to the main lode.			
15.0	18.0	3.0		Maroon arkose 70%; green arkose 10%; black tourmaline quartz lode rock 20%; minor vein quartz.			
18.0	21.0	3.0		Maroon arkose 40%; green siltstone 30%; grey/red siltstone 30%; minor amber coloured quartzite.			
21.0	24.0	3.0		As above, with minor vein quartz.			
24.0	27.0	3.0		Maroon arkose 40%; green arkose 50%; milky vein quartz 10%; minor red/grey argillite.			
27.0	30.0	3.0		Maroon arkose 65%; black tourmaline quartz lode rock 15%; minor vein quartz; green arkose 20%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 13 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
30.0	31.0	1.0		Maroon arkose 80%; black tourmaline quartz lode rock 15%; quartz 5%; minor green arkose.			
31.0	32.0	1.0		Maroon arkose 40%; black tourmaline quartz lode rock 60%; minor green arkose.			
32.0	33.0	1.0		Black tourmaline quartz lode rock 95%. Some larger chips have brecciated tourmaline fragments set in a red hematite and quartz matrix; minor red and green arkoses 5%; very minor vein quartz chips.			
33.0	34.0	1.0		As above.			
34.0	35.0	1.0		Red/brown hematitic arkose 60%; green arkose 35%; black tourmaline quartz lode rock 5%; minor vein quartz.			
35.0	36.0	1.0		As above.			
36.0	37.0	1.0		As above.			
37.0	38.0	1.0		Red/brown hematitic arkose 60%; green arkose 35%; minor red/grey argillite 5%.			
38.0	39.0	1.0		Red/brown hematitic arkose 40%; green arkose 60%; minor red/grey argillite and black tourmaline lode material.			
39.0	42.0	3.0		Dark brown arkose 85%; green arkose 15%; minor tourmaline quartz lode material.			
42.0	45.0	3.0		Red/brown hematitic arkose 50%; green arkose 50%; very minor tourmaline quartz lode material.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE	MS CODE	PAGE 3
MINE/PROSPECT: Maranboy				NAME: Maranboy 13 PDH		LEVEL:
from	to	length	m/kg	DESCRIPTION		
45.0	48.0	3.0		Red/brown hematitic arkose 55%; green arkose 45%.		
48.0	51.0	3.0		Red/brown hematitic arkose 55%; green siltstone 25% green arkose 20%.		
				<u>END OF HOLE</u>		
				<u>Summary:-</u>		
				0.0 - 6.0 m Precollar.		
				6.0 - 12.0 m Country Rock - arkose		
				12.0 - 18.0 m Tourmaline quartz lode rock		
				18.0 - 27.0 m Country rock - arkose and siltstone		
				27.0 - 37.0 m Tourmaline quartz lode rock (main lode)		
				37.0 - 51.0 m Country rock - arkose.		

PROSPECT: MARANGOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL SUR	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR13 P	SUR	51.0	0.00	0.00	0.00	200 0	-70 0	250781	250781	140MM	

D I S T A N C E			A S S A Y R E S U L T S			ORE- BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM		SN	
0.0	3.0	3.0	3.0	100.0	60.0		180.0	
3.0	6.0	3.0	3.0	100.0	22.0		246.0	
6.0	9.0	3.0	3.0	100.0	24.0		318.0	
9.0	12.0	3.0	3.0	100.0	38.0		432.0	
12.0	15.0	3.0	3.0	100.0	90.0		702.0	
15.0	18.0	3.0	3.0	100.0	100.0		1002.0	
18.0	21.0	3.0	3.0	100.0	44.0		1134.0	
21.0	24.0	3.0	3.0	100.0	16.0		1182.0	
24.0	27.0	3.0	3.0	100.0	26.0		1260.0	
27.0	30.0	3.0	3.0	100.0	80.0		1500.0	
30.0	31.0	1.0	1.0	100.0	300.0		1800.0	
31.0	32.0	1.0	1.0	100.0	4700.0		6500.0	
32.0	33.0	1.0	1.0	100.0	41000.0		47500.0	
33.0	34.0	1.0	1.0	100.0	34500.0		82000.0	
34.0	35.0	1.0	1.0	100.0	29500.0		111500.0	
35.0	36.0	1.0	1.0	100.0	5000.0		116500.0	
36.0	37.0	1.0	1.0	100.0	4350.0		120850.0	
37.0	38.0	1.0	1.0	100.0	1400.0		122250.0	
38.0	39.0	1.0	1.0	100.0	2000.0		124250.0	
39.0	42.0	3.0	3.0	100.0	1900.0		129950.0	
42.0	45.0	3.0	3.0	100.0	960.0		132830.0	
45.0	48.0	3.0	3.0	100.0	800.0		135230.0	
48.0	51.0	3.0	3.0	100.0	350.0		136280.0	

PROSPECT: MARANPOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR13 P	SUR	51.0	0.00	0.00	0.00	200 0	-70 0	250781	250781	140MM	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

GEOLOGICAL LOG				MINE CODE	MS CODE	PAGE 1
MINE/PROSPECT: Maranboy			NAME: Maranboy 14 PDH			core/sludge/cutting/chip/
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:
BEARING M/T/G: 210		INCLINE: - 70		LENGTH: 54.0 m	STARTED: 25/7/81	FINISHED: 26/7/81
HOLE/CORE SIZE: 5½"				INTERVALS ASSAYED: All		
INTERVAL		RECOV.Y	DOWN HOLE SURVEY-Method:		date:	by:
from	to	length	m/kg	DESCRIPTION		
0.0	3.0	3.0		Precollar. Brown weathered surface material, green siltstone/argillite, medium grey siltstone, and maroon siltstone.		
3.0	6.0	3.0		Precollar. Brown weathered surface material, maroon siltstone, green siltstone, medium grey siltstone; minor vein quartz, maroon and green arkoses.		
6.0	9.0	3.0		Maroon siltstone 30%; green siltstone 30%; grey siltstone 20%; silicified amber coloured siltstone 15%; milky vein quartz 5%; minor soft pale green clay.		
9.0	12.0	3.0		Dark maroon coloured siltstone; minor green siltstone.		
12.0	15.0	3.0		As above.		
15.0	18.0	3.0		As above.		
18.0	21.0	3.0		Dark maroon, hematitic siltstone 30%; black tourmaline quartz lode rock 70%; minor milky vein quartz.		
21.0	24.0	3.0		Maroon and red/grey arkose 65%; green/grey arkose 15%; black tourmaline quartz lode rock 20%; minor milky vein quartz.		
24.0	27.0	3.0		Black tourmaline quartz lode rock 90%; milky vein quartz associated with the tourmaline 10%; minor red/grey and green/grey arkoses. This probably represents an offshoot to the		

LOGGED BY: K. Allison

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 14 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
				main lode.			
27.0	30.0	3.0		Brown arkose; minor green silicified arkose, quartz and tourmaline.			
30.0	33.0	3.0		Black tourmaline quartz lode rock 30%; red/grey arkose 25%; green/grey silicified arkose 20%; maroon hematitic siltstone 20%; milky vein quartz and minor vug quartz crystals 5%.			
33.0	34.0	1.0		Black tourmaline quartz lode rock 95%; amber coloured siltstone 5%; minor maroon siltstone, green arkose and milky quartz.			
34.0	35.0	1.0		Black tourmaline quartz lode rock 70%; green/grey arkose 30%; minor maroon, hematitic siltstone, and very minor quartz.			
35.0	36.0	1.0		Black tourmaline quartz lode rock 60%; green/grey arkose 15%; maroon arkose and siltstone 5%; milky vein quartz 20%.			
36.0	37.0	1.0		Black tourmaline quartz lode rock 75%; green/grey siltstone 15%; maroon, hematitic siltstone 10%; minor milky vein quartz.			
37.0	38.0	1.0		As above.			
38.0	39.0	1.0		Black tourmaline quartz lode rock 40%; dark green/grey siltstone 55%; red/grey argillite 5%; minor maroon siltstone (some chips with an amber coloured surface - alteration effect?) and milky quartz.			
39.0	40.0	1.0		Red/grey argillite 60%; black tourmaline quartz lode rock 15%; dark green/grey siltstone 10%			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE	MS CODE	PAGE 3
MINE/PROSPECT: Maranboy				NAME: Maranboy 14 PDH		LEVEL:
from	to	length	m/kg	DESCRIPTION		
				light green argillite 10%; minor pale green, soft clay, quartz, amber coloured siltstone 5%		
40.0	41.0	1.0		Maroon arkose 50%; light to medium green/grey arkose 40%, black tourmaline quartz lode rock 10%; minor amber siltstone, and quartz.		
41.0	42.0	1.0		Light green siltstone/arkose 80%; maroon arkose 20%; minor black tourmaline lode material.		
42.0	45.0	3.0		Red/grey (maroon) arkose 60%; light green arkose/siltstone 40%; minor tourmaline and quartz.		
45.0	48.0	3.0		Red/grey arkose 70%; light green arkose 30%; minor hematite stained siltstone. Some large (10 - 20 mm) chips of siltstone have a weathered appearance - perhaps a minor underground cavity open to groundwater has been encountered.		
48.0	51.0	3.0		As above. A fracture system is also possible, with loose unconsolidated material.		
51.0	54.0	3.0		As above.		
				<u>END OF HOLE</u>		
				<u>Summary:-</u>		
				0.0 - 6.0 m Precollar		
				6.0 - 18.0 m Country rock - siltstones		
				18.0 - 27.0 m Tourmaline quartz lode rock - possibly an offshoot to the main lode.		
				27.0 - 30.0 m Country rock - arkose		
				30.0 - 41.0 m Tourmaline quartz lode rock		
				41.0 - 54.0 m Country rock - arkose.		

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR14 P	SUR	54.0	0.00	0.00	0.00	210 0	-70 0	250781	260781	140MM	

D I S T A N C E

A S S A Y R E S U L T S

ORE-
BODY

P R O G R E S S I V E

L T H * G R A D E

FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM	
0.0	3.0	3.0	3.0	100.0	70.0	210.0
3.0	6.0	3.0	3.0	100.0	80.0	450.0
6.0	9.0	3.0	3.0	100.0	195.0	1035.0
9.0	12.0	3.0	3.0	100.0	180.0	1575.0
12.0	15.0	3.0	3.0	100.0	230.0	2265.0
15.0	18.0	3.0	3.0	100.0	210.0	2895.0
18.0	21.0	3.0	3.0	100.0	320.0	3855.0
21.0	24.0	3.0	3.0	100.0	410.0	5085.0
24.0	27.0	3.0	3.0	100.0	140.0	5505.0
27.0	30.0	3.0	3.0	100.0	100.0	5805.0
30.0	33.0	3.0	3.0	100.0	270.0	6615.0
33.0	34.0	1.0	1.0	100.0	560.0	7175.0
34.0	35.0	1.0	1.0	100.0	460.0	7635.0
35.0	36.0	1.0	1.0	100.0	210.0	7845.0
36.0	37.0	1.0	1.0	100.0	230.0	8075.0
37.0	38.0	1.0	1.0	100.0	700.0	8775.0
38.0	39.0	1.0	1.0	100.0	1250.0	10025.0
39.0	40.0	1.0	1.0	100.0	460.0	10485.0
40.0	41.0	1.0	1.0	100.0	280.0	10765.0
41.0	42.0	1.0	1.0	100.0	125.0	10960.0
42.0	45.0	3.0	3.0	100.0	270.0	11770.0
45.0	48.0	3.0	3.0	100.0	70.0	11980.0
48.0	51.0	3.0	3.0	100.0	65.0	12175.0
51.0	54.0	3.0	3.0	100.0	110.0	12505.0

PROSPECT: MARANEBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR14 P	SUR	54.0	0.00	0.00	0.00	210 0	-70 0	250781	260781	140MM	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 1
MINE / PROSPECT: Maranboy				NAME: Maranboy 15 PDH		core/sludge/cutting/chip/	
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G:			INCLINE: -90°		LENGTH: 81.0 m		STARTED: 26/7/81
HOLE/CORE SIZE: 5½"			INTERVALS ASSAYED: All		FINISHED: 28/7/81		
INTERVAL			RECOV.Y	DOWN HOLE SURVEY-Method:		date:	by:
from	to	length	m/kg	DESCRIPTION			
0.0	3.0	3.0		Precollar. Grey siltstone 60%; green silicified siltstone 20%; red/brown siltstone 20%; minor black tourmaline quartz lode rock - contamination from old workings?; minor weathered surface material.			
3.0	6.0	3.0		Precollar. Maroon, hematitic siltstone 40%; green silicified siltstone 25%; grey siltstone 25%; black tourmaline quartz lode rock 10% - minor near surface offshoot?			
6.0	9.0	3.0		Maroon, hematitic siltstone 80%; green silicified siltstone 20%; minor grey siltstone; very minor quartz tourmaline lode rock.			
9.0	12.0	3.0		Maroon, hematitic siltstone 60%; green silicified siltstone 40%; minor tourmaline quartz lode rock.			
12.0	15.0	3.0		Black tourmaline quartz lode rock 80%; maroon hematitic siltstone 15%; minor green siltstone, milky quartz associated with the lode material 5%.			
15.0	18.0	3.0		Black tourmaline quartz lode rock 95%. Some chips clearly show the fractured nature of the lode with angular black tourmaline fragments cemented by milky quartz; minor quartz and maroon, hematitic siltstone 5%.			
18.0	21.0	3.0		Black tourmaline quartz lode rock 90%; milky quartz 10%; minor maroon, hematitic siltstone.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 15 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
21.0	24.0	3.0		Brown/grey arkose 50%; black tourmaline quartz lode rock 45%; minor green/grey arkose and vein. quartz 5%.			
24.0	27.0	3.0		Maroon arkose 40%; green/grey arkose 30%; maroon siltstone 15%; green siltstone 5%; black tourmaline quartz lode rock 10%; minor quartz.			
27.0	30.0	3.0		Maroon, hematitic siltstone 50%; green silicified siltstone 35%, purple/grey siltstone 15%; minor maroon and green arkoses, and quartz.			
30.0	33.0	3.0		Maroon, hematitic siltstone 70%; green arkose 25%; black tourmaline quartz lode rock 5%; minor green and purple/grey siltstone, and quartz.			
33.0	36.0	3.0		Black tourmaline quartz lode rock 50%; maroon, hematitic siltstone 5%; purple/grey siltstone 15%; green arkose 5%; quartz 5%.			
36.0	39.0	3.0		Black tourmaline quartz lode rock 80%; green arkose 15%; maroon, hematitic siltstone 5%.			
39.0	42.0	3.0		Maroon, hematitic siltstone 60%; green silicified siltstone 35%; minor black tourmaline quartz and green arkose 5%.			
42.0	45.0	3.0		Black tourmaline quartz lode rock 45%; maroon, hematitic siltstone 35%; silicified green arkose 20%; minor milky vein quartz.			
45.0	48.0	3.0		Black tourmaline quartz lode rock 95%; minor maroon hematitic siltstone and green arkose/siltstone 5%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 3
MINE/PROSPECT: Maranboy				NAME: Maranboy 15 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
48.0	51.0	3.0		Black tourmaline quartz lode rock 75%; maroon, hematitic siltstone 25%; minor green arkose and quartz.			
51.0	54.0	3.0		Black tourmaline quartz lode rock 45%; maroon hematitic siltstone 20%; green/grey arkose 35%.			
54.0	57.0	3.0		Maroon arkose 65%; green arkose 10%; black tourmaline quartz lode rock 15%; maroon and green siltstone 10%.			
57.0	60.0	3.0		Brown/grey arkose 55%; green silicified arkose 40%; black tourmaline quartz lode rock 5%.			
60.0	63.0	3.0		Brown/grey arkose 65%; green silicified arkose/siltstone 30%; black tourmaline quartz lode material 5%.			
63.0	66.0	3.0		Brown/grey arkose 50%; green silicified arkose/siltstone 40%; minor quartz, black tourmaline lode material, and red hematitic siltstone 10%.			
66.0	69.0	3.0		As above.			
69.0	72.0	3.0		Red/grey argillite 20%; green siltstone 35%; brown/grey arkose 40%; green arkose 5%; minor milky vein quartz.			
72.0	75.0	3.0		Brown/grey arkose 50%; green siltstone 25%; red/grey argillite 20%.			
75.0	78.0	3.0		Brown/grey siltstone 90%; minor grey arkose, green siltstone, green arkose, and milky vein quartz 10%.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

[illegible]

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR15 P	SUR	81.0	0.00	0.00	0.00	0 0	-90 0	260781	280781	140MM	

D I S T A N C E						A S S A Y R E S U L T S		ORE-	P R O G R E S S I V E		L T H * G R A D E
FROM	TO	LENGTH	RECOVERY		SN			BODY	SN		
(M)	(M)	(M)	(%)	%	PPM						
0.0	3.0	3.0	3.0	100.0	55.0					165.0	
3.0	6.0	3.0	3.0	100.0	200.0					765.0	
6.0	9.0	3.0	3.0	100.0	100.0					1065.0	
9.0	12.0	3.0	3.0	100.0	55.0					1230.0	
12.0	15.0	3.0	3.0	100.0	550.0					2850.0	
15.0	18.0	3.0	3.0	100.0	200.0					3420.0	
18.0	21.0	3.0	3.0	100.0	250.0					4230.0	
21.0	24.0	3.0	3.0	100.0	170.0					4740.0	
24.0	27.0	3.0	3.0	100.0	135.0					5145.0	
27.0	30.0	3.0	3.0	100.0	110.0					5475.0	
30.0	33.0	3.0	3.0	100.0	165.0					5970.0	
33.0	36.0	3.0	3.0	100.0	1000.0					8970.0	
36.0	39.0	3.0	3.0	100.0	270.0					9780.0	
39.0	42.0	3.0	3.0	100.0	65.0					9975.0	
42.0	45.0	3.0	3.0	100.0	1100.0					13275.0	
45.0	48.0	3.0	3.0	100.0	13500.0					53775.0	
48.0	51.0	3.0	3.0	100.0	8600.0					79575.0	
51.0	54.0	3.0	3.0	100.0	1150.0					83025.0	
54.0	57.0	3.0	3.0	100.0	240.0					83745.0	
57.0	60.0	3.0	3.0	100.0	165.0					84240.0	
60.0	63.0	3.0	3.0	100.0	165.0					84735.0	
63.0	66.0	3.0	3.0	100.0	200.0					85335.0	
66.0	69.0	3.0	3.0	100.0	145.0					85770.0	
69.0	72.0	3.0	3.0	100.0	70.0					85980.0	
72.0	75.0	3.0	3.0	100.0	75.0					86205.0	
75.0	78.0	3.0	3.0	100.0	32.0					86301.0	
78.0	81.0	3.0	3.0	100.0	34.0					86403.0	

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE	LEVEL	LENGTH	NORTHING	EASTING	REDUCED	BEARING	INCLINE	STARTED	FINISHED	HOLE	
NAME					LEVEL	DDD MM	DD MM	DATE	DATE	SIZE	*** = NOT ASSAYED
MAR15	P	SUR	81.0	0.00	0.00	0 0	-90 0	260781	280781	140MM	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 1
MINE/PROSPECT: Maranboy			NAME: Maranboy 16 PDH		core/sludge/cutting/chip/		
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G: 200°		INCLINE: -70°		LENGTH: 60.0 m		STARTED: 28/7/81 FINISHED: 29/7/81	
HOLE/CORE SIZE: 5½"				INTERVALS ASSAYED: A;;			
INTERVAL		RECOV.Y	DOWN HOLE SURVEY-Method:		date:	by:	LOGGED BY: K. Allison
from	to	length	m/kg	DESCRIPTION			
0.0	3.0	3.0		Precollar. Brown weathered surface material; red/grey siltstone; pale green siltstone; minor tourmaline quartz lode material - alluvium in stream bed?			
3.0	6.0	3.0		Precollar. Brown weathered material; red/grey siltstone; pale green siltstone; minor milky vein quartz.			
6.0	9.0	3.0		Red/grey arkose 95%; minor green arkose and brown weathered material 5%.			
9.0	12.0	3.0		Maroon, hematitic (redder colour than in last interval) arkose 90%; green arkose 5%; black tourmaline quartz lode material 5%; minor milky vein quartz and amber coloured arkose.			
12.0	15.0	3.0		Maroon, hematitic siltstone 70%, with minor black tourmaline alteration apparent in some chips; green siltstone 30%; minor quartz.			
15.0	18.0	3.0		Maroon, hematitic siltstone 95%; green silicified siltstone 5%; very minor quartz.			
18.0	21.0	3.0		Maroon, hematitic siltstone 90%; green arkose 10%; very minor quartz.			
21.0	24.0	3.0		Maroon, hematitic siltstone 95%; green arkose 5%; very minor green siltstone and black tourmaline.			
24.0	27.0	3.0		Maroon, hematitic siltstone; minor green siltstone and quartz.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 16 PDH		LEVEL:	
from	to	length	m/kg	DESCRIPTION			
27.0	30.0	3.0		Maroon, hematitic siltstone 90%; green arkose 10%; minor green siltstone, quartz, and tourmaline.			
30.0	33.0	3.0		Dark maroon siltstone; minor green arkose, quartz, and tourmaline.			
33.0	36.0	3.0		Black tourmaline quartz lode rock 90%; maroon hematitic siltstone, quartz 10%.			
36.0	39.0	3.0		Black tourmaline quartz lode rock 60%; brown/grey argillite 5%; green arkose 5%; grey arkose 25%; minor red jasper, maroon hematitic siltstone, quartz, and green siltstone 5%. Note: grab sampling while the 3 m run was being drilled showed that the lode material occurred in the first metre i.e. from 36.0 - 37.0 m. This means the actual lode intersection was less than 4 m.			
39.0	42.0	3.0		Brown/grey argillite 80%; green argillite/siltstone 20%; minor tourmaline occurs as chips and as veinlets within the argillites.			
42.0	45.0	3.0		Brown/grey argillite 40%; green argillite 30%; maroon hematitic siltstone/argillite 20%; minor arkosic material and black tourmaline 10%.			
48.0	51.0	3.0		Brown/grey argillite 30%; green argillite 40%; maroon hematitic siltstone/argillite 5%; green arkose 20%; black tourmaline quartz lode rock 5%.			
51.0	54.0	3.0		Black tourmaline quartz lode rock 40%; red/brown arkose 55%; green arkose quartz 5%.			
54.0	57.0	3.0		Brown/green arkose 90%; black tourmaline quartz lode rock 10%. This probably represents a minor footwall tourmaline lode vein.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE

MS CODE

PAGE 3

MINE/PROSPECT:

Maranboy

NAME:

Maranboy 16 PDH

LEVEL:

from to length m/kg

DESCRIPTION

57.0 60.0 3.0 Dark tourmalinized green/brown arkose. Tourmaline occurs as dark specks within the arkose and as minor veinlets. It rarely occurs as a tourmaline chip.

END OF HOLE

Summary:-

0.0 - 6.0 m Precollar

6.0 - 33.0 m Country rock - siltstone and arkose

33.0 - 37.0 m Tourmaline quartz lode rock

37.0 - 51.0 m Country rock - argillite

51.0 - 54.0 m Tourmaline quartz lode rock - footwall stringer?

54.0 - 60.0 m Country rock - arkose.

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING	INCLINE	STARTED DATE	FINISHED DATE	HOLE SIZE	
						DDD MM	DD MM				*** = NOT ASSAYED
MAR16 P	SUR	60.0	0.00	0.00	0.00	200 0	-70 0	280781	290781	140MM	

D I S T A N C E						A S S A Y R E S U L T S		ORE-BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM			SN		
0.0	3.0	3.0	3.0	100.0	180.0			540.0		
3.0	6.0	3.0	3.0	100.0	32.0			636.0		
6.0	9.0	3.0	3.0	100.0	32.0			732.0		
9.0	12.0	3.0	3.0	100.0	115.0			1077.0		
12.0	15.0	3.0	3.0	100.0	65.0			1272.0		
15.0	18.0	3.0	3.0	100.0	36.0			1380.0		
18.0	21.0	3.0	3.0	100.0	16.0			1428.0		
21.0	24.0	3.0	3.0	100.0	26.0			1506.0		
24.0	27.0	3.0	3.0	100.0	42.0			1632.0		
27.0	30.0	3.0	3.0	100.0	36.0			1740.0		
30.0	33.0	3.0	3.0	100.0	185.0			2295.0		
33.0	36.0	3.0	3.0	100.0	310.0			3225.0		
36.0	39.0	3.0	3.0	100.0	210.0			4155.0		
39.0	42.0	3.0	3.0	100.0	95.0			4440.0		
42.0	45.0	3.0	3.0	100.0	75.0			4665.0		
45.0	48.0	3.0	3.0	100.0	65.0			4860.0		
48.0	51.0	3.0	3.0	100.0	570.0			6570.0		
51.0	54.0	3.0	3.0	100.0	210.0			7200.0		
54.0	57.0	3.0	3.0	100.0	125.0			7575.0		
57.0	60.0	3.0	3.0	100.0	40.0			7695.0		

PROSPECT: MARANEY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	
MAR16 P	SUR	60.0	0.00	0.00	0.00	200 0	-70 0	280781	290781	140MM	*** = NOT ASSAYED

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 1
MINE/PROSPECT: Maranboy			NAME: Maranboy 17 FDH			core/sludge/cutting/chip/	
LEVEL:		NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G: 220°		INCLINE: -70°		LENGTH: 540 m		STARTED: 29/7/81	FINISHED: 29/7/81
HOLE/CORE SIZE: 5½"				INTERVALS ASSAYED: All			
INTERVAL			RECOV.Y	DOWN HOLE SURVEY-Method:		date:	by:
from	to	length	m/kg	DESCRIPTION			
0.0	3.0	3.0	3.0	Precollar. Brown, weathered surface material; brown/grey siltstone; very minor quartz.			
3.0	6.0	3.0	3.0	Precollar. Brown/grey siltstone; minor green siltstone and weathered material.			
6.0	9.0	3.0	3.0	Brown/grey hematitic siltstone; minor milky vein quartz.			
9.0	12.0	3.0	3.0	Brown/grey hematitic siltstone 95%; pale green siltstone 5%.			
12.0	15.0	3.0	3.0	Brown/grey hematitic siltstone; very minor black tourmaline quartz lode rock, and green siltstone.			
15.0	18.0	3.0	3.0	As above.			
18.0	21.0	3.0	3.0	As above.			
21.0	24.0	3.0	3.0	Maroon coloured siltstone 60%; light green siltstone 40%; minor quartz.			
24.0	27.0	3.0	3.0	Maroon siltstone 80%; black tourmaline quartz lode rock and tourmalized maroon siltstone 15%; minor green arkose and quartz 5%.			
27.0	30.0	3.0		Maroon siltstone 70%; green siltstone 30%; minor tourmalized siltstone.			

LOGGED BY: K. Allison

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG					MINE CODE	MS CODE	PAGE 2
MINE/PROSPECT: Maranboy				NAME: Maranboy 17 PDH			LEVEL:
from	to	length	m/kg	DESCRIPTION			
30.0	33.0	3.0		Brown/green arkose 95%. Some chips are mildly tourmaline altered; minor tourmaline and quartz 5%.			
33.0	36.0	3.0		As above. Some of the arkose chips can be seperated into brown and green varieties, but most have both colourations present.			
36.0	39.0	3.0		Brown/green arkose 60%; black tournaline quartz lode rock 20%; quartz 20%.			
39.0	40.0	1.0		Black tourmaline quartz lode rock 95%; minor red hematitic siltstone, quartz 5%.			
40.0	41.0	1.0		Black tourmaline quartz lode rock 40%; brown/green arkose 45%; red hematitic arkose 10%; quartz 5%.			
41.0	42.0	1.0		Brown/green arkose 75%; black tourmaline quartz lode rock and tourminalized arkose 25%; minor red hematitic siltstone.			
42.0	43.0	1.0		Brown/green arkose - some chips are more brown or green than others, but most are a combination of the two colours; minor tourmaline lode material.			
43.0	44.0	1.0		Brown hematitic siltstone/argillite. Some chips also have a green tinge.			
44.0	45.0	1.0		As above.			
45.0	48.0	3.0		Dark brown/grey hematitic siltstone 75%; dark to medium green arkose 25%; minor black tourmaline lode rock.			

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE	MS CODE	PAGE 3
MINE/PROSPECT:		NAME:		LEVEL:		
from	to	length	m/kg	DESCRIPTION		
48.0	51.0	3.0		Dark maroon, hematitic siltstone 90%; dark green arkose 10%; minor black tourmaline lode rock.		
51.0	54.0	3.0		Dark maroon, hematitic siltstone 90%; dark green arkose 10%; minor quartz.		
				<u>END OF HOLE</u>		
				<u>Summary:-</u>		
				0.0 - 6.0 m Precollar		
				6.0 - 36.0 m Country Rock - siltstone and arkose		
				36.0 - 42.0 m Tourmaline quartz lode rock		
				42.0 - 54.0 m Country Rock - siltstone and arkose.		

PROSPECT: MARANBOY

PERCUSSION DRILLING

DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING	INCLINE	STARTED DATE	FINISHED DATE	HOLE SIZE	
MAR17 P	SUR	54.0	0.00	0.00	0.00	220 0	-70 0	290781	270981	14CMM	*** = NOT ASSAYED

D I S T A N C E					A S S A Y R E S U L T S		ORE- BODY	P R O G R E S S I V E	L T H * G R A D E
FROM (M)	TO (M)	LNTH (M)	RECOVERY (M)	%	SN PPM		SN		
0.0	3.0	3.0	3.0	100.0	30.0		90.0		
3.0	6.0	3.0	3.0	100.0	26.0		168.0		
6.0	9.0	3.0	3.0	100.0	44.0		300.0		
9.0	12.0	3.0	3.0	100.0	50.0		480.0		
12.0	15.0	3.0	3.0	100.0	50.0		630.0		
15.0	18.0	3.0	3.0	100.0	50.0		810.0		
18.0	21.0	3.0	3.0	100.0	70.0		1020.0		
21.0	24.0	3.0	3.0	100.0	110.0		1350.0		
24.0	27.0	3.0	3.0	100.0	110.0		1680.0		
27.0	30.0	3.0	3.0	100.0	145.0		2115.0		
30.0	33.0	3.0	3.0	100.0	44.0		2247.0		
33.0	36.0	3.0	3.0	100.0	75.0		2472.0		
36.0	39.0	3.0	3.0	100.0	95.0		2757.0		
39.0	40.0	1.0	1.0	100.0	70.0		2827.0		
40.0	41.0	1.0	1.0	100.0	80.0		2907.0		
41.0	42.0	1.0	1.0	100.0	140.0		3047.0		
42.0	43.0	1.0	1.0	100.0	280.0		3327.0		
43.0	44.0	1.0	1.0	100.0	170.0		3497.0		
44.0	45.0	1.0	1.0	100.0	120.0		3617.0		
45.0	48.0	3.0	3.0	100.0	100.0		3917.0		
48.0	51.0	3.0	3.0	100.0	110.0		4247.0		
51.0	54.0	3.0	3.0	100.0	95.0		4502.0		

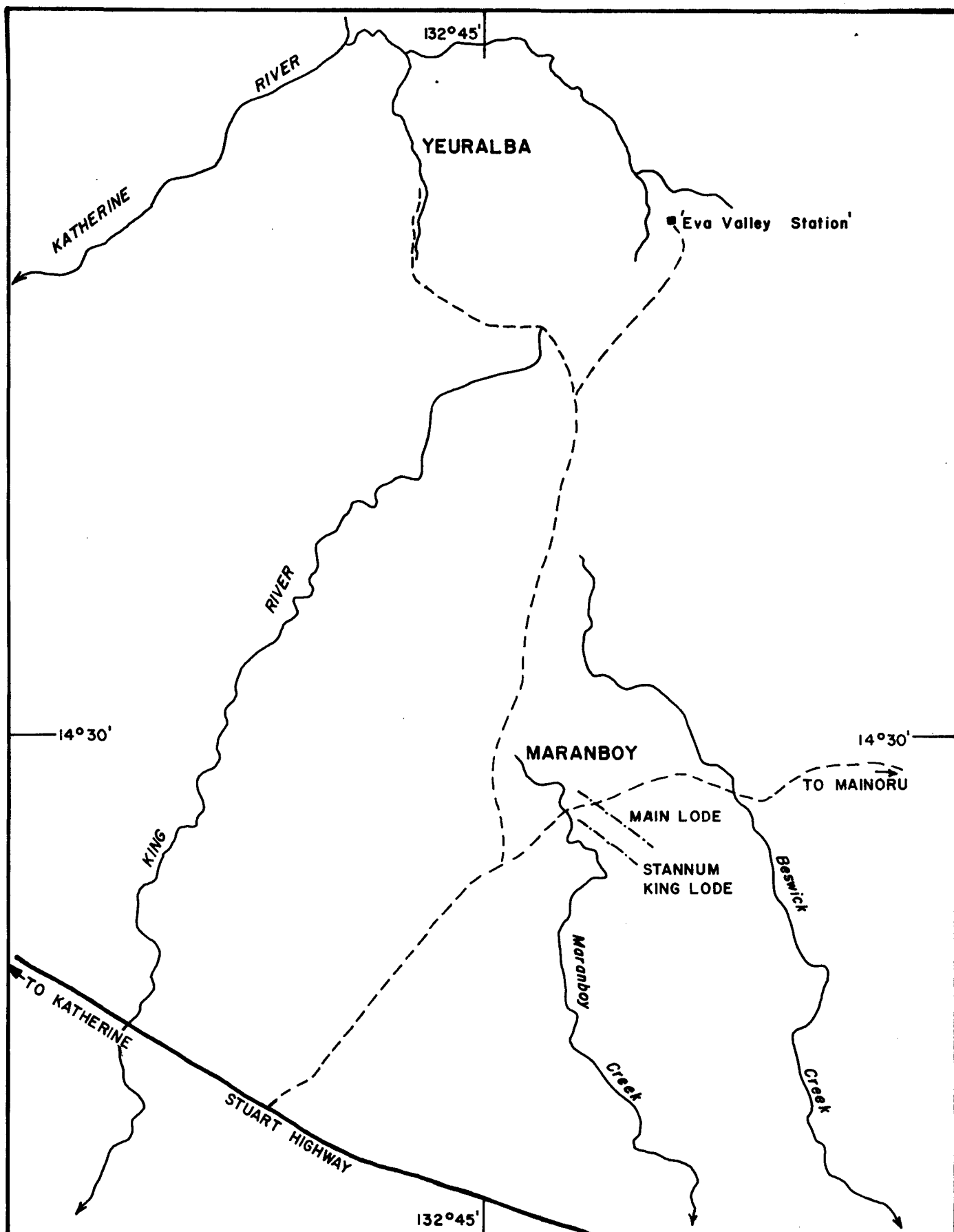
PROSPECT: MARANBOY

PERCUSSION DRILLING

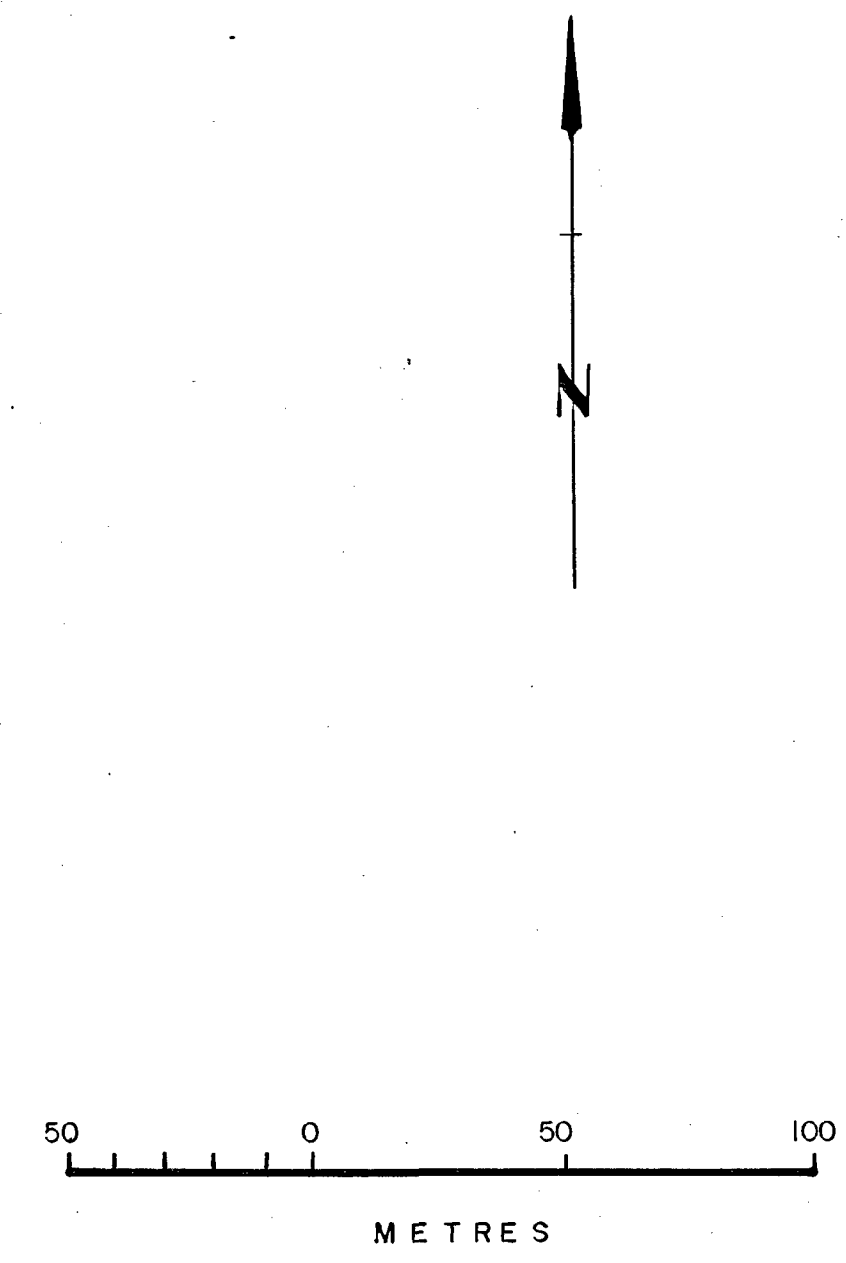
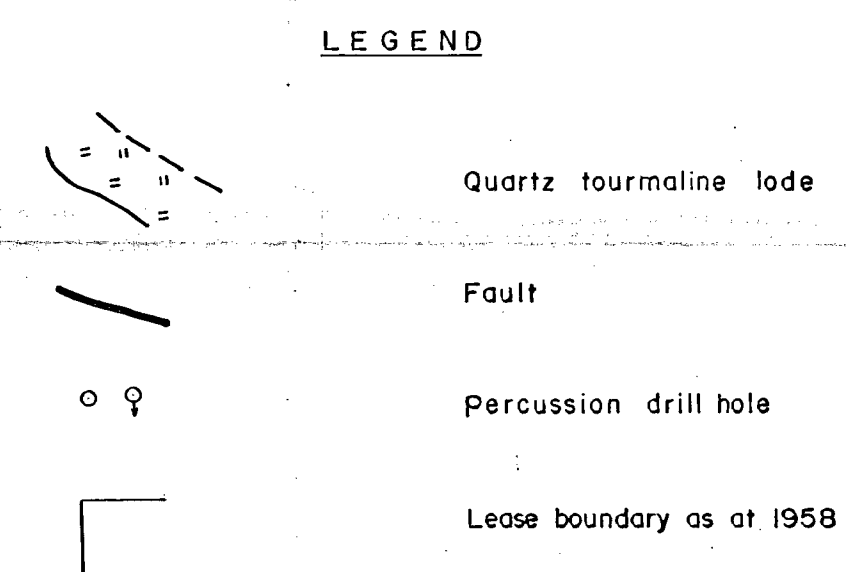
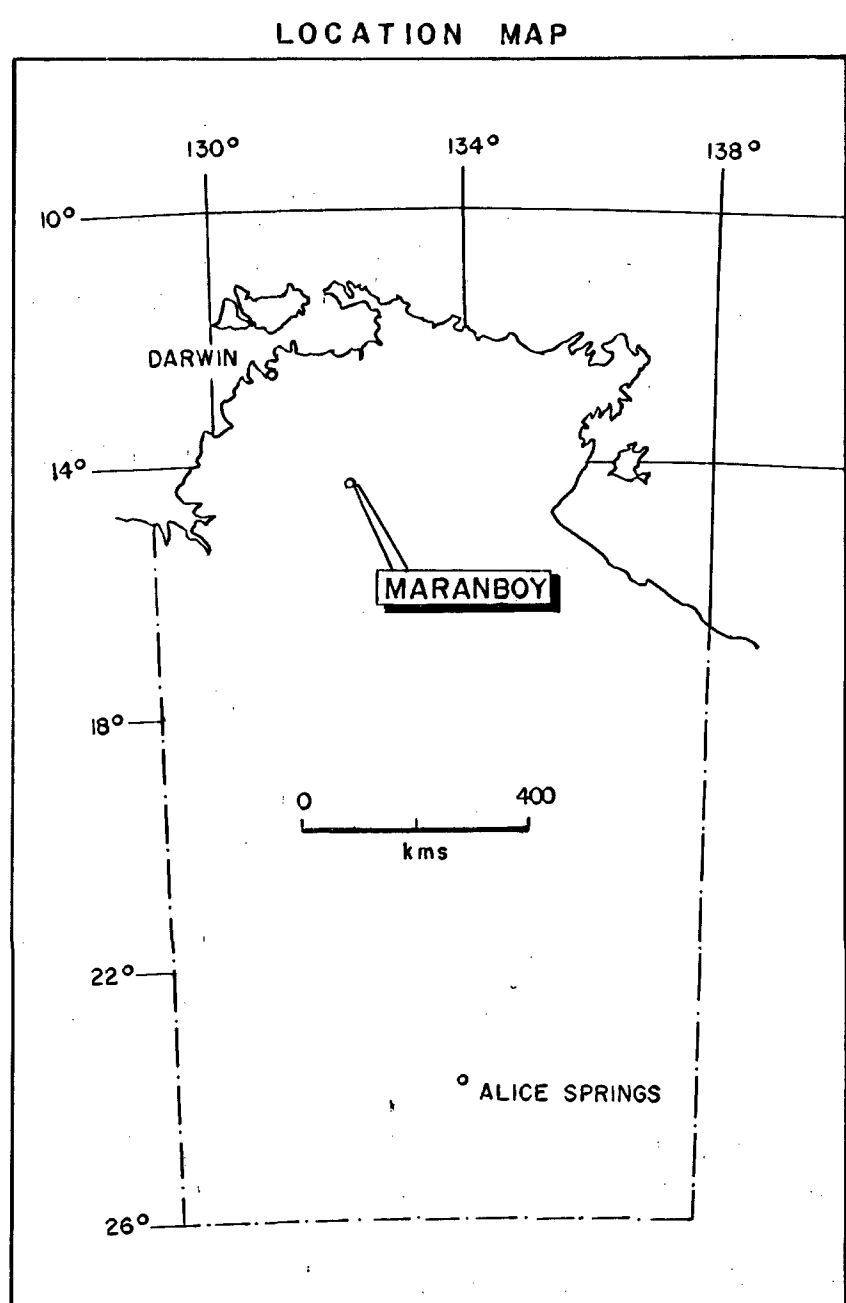
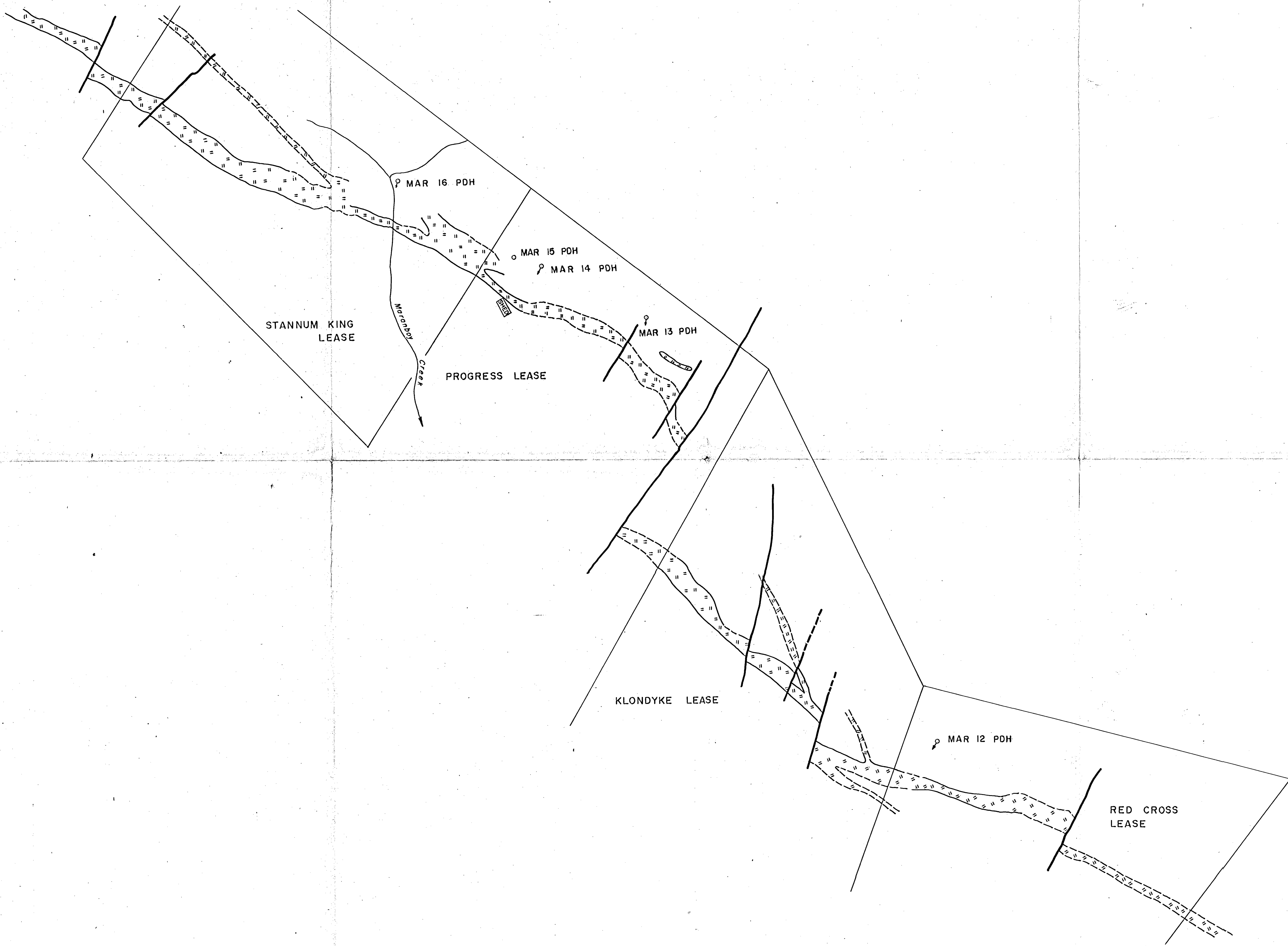
DRILL HOLE NAME	LEVEL	LENGTH	NORTHING	EASTING	REDUCED LEVEL	BEARING DDD MM	INCLINE DD MM	STARTED DATE	FINISHED DATE	HOLE SIZE	*** = NOT ASSAYED
MAR17 P	SUR	54.0	0.00	0.00	0.00	220 0	-70 0	290781	270981	140MM	

DOWN HOLE SURVEY INFORMATION

NOT AVAILABLE

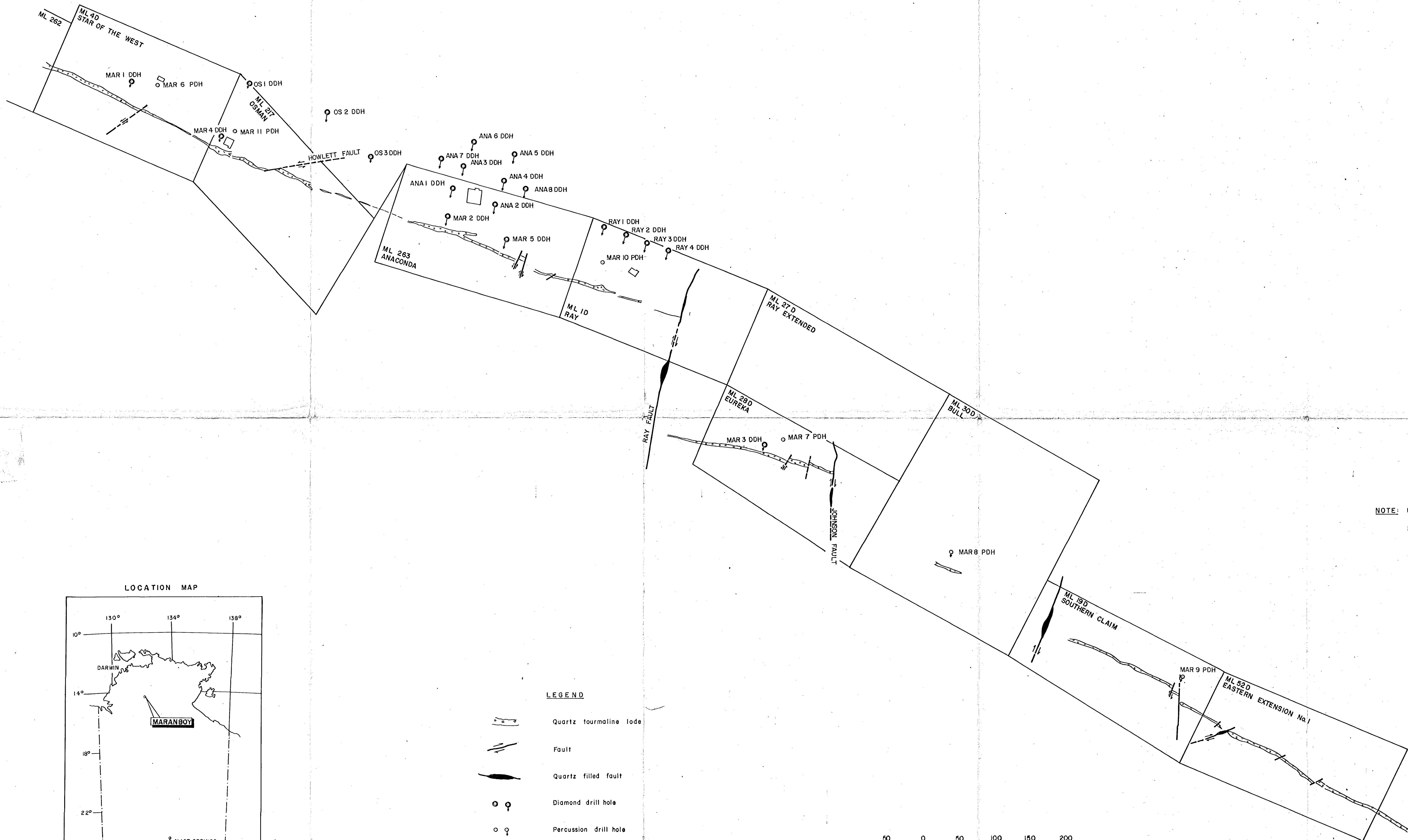


REVISION		SCALE: 1:250 000	CARPENTARIA EXPLORATION COMPANY PTY LTD
		GEOL. J.E.F.	MARANBOY / YEURALBA LOCATION MAP CR1981-0316
		DRAFT J.D.P.	
		CHECKED:	
		DATE: FEB '81	
		MICROFILMED:	
		ROLL N°	
MINING FIELD or DISTRICT: MARANBOY			DRG N°: 1/4064

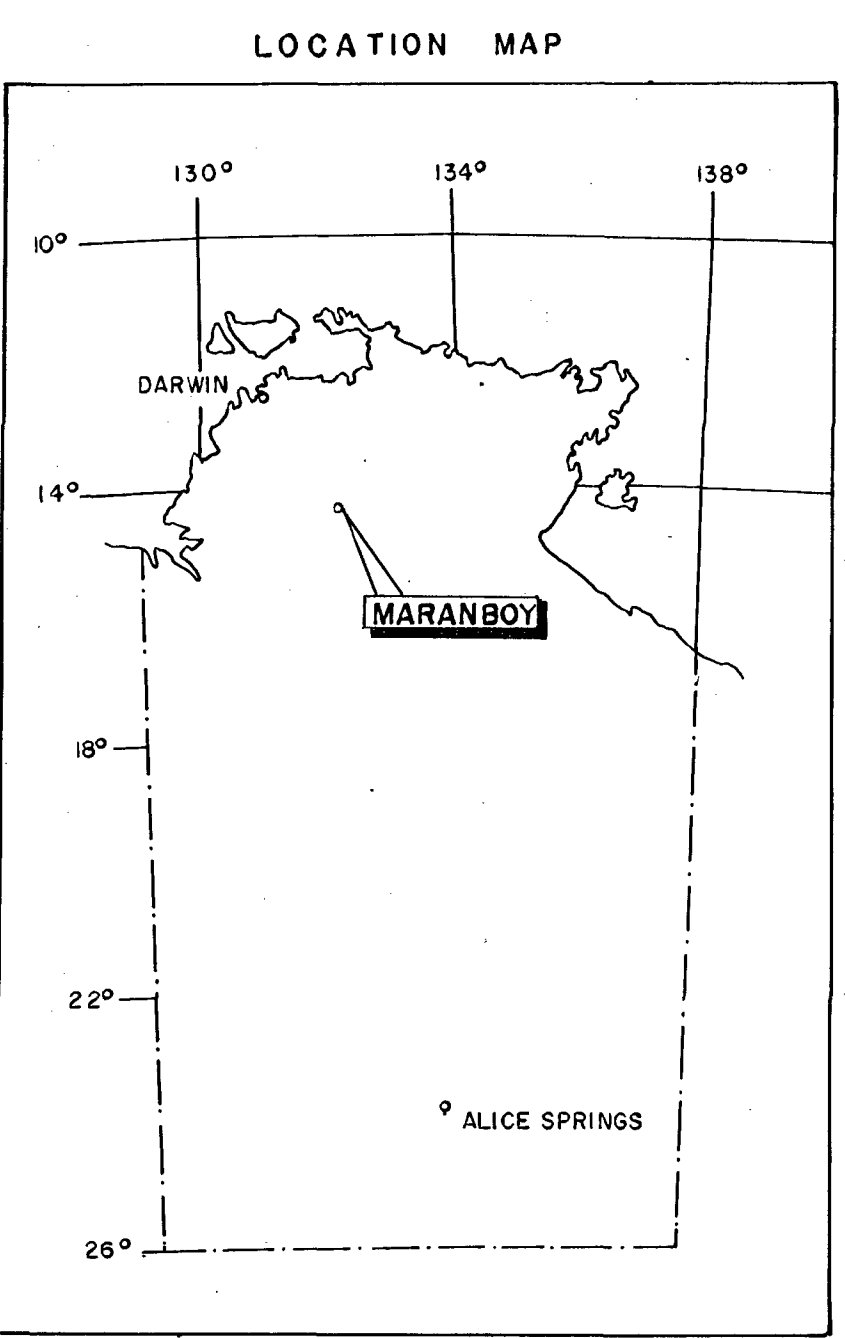


NOTE: REDRAWN FROM WALPOLE

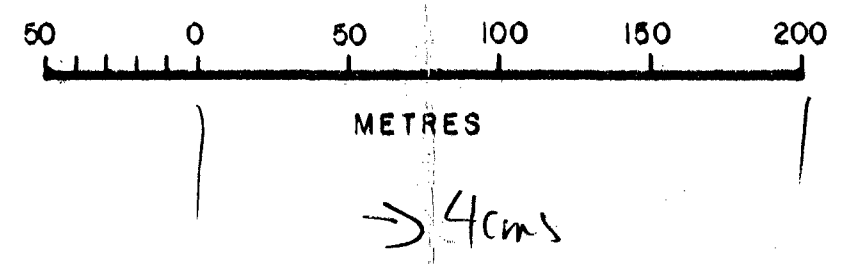
REVISION	SCALE: 1:1500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
	GEOLOGICAL: R.D.	MARANBOY TINFIELD STANNUM KING LODE DRILL HOLE LOCATIONS <i>CR193-016</i>
	DRAFT: S.T.B.	
	CHECKED:	
	DATE: OCT, 1981	
	MICROFILMED:	
	ROLL No.:	
MINING FIELD OR DISTRICT: MARANBOY, NT		ORG No.: 21136



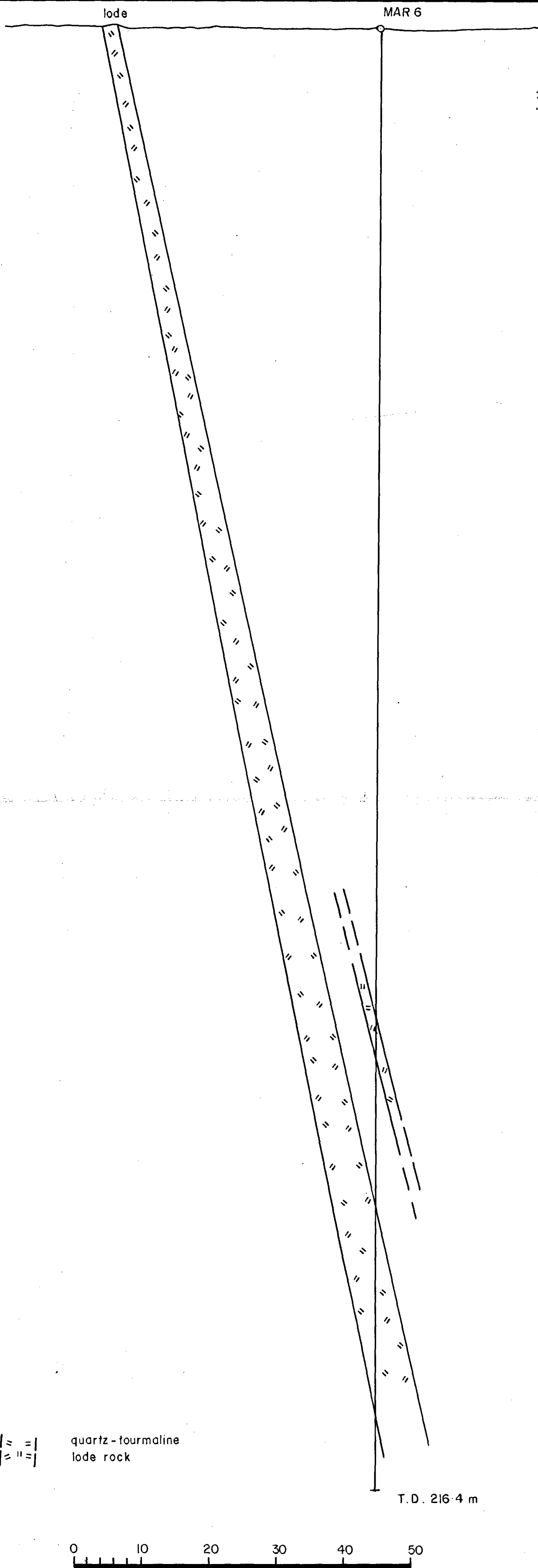
NOTE: Unsurveyed lease boundaries
Redrawn from Walpole, Sleis, Mackay



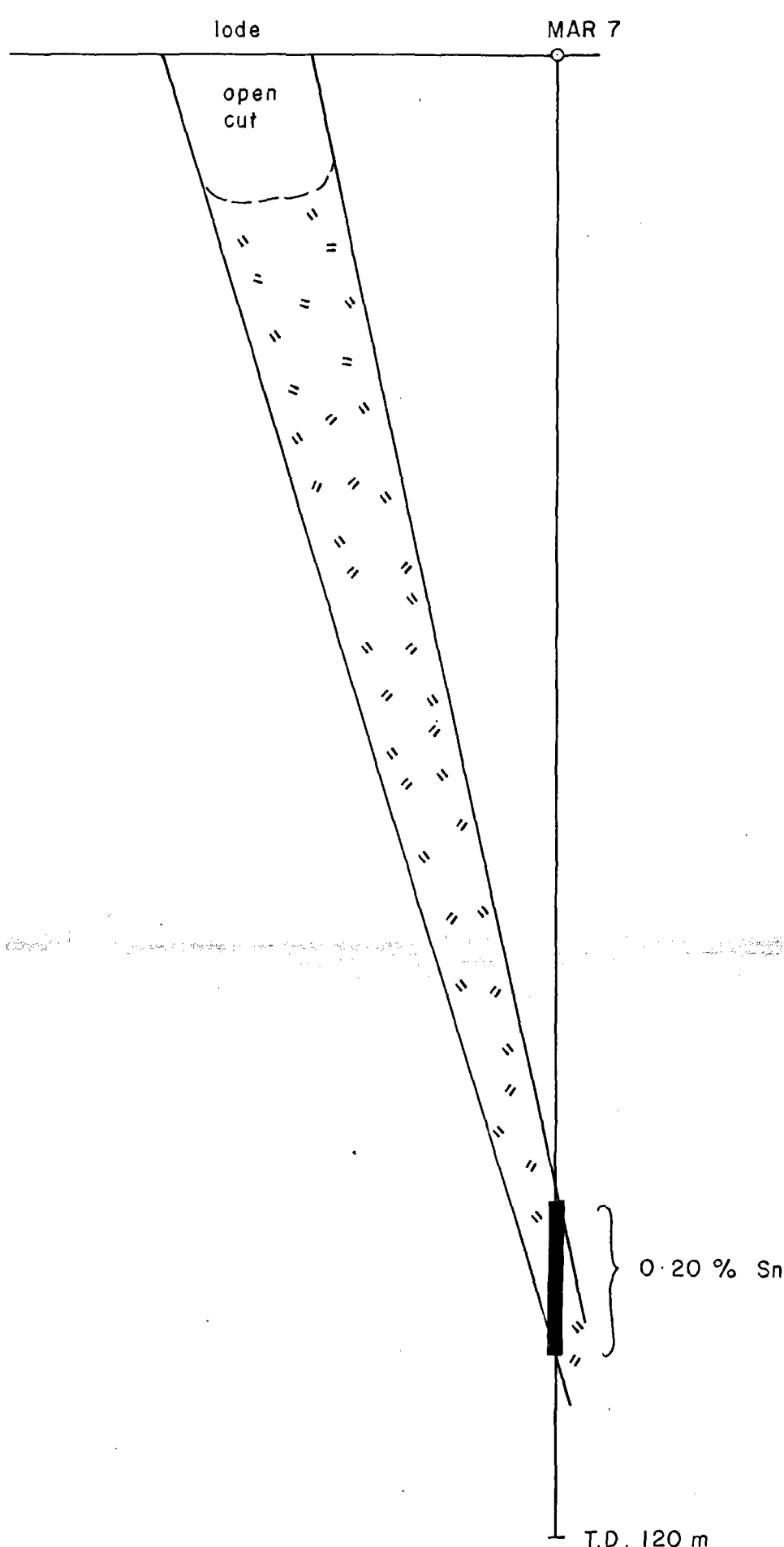
- LEGEND**
- Quartz tourmaline lode
 - Fault
 - Quartz filled fault
 - Diamond drill hole
 - Percussion drill hole
 - Building



REVISION		SCALE: 1:2500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.	
		GEOLOGICAL: R.O.	MARANBOY TINFIELD MAIN LODE DRILL HOLE LOCATIONS CR1781-0316	
		DRAFT: STB		
		CHECKED:		
		DATE: OCT, 1991		
		MICROFILMED:		
		ROLL No.:	MINING FIELD OR DISTRICT: MARANBOY, NT	
			DRG No.: 21137	



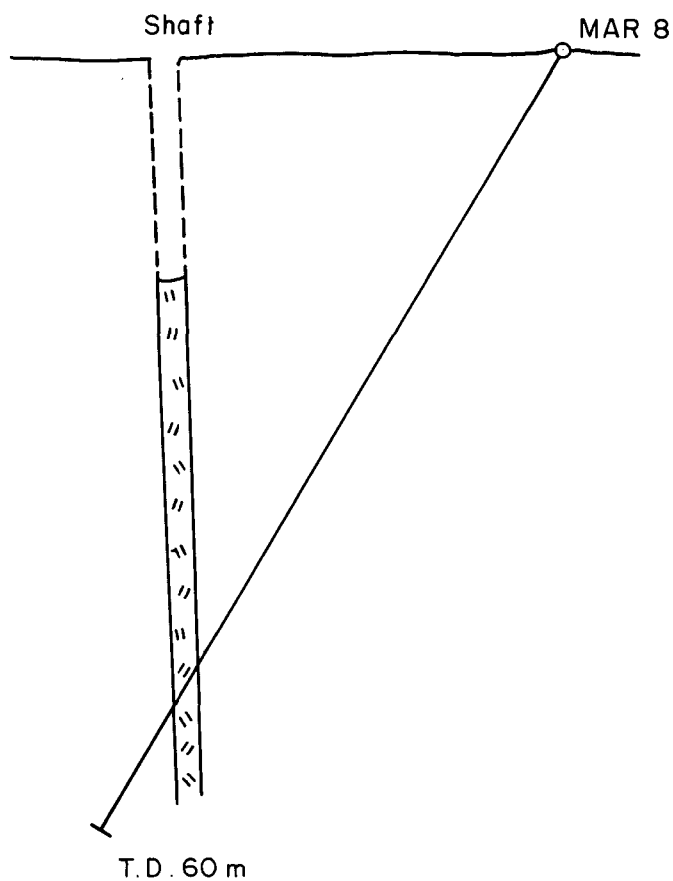
REVISION		SCALE: 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.	
		GEOL R.D., K.A.	MARANBOY TINFIELD STAR OF THE WEST LEASE MAIN LODGE CROSS-SECTION LOOKING NW MARANBOY 6 PDH	
		DRAFT: S.T.B.		
		CHECKED:		
		DATE: OCT, 1981		
		MICROFILMED:		
		ROLL No.:		
		MINING FIELD OR DISTRICT: MARANBOY, NT	CR1981-0316 DRG No.: 21133	



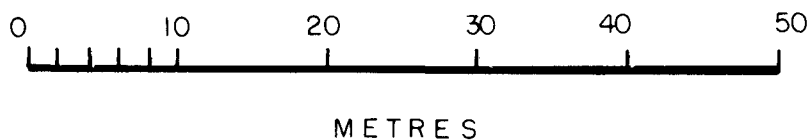
|| = || quartz - tourmaline
 || " || lode rock



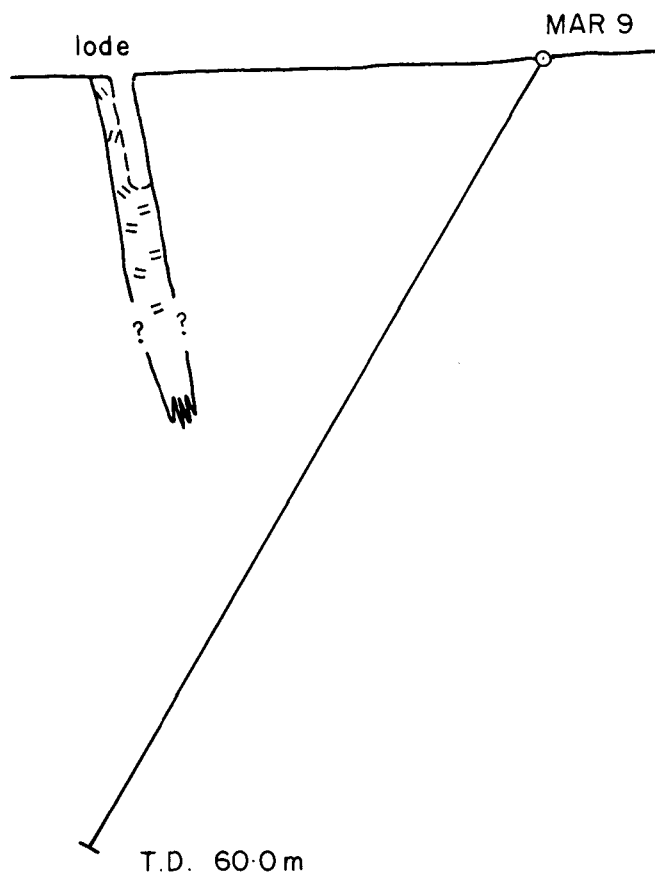
REVISION		SCALE: 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.	
		GEOL R.D.	MARANBOY TINFIELD EUREKA LEASE MAIN LODE CROSS-SECTION LOOKING NW MARANBOY 7 PDH	
		DRAFT: S.T.B.		
		CHECKED:		
		DATE: OCT, 1981		
		MICROFILMED:		
		ROLL No.:		
MINING FIELD OR DISTRICT: MARANBOY, NT			CR1981-0316 DRG No.: 21134	




 quartz-tourmaline
lode rock



REVISION		SCALE 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.	
		GEOL: K.A., R.D.	MARANBOY TINFIELD BULL LEASE MAIN LODE CROSS - SECTION LOOKING NW 'MARANBOY 8 PDH <i>CR1981-0316</i>	
		DRAFT S.T.B.		
		CHECKED		
		DATE: OCT, 1981		
		MICROFILMED		
		ROLL No.		
		MINING FIELD OR DISTRICT MARANBOY, NT		DRG No. 1/3593

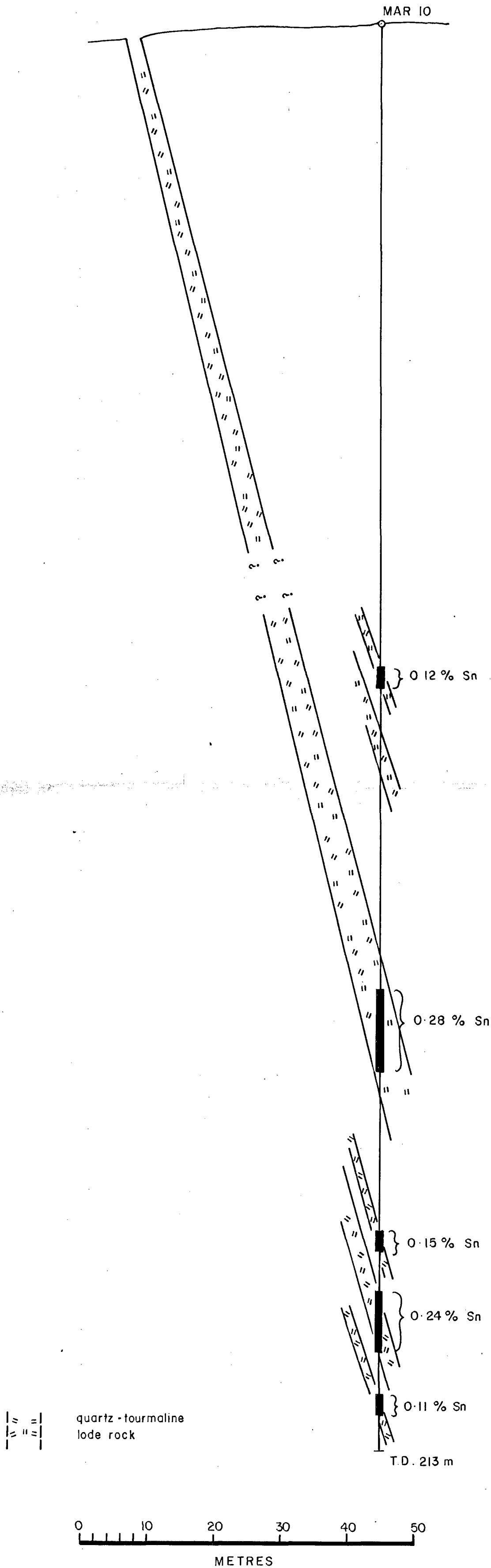


quartz - tourmaline
lode rock

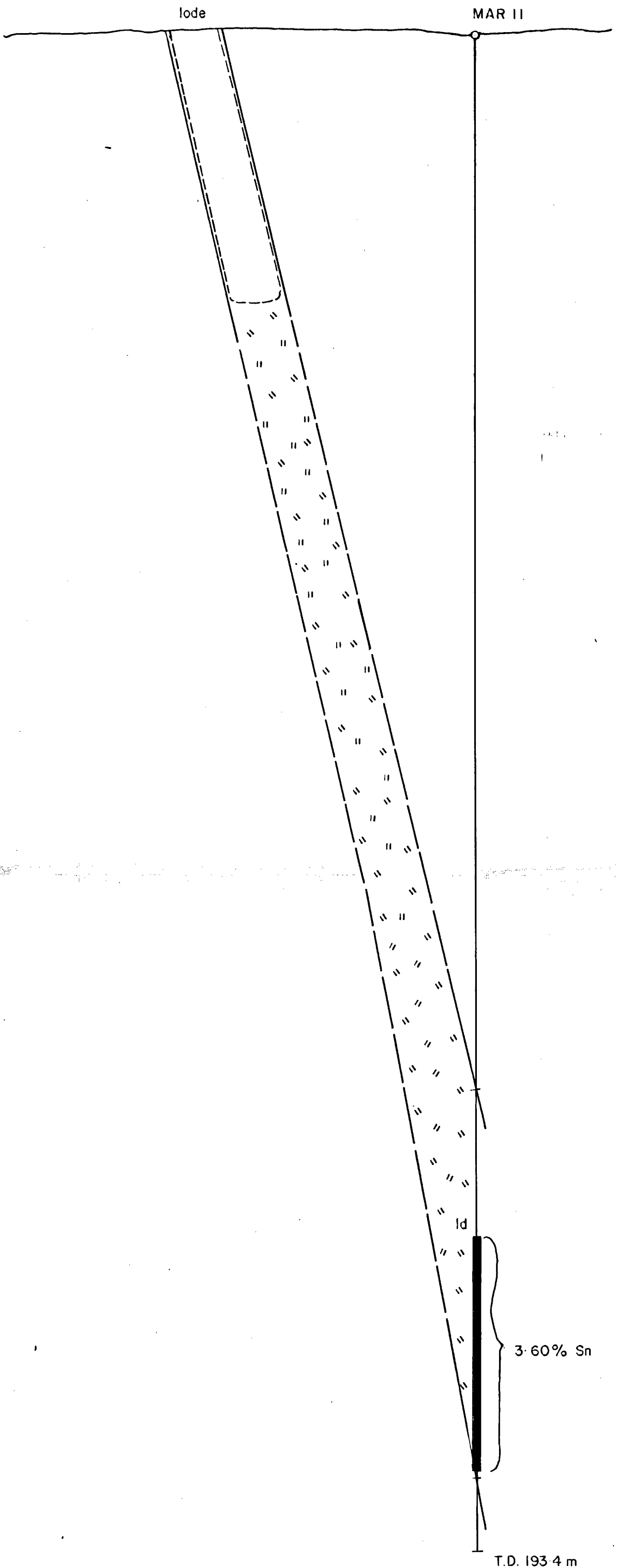


METRES

REVISION		SCALE 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.	
		GEOLOGIST: K.A., R.D.	MARANBOY TINFIELD SOUTHERN CLAIM LEASE MAIN LODE CROSS-SECTION LOOKING NW MARANBOY 9 PDH <i>CR1981-0316</i>	
		DRAFT: S.T.B.		
		CHECKED:		
		DATE: OCT, 1981		
		MICROFILMED		
		ROLL No.:		
		MINING FIELD OR DISTRICT: MARANBOY, NT		DRG No.: 1/3595



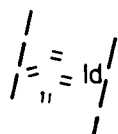
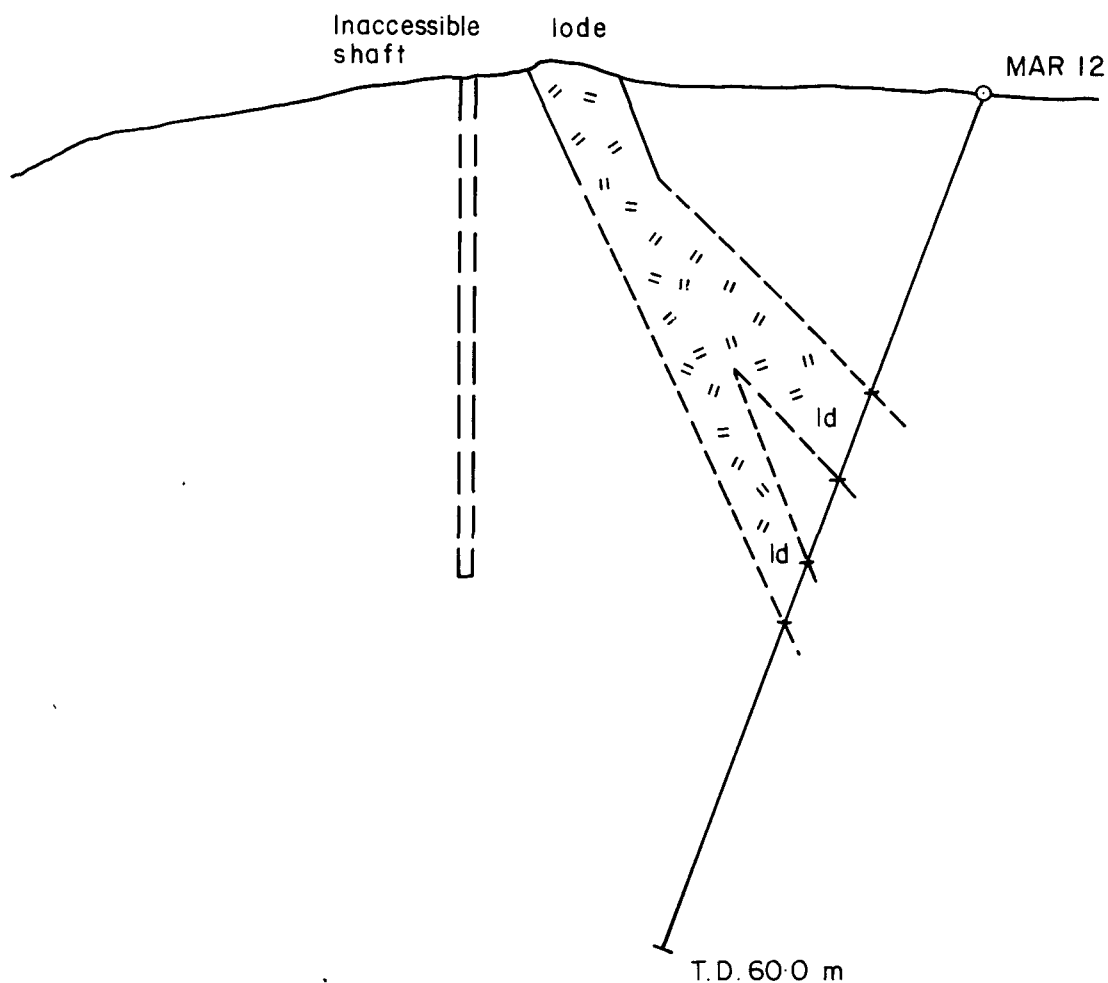
REVISION		SCALE: 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.	
		GEOL. R.D.	MARANBOY TINFIELD RAY LEASE MAIN LODE CROSS-SECTION LOOKING NW MARANBOY 10 PDH MARANBOY 10 PDH CR1981-0316	
		DRAFT: S.T.B.		
		CHECKED:		
		DATE: OCT, 1981		
		MICROFILMED:		
		ROLL No.:		
		MINING FIELD OR DISTRICT: MARANBOY, NT	DRG No.: 21135	
			DRG No.: 21135	



quartz-tourmaline
lode rock

REVISION		SCALE: 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.	
		GEOL. R.D., K.A.	MARANBOY TINFIELD OSMAN LEASE MAIN LODE CROSS-SECTION LOOKING NW MARANBOY II PDH	
		DRAFT: S.T.B.		
		CHECKED:		
		DATE: OCT, 1981		
		MICROFILMED:		
		ROLL No.:		
MINING FIELD OR DISTRICT: MARANBOY, NT			DRG No.: 21132	

CR1981-0316

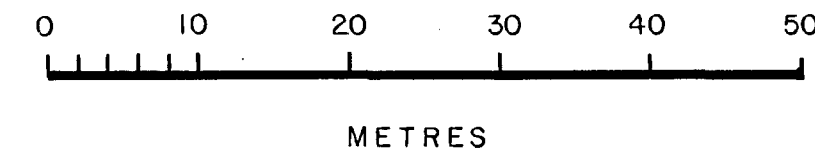
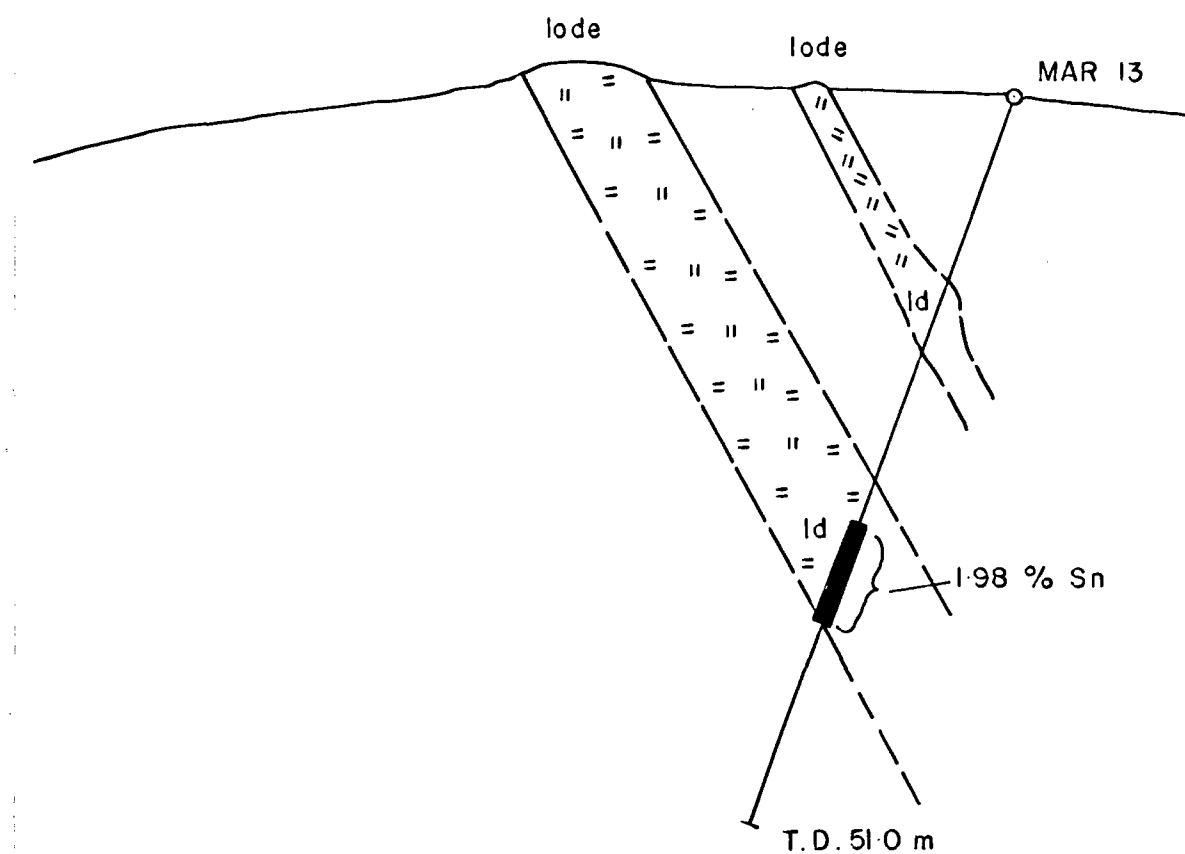
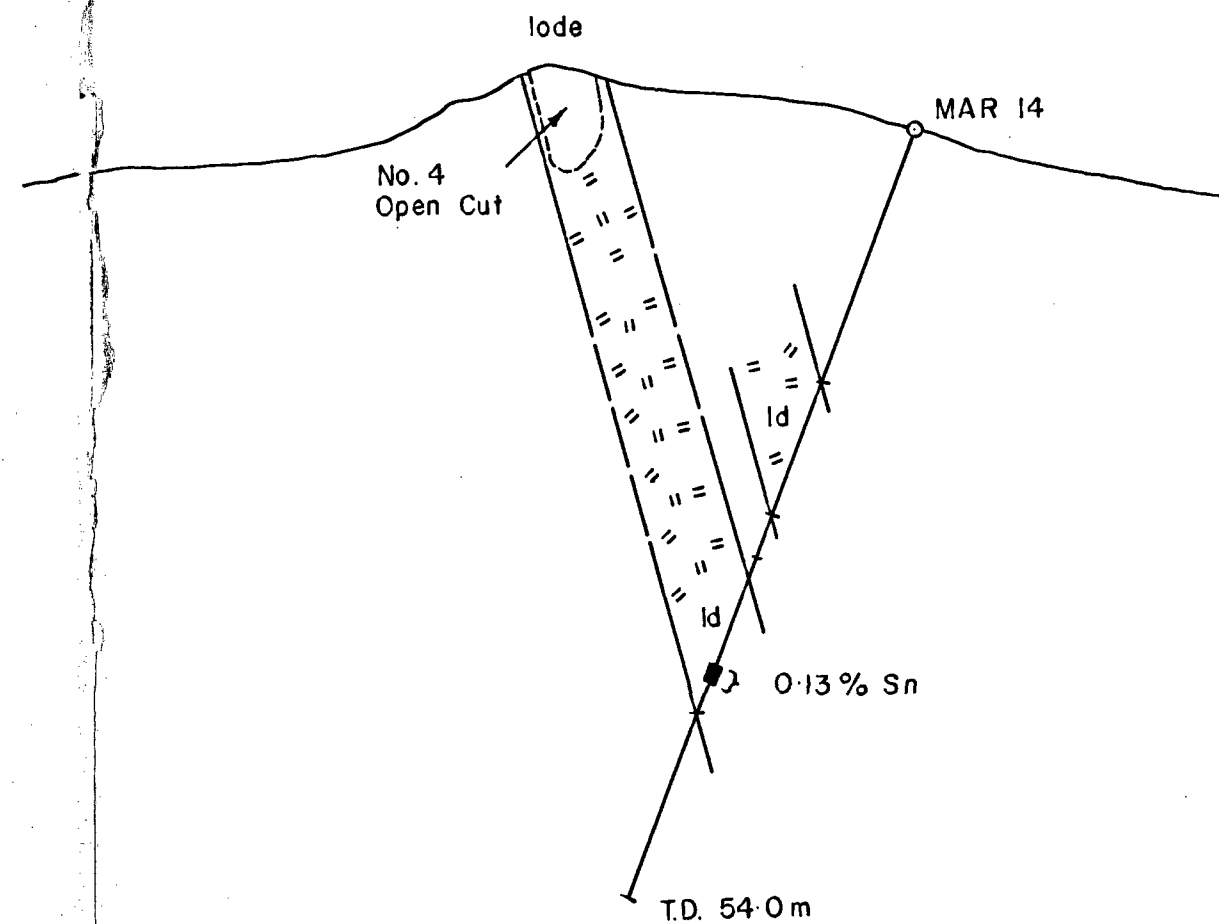
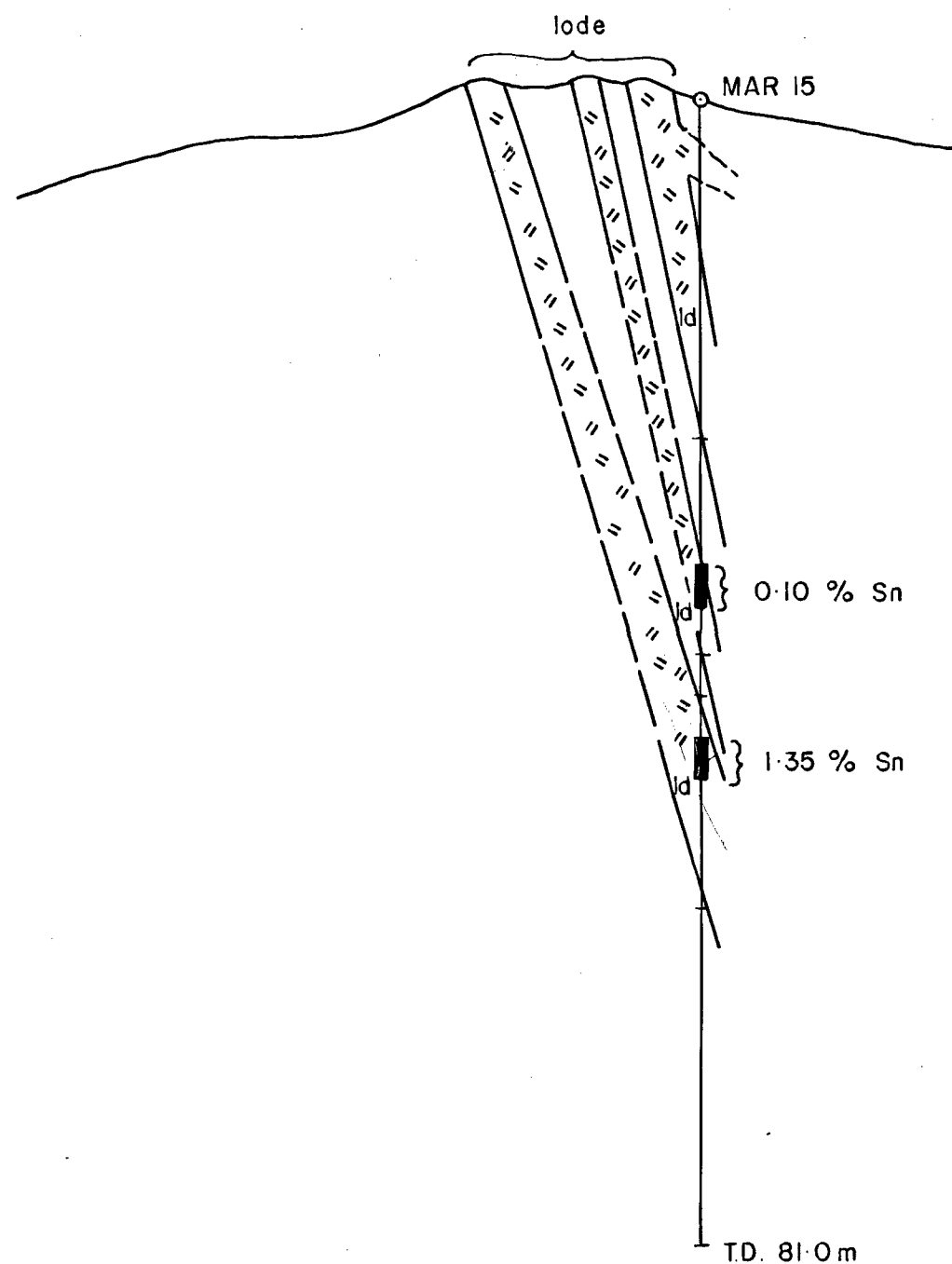


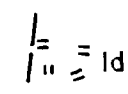
quartz - tourmaline
lode rock



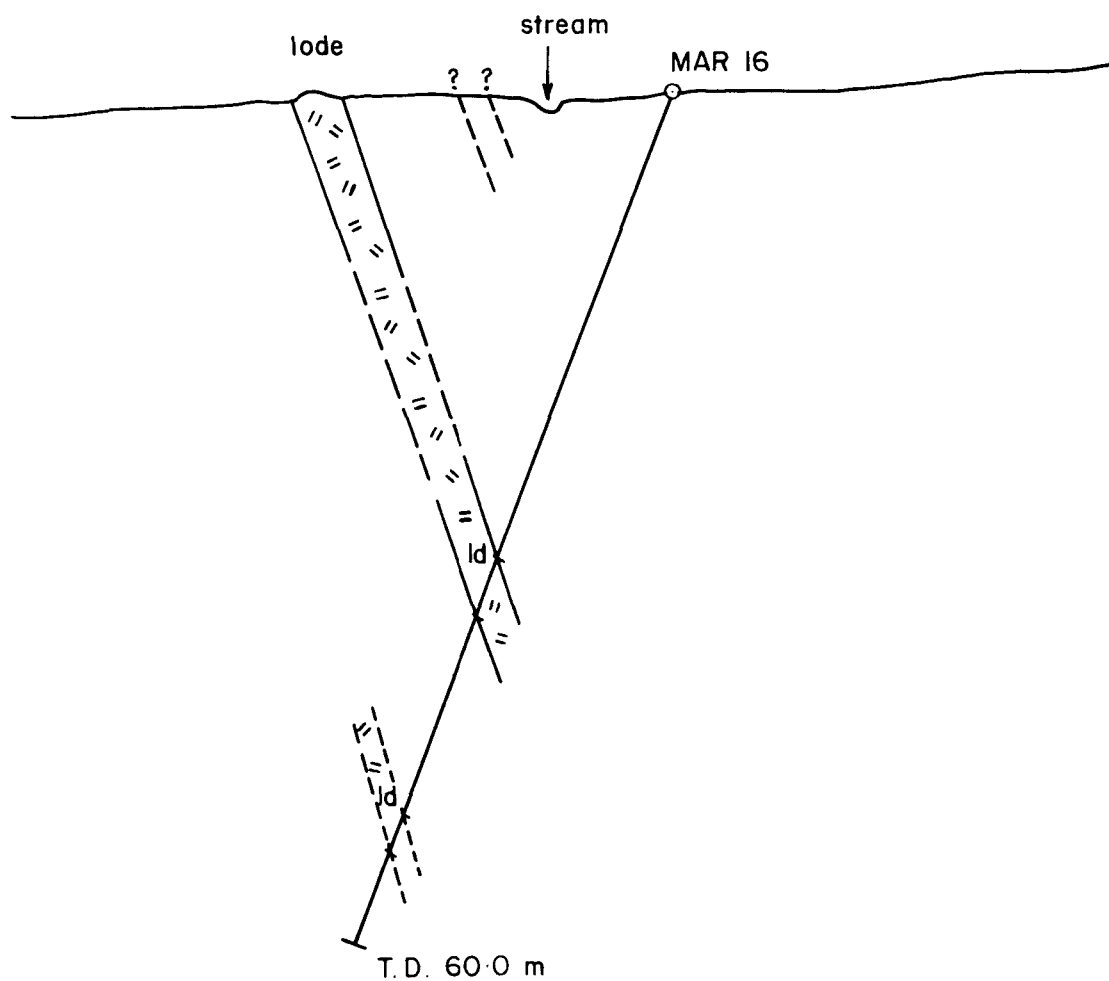
METRES

REVISION		SCALE: 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.	
		GEOL: K.A., R.D.	MARANBOY TINFIELD RED CROSS LEASE STANNUM KING LODGE CROSS-SECTION LOOKING NW MARANBOY 12 PDH <i>CR1981-036</i>	
		DRAFT: S.T.B.		
		CHECKED:		
		DATE: OCT, 1981		
		MICROFILMED:		
		ROLL No.:		
		MINING FIELD OR DISTRICT: MARANBOY, NT		DRG No.: 1/3591

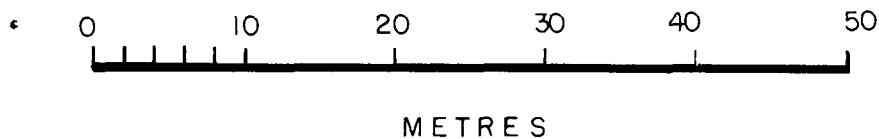



 quartz-tourmaline
 lode rock

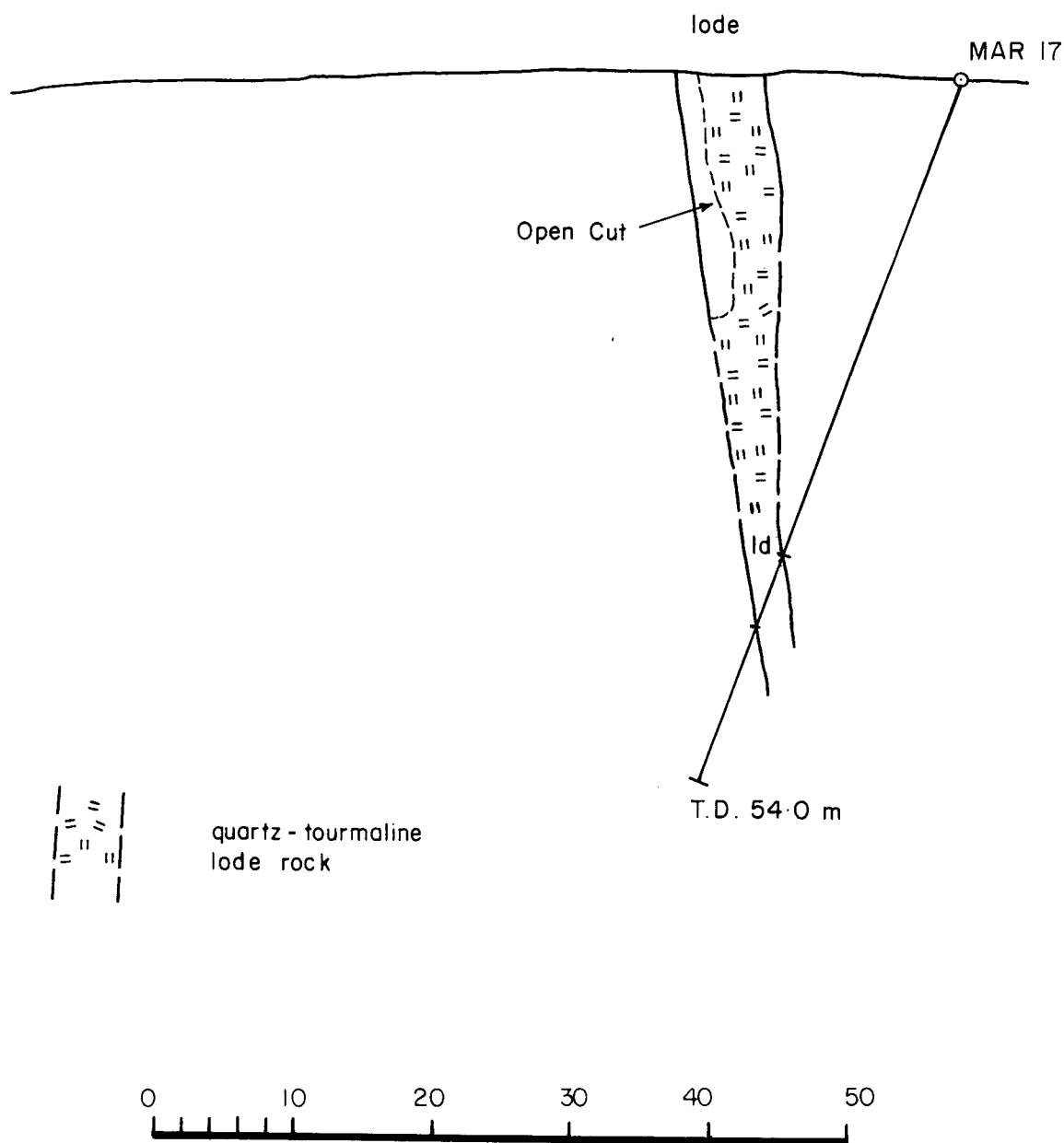
REVISION	SCALE: 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
	GEOL: K.A., R.D.	MARANBOY TINFIELD PROGRESS LEASE CR1981-0316 STANNUM KING LODGE CROSS-SECTIONS LOOKING NW MARANBOY 15, 14 & 13 PDH
	DRAFT: S.T.B.	
	CHECKED:	
	DATE: OCT, 1981	
	MICROFILMED:	
	ROLL No.:	
	MINING FIELD OR DISTRICT: MARANBOY, NT	DRG No.: 21131



 ld / quartz-tourmaline
 lode quartz



REVISION		SCALE 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD.	
		GEOLOGIST: K.A., R.D.	MARANBOY TINFIELD STANNUM KING LEASE STANNUM KING LODGE CROSS-SECTION LOOKING NW MARANBOY 16 PDH	
		DRAFT S.T.B.		
		CHECKED:		
		DATE: OCT, 1981		
		MICROFILMED		
		ROLL No.		
		MINING FIELD OR DISTRICT: MARANBOY, NT		CR 1981-0316 ORG No. 1 / 3592



REVISION		SCALE 1:500	CARPENTARIA EXPLORATION COMPANY PTY. LTD. MARANBOY TINFIELD IBIS LEASE STANNUM KING LODGE CROSS-SECTION LOOKING NW MARANBOY 17 PDH <i>CR 1981-0316</i>
		GEOLOGICAL: K.A., R.D.	
		DRAFT: S.T.B.	
		CHECKED:	
		DATE: OCT, 1981	
		MICROFILMED	
		ROLL No.	
		MINING FIELD OR DISTRICT: MARANBOY, NT	
			DRG No. 1/3594