### Open File Envelope No. 5449

**EL 1005** 

**YANINEE** 

### PROGRESS AND FINAL REPORTS TO LICENCE SURRENDER FOR THE PERIOD 2/6/82 TO 1/12/84

Submitted by Carpentaria Exploration Co. Pty Ltd 1984

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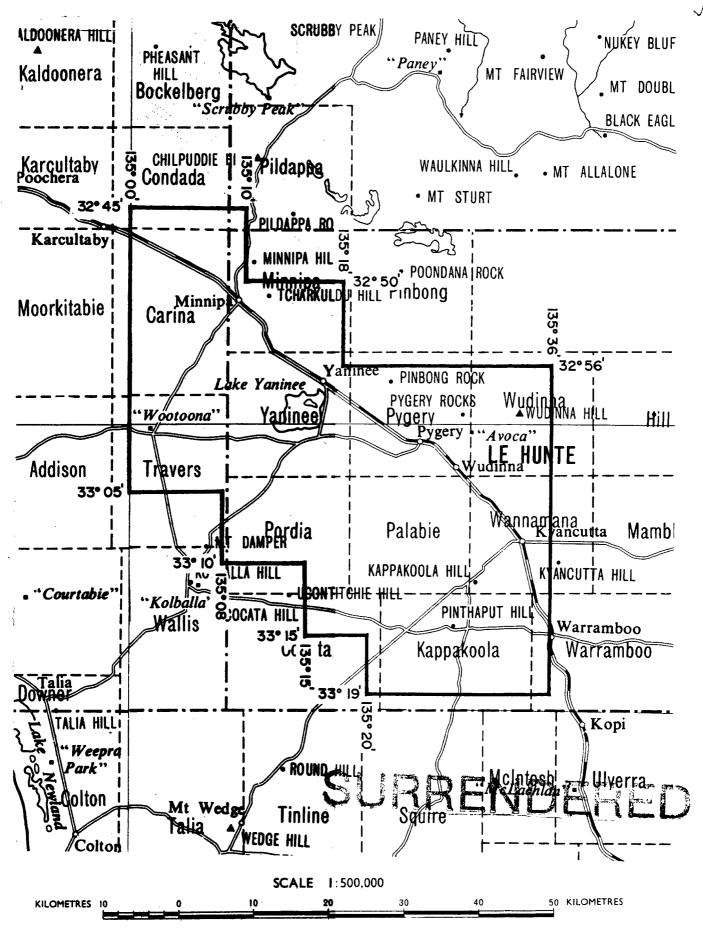
#### CONTENTS ENVELOPE 5449

TENEMENT: E.L. 1005 - Yaninee.

TENEMENT HOLDER: Carpentaria Exploration Company Pty. Ltd.

REPORT: Quarterly Report Ended 31st March 1984.	Pg. 3
Quarterly Report Period Ended 1st June 1984.	Pg. 4
Quarterly Report Period Ended 1st Sept. 1984.	Pgs. 5-78
APPENDIX A: Input Equipment And Procedures.	Pgs. 79-99
APPENDIX B: Instrument Specification And Calibrations.	Pgs. 100-102
APPENDIX C: Analogue Records.	5449-1 To 12
APPENDIX D: Flight Logs - Refer To Plans 5449-3 To 16.	Pg. 103
PLANS: Survey Area Location Map.	Pg. 74
Flight Line Path. Drg. No. 30685.	5449-13
Location & Type Of Input Airborne EM Anomalies. Drg. No. 30686.	5449-14
RAB Drillhole Location Plan. Drg. No. 30692.	5449~15
RAB Sample Geochemistry. Drg. No. 30693.	<b>5449-16</b>
REPORT: Final Report Quarter Ended 1st December 1984.	Pgs. 104-106

#### SCHEDULE A



APPLICANT: CARPENTARIA EXPLORATION COMPANY PTY. LTD.

DM: 680/8I AREA: 2276 square kilometres

1:250000 PLANS: YARDEA KIMBA

LOCALITY: YANINEE AREA - EYRE PENINSULA

DATE GRANTED: 2.6.82

DATE EXPIRED: 1.6.83

EL No: 1005

# CARPENTARIA EXPLORATION COMPANY PTY. LTD. EXPLORATION LICENCE NO. 1005 "YANINEE" PROGRESS REPORT FOR QUARTER ENDED MARCH 31, 1984

This report covers the work carried out on the Yaninee area which is the last remaining current exploration licence over the Narlaby Palaeochannel. It covers the period from January 1, 1984 to March 31, 1984.

#### 1. TERMS AND CONDITIONS

The exploration licence covers an area of  $2276 \text{ km}^2$  and was granted on June 2, 1982 for a term of one year. The expenditure commitment is \$70 000.

#### 2. EXPLORATION

No work concerning uranium exploration was carried out during the quarter. We are now interested in exploration for base metals in the south-east corner of the area. The western end of the Warramboo Magnetic anomaly is located in this area.

A trial INPUT survey was flown over this area and preliminary results showed the presence of two minor anomalies. Results will be forwarded next quarter.

It is planned to carry out approximately 5000 m of RAB drilling early in the next quarter.

#### 3. EXPENDITURE

A statement of expenditure is appended.

for G. Hooper Geologist

7 MAY 1984

DEFT. OF MINES AND ENERGY SECURITY

5440

This report covers the work carried out on the Yaninee area during the period April 1, 1984 to June 1, 1984, the expiry date of the current licence.

#### 1. TERMS AND CONDITIONS

The exploration licence covers an area of  $2276 \text{ km}^2$  and was granted on June 2, 1982 for a term of one year. It was subsequently renewed for a further twelve months. The expenditure commitment for the two year term is \$140 000. We have now applied for an extension of the licence which is due to expire on June 1, 1984.

#### 2. EXPLORATION

, Š.

The INPUT data (is) still not in a form suitable for presenting to the Department. This (is currently being produced and will be submitted at a later date.

A RAB drilling programme of 66 holes totalling 2192 m has been completed over the western end of the Warramboo magnetic anomaly. Assay results are still awaited. Drill hole logs and a location plan will be submitted when completed.

#### 3. EXPENDITURE

A statement of expenditure is appended.

To be forwarded

for G. Hooper Geologist

RECEIVED
3 JUL 1984

DEPT. OF MINES
AND ENERGY
SECURITY

# CARPENTARIA EXPLORATION COMPANY PTY. LTD. EXPLORATION LICENCE NO. 1005 "YANINEE" PROGRESS REPORT FOR QUARTER ENDED SEPTEMBER 1, 1984

This report covers the work carried out on the Yaninee area during the period June 1, 1984 to September 1, 1984.

#### 1. TERMS AND CONDITIONS

The exploration licence covers an area of  $2276~\rm{km}^2$  and was granted on June 2, 1982 for a term of one year. It was subsequently renewed twice for a further two years. The expenditure commitment for the three year term is \$170 000.

#### 2. EXPLORATION

Drill hole logs from the previously reported RAB drilling programme have been completed and are included with this report. Drawings Nos. 30692 and 30693, which show the drill hole locations and the geochemical assay results are also included.

The INPUT data has now been finalised. and appended is the report on the survey by Geoterrex. Drawing No. 30685 shows the flight line paths while Drawing No. 30686 shows the location and type of anomalies detected by the survey.

#### 3. EXPENDITURE

A statement of expenditure is appended.

r G. Hooper Geologist



CARPENTARIA EXPLORATION COMPANY PTY. LTD. PROSPECT YANNEE

LOCATION Skm NW Warranton

306

HOLE Nº KRAB I

AMPLE Nº	A	NALY	SES	p p m /	/%	DE PTH METRES	LOG	DESCRIPTION	REMARKS
5751				•				CALCRETE	
52	:						##	_	
53 54						-		SAVOY CLAY Orange brown	
55		- 1				- ,		minor grey green  SILTY SAND pale brown F gr.  SAND F gr white partly silicified.  Drange dark grey brown  SAND very F gr, black	1
56		ł	į	•		- /0		SAND For white party silicified.	
56 57 58								dark grey brown	
. 58						-		SAND very Fgr, black	: .
59 60	1					-			
61					,	-20		- 11 1	
762						-		SILT black	•
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REASON FOR HOLE:

OTHER DETAILS :

LOGGED BY : G. HOOPER DRILL TYPE : ME PAND TR3 DATE DRILLED: 5/4/84 DRILLER: P. NITSCHEE SCALE: 1:500 DRG/CODE No:

PROSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 3.5 Km MWW WATYAM 600 HOLE Nº KRAB 2

SAMPLE Nº		ANAL	YSES T	<i>p p m</i>	/%	DE PTH METRES	LOG	DESCRIPTION	REMARKS
715763		<u> </u>			1	- INIS		SAND For pak brown	
64 65 66						-		calcrete bands CLAYEY SAND F que gray to pink brown	
· 67 68 69 70						- 10 -		CLAYEY SAND F go dark goey	
71 71 15772					:	- - 20		CLAYEY SAND very f gr grey	
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REASON FOR HOLE:

OTHER DETAILS :

DRILLTYPE: MG RAND TR3 LOGGED BY : P BANKS DRILLER: P. NITSCHEE DATE DRILLED: 5/4/84 1:500 SCALE: DRG/CODE No:

CARPENTARIA EXPLORATION COMPANY PTY. LTD. PHOSPECT YANINEE LOCATION 35 Km NNW WATTER DO DRILL HOLE LOG

300

HOLE Nº KRA8 3

HOLF CO-URDINATES SS4050E 6324380N T.D. 14m SAMPLE ANALYSES ppm/% LOG DESCRIPTION REMARKS Aq Cu Au SANDY SOIL brown minor calcrete 7/5773 44 74 75 SANDY CLAY pale brown 76 SANO BEDROCK highly weathered, white clay a grz, probably a gnessic rock 77 11:1 10 78 111 .6 6 8 <1 0.08 715779 HOLE STOPPED, no penetration -20

REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING. RAND TR3 LOGGED BY : G. HOOPER DATE DRILLED: 5/4/84 DRILLER: P. MITSCHKE SCALE: 1:500 DRG/CODE No:

CARPENTARIA EXPLORATION COMPANY PTY. LTD. PROSPECT YANINEE LOCATION 3.5 Km NWW WATTAMERS AIR BLAST DRILL HOLE LOG

HOLE CO-DEDINATES 554000F 6324440N

HOLE Nº KRAB 4

HOLE CO-	ORDIN	ATES -	55400	0E K	324480	ツヘ		TO 14m	009_	ينصون
SAMPLE Nº				ppm/		DL PTH ML TRES	LOG	DESCRIPTION	REMARKS	WATER
7157 80 81 82	Cu	Pb	Zn	.Aq	Au			SAND a f que pale brown , silcreted		=
83 84 - 85 715786	B	. 8	2	<1	0.06	'	+ + +	SAND For grey to brown, silcreted  BEDROCK ? weathered GRAMTE  grey med or gtz * clay  trace muscovike		
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<b>-</b>						-		DRILLTYPE: ING RAND TR3 LOGGE	D BY: P BURS	L

REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING. RAMO TR3 LOGGED BY P BURS DATE DRILLED: 5/4/84 DRILLER : P. NASCHLE DRG/CODE No:

SCALE: 1:500

PROSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION . 3.5 Km NVW Warram 600

HOLE Nº KRAB 5

MPLE	ANALYSES	ppm/	324580N	100	DESCRIPTION	REMARKS
Nº	T T		METRES			REMARKS
787 88 89 90 91 92 93 794			- 10	<del>-}</del>	SAND " CALCRETE F gr pale orange brown  CLAYEY SAND pale brown  SAND F gir white a silvereled  II F gr pale brown to dark brown.	
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REASON FOR HOLE:

LOGGED BY : P BINES DRILL TYPE: MG. RAND TRS DATE DRILLED: 5/4/84 DRILLER: P. MISCHEE DRG/CODE No: SCALE:

ATUED DETAILS :

PRUSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. LOCATION 3.0 km NNV Warramboo

HOLE Nº KRAB 6

011

AMPLE				ppm,	/%	DEPTH	LOG	DESCRIPTION	REMARKS
No	Cu	PL	Zn	.Ag		METRES		<u> </u>	
97 96 97 98 99 5800 01 02	20	16	22	<1		- 10		SANDY SOIL O CALCRETE  FERRICRETE hand, dark purple  SAND F go yellow  BEDROCK ? highly weathered METASEDIMENT  m go gtz, much sericite/horum  cay  16-18m no sompte betan, highly confominated	
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING. RAND TR3 LOGGED BY: G. HOOPER DATE DRILLED: 5/4/84 DRILLER: P NITSCHEE DRG / CODE No: SCALE:

PROSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY, LTD.

LOCATION 3-1 1 AAN IL ATTENDED

HOLE Nº KEABT

HOLE CO-ORDINATES 55 1908 6042/04

HOLE CO	-OHDII	VATES	5541	9 <b>0</b> /	6 C42	10.0V	-11	24m	
SAMPLE Nº				ppm	1%	DEPTH.	106	DESCRIPTION	REMARKS
	Cu	PL	Zn	129	1	MITHIS	<b>I</b>		REMARKS
7/5803 - 04 - 05 - 06 - 07 - 08 - 09 - 10 - 11 - 12 - 13 - 7/5814	34	26	30	<1 ,		- 10 - - - - -20	·	STIND . F gr., pule brown CHICRETE SAND formiereted & silereted  " F gr., silereted.  BEDROCK, highly weathered grey to pale brown m gr gtz, weathered Feldspar . Soricite, F gr black minemal ? METASEDIMENT	
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: INC. RAND TR3 DRILLER : P NITSCHKE SCALE: 1:500

LOGGED BY : P BAKS DATE DRILLED: 5/4/84 DRG/CODE No:

PROSPECT YANNEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. ROTARY AIR BLAST DRILL HOLE LOG

UNIE FOLDDINATES 5542 60E 6324/30A/

TA 16m

HOLE Nº KRAB 8

013

MINIELE.		ANAL	YSES	ppm/	1%	DE PTH	1.		
Nº Nº	Cu	Pb		Ag	1	METRES	LOG	DESCRIPTION	REMARKS
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CARPINTARIA EXPLORATION COMPANY PTY, LTD. PROSPECT YANINEE LOCATION 29 Km Now Wassanton

DRILL HOLE LOG

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HOLE Nº I'CAB 9

HOLE CO-ONDINATES SS42900 GS: 40401 10 24m

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SAMPLE Nº	Cu	PL	YSES Zn	ppm,	/ % T	MITHS	LOG		DI SCRIPTION REMARKS	*47.50
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DRILLER: P. NITSCHKE

SCALE: 1:500

DATE DRILLED: 5/4/84 DRG/CODE No:

OTHER DETAILS :

PROSPECT YMAINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 281. 144 Wastambro

HOLE Nº KIAB 10

DATE DRILLED: 5/4/84

DRG / CODE No:

OTHER DETAILS :

MPLE Nº		ANAL	YSE5	ppm/	1% T	DE PTH METRES			DESCRIPTION		REMARKS	
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DRILLER: P NITSCHKE SCALE: 1:500

PROSPECT YANNEE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

LOCATION 2.7 km 1m Warramboo

HOLE Nº KRABII

PLE 0				ppm/	/%	DE PTH METRES	LOG	DESCRIPTION	REMARKS
	Cu	Pb	Zn	·Ag		METHIS			
45								CPLCRETE	
46				 					,
47								11 " red brown 5PMD Ferricrahed o silverhed .	,
48 49			-			-10		SAND Ferricrated a silverted .	-
50		-				-		SAND. For pale brown, with silerete bonds	
51 52						-			
53								SAND For dark brown	
54	50	2/	170	<1		<i>20</i>		BEDOORY	,
55	50	26	120	,		-	1 ; 1	BEDROCK M-c go g/z, musc oclay (after febt) ? weathered gness (one fragment	•
	•				_	-		of F GI WHED METISED WITH	•
1						-30		black mineral possibly after magnetite	
-	ĺ					-		HOLE ABANDONES - due to collepsing sand.	
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE : ING. RAND TR3 DRILLER: P. MITSCHKE SCALE: 1:500

LOGGED BY : PBMKS DATE DRILLED: 6/4/84 DRG/CODE No:

PROSPECT YANNEE CARPENTARIA EXPLORATION COMPANY PTY, LTD. LOCATION 2.6 km NAW WATTIME 6323790N

HOLE CO-DEDINATES SS45701 6323 MAY N

OTHER DETAILS :

018

HOLE Nº KRAB 12

HOLF CO	•ORDIN	VATES -	5545	701	6323,	11.11		15. 16m		ÜLÜ
SAMPLE Nº		ANAL	YSES	ppm/	/%	IN PTH MITHIS	LOG	DES	CRIPTION	REMARKS
15856 57 58 59 60 61 62 15863						- 10		LAYEY SAND Oran	pink, calcarrous  minor kilerohe bands  ge - brown	
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EASON	v FOI	R HOI	. E :			-			P. NITSCHEE DAT	GED BY: G. HOOPER E DRILLED: 6/4/84

DRILLER: P. NITSCHKE

SCALE: 1:500

DATE DRILLED: 6/4/84

DRG/CODE No.

PROSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

HOLE CU-OHDINATES 554 6402 6:37 1/00 -

HOLE Nº KRAR 13

017

LE	(u	PL	Zn	PPM,	/ % T	IX PIH MI THI S	100	DESCRIPTION	REMARKS
7			<del> </del>		<del> </del>	<del> </del>	44.	SHWD . F. gr pale brown	<u> </u>
5/2		,				- 10 -	7-2-2	CLAYEY SAND F go red brown SAND Feiricialed a silvacted red brown	
3 4						<i>20</i>	<b>1 1 5</b>	BEDROCK highly weathered  pale gray gtz white clay  sericite voct (? w.Ked GREISS)	
6	.					-	; f	grey	•
8		<u>.</u>				-30 -30	~ ~	u dark grey biotite, gtz, wild Feldspar rock (biotite SCHIST)	
7	60	14	190	<1		r  -	~		,
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5 6 7	80	6	120	<1	•		~ ~		
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING. RAND TR3 LOGGED BY: P BINKS DRILLER: P NITSCHKE DATE DRILLED: 6/4/84 SCALE: 1:500 DRG/CODE No:

EXPLORATION COMPANY PTY, LTD. PROSPECT YANNEE CARPLNIARIA DRILL HOLE LOG ROTARY AIR BLAST

LOCATION 24 Km NOW WAY 6,323,620N

HOLE CU-ORDINATES 554720N 6236.141 2.5

3/4,

HOLE Nº KRAB 14

SAMPLE ANALYSES ppm/% DE PIH DESCRIPTION REMARKS LOG No Pb Zn My STANIT SOIL orenge 715888 yellow pink " ralca reors SILT . 89 CALCRETE 90 CLAYEY SAND orange brown SILT pink white a silcrete 91 92 10 FERRICAETED SAND red to red by. 93 94 95 96 highly weathered mg gtz BEBROCK a cream chy 97 gregiel pale brown - cream brown sericite, gtz, trace biotite 20 98 99 900 grey a greenish wheel a qui febsper a biolite minor mac gratz 01 02 feldsper Liotile CNEISS. 30 5 16 50 190 <1 7/59 03 40

REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 DRILLER: P. NITSCHKE

1:500

SCALE:

LOGGED BY : G. HOOPER DATE DRILLED: 6/4/84 DRG/CODE No:

CARPENTARIA EXPLORATION COMPANY PTY, LTD. PROSPECT YPAINEE

DRILL HOLE LOG

LOCATION 23Km NAW Warran boo

HOLE CU OHDINATES 5547802 6323550N

T.D. 32m

719

HOLE Nº KRAB 15

SAMPLE Nº				ppm/	/%	DEPTH METRES	LOG	DESCRIPTION	REMARKS	15
	Cu	Pb	Z <sub>n</sub>	· Ag		MLINES	1			WATER
715904			1 /	•	]	L '	节	SAND a pale blown CALCRETE		
- 06	!		1 '			<b> </b>		CLAYEY SAND and brown Figs.	•	
07	!		1 '			} '	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CANA Vollow - SIkrehod.		
- 08	ľ	1 1	1	1	١.,	} <u>'</u>		SAND yellow sikrehod.  11 - red brown, Ferricrehod	/ '	
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12	!	l. ]	( '	1		[ '	1	BEDROCK grey glz, sericite, who fells rock (what GNEISE)		]
/3	1	1 1	1 1	1 '	1	-20	[ ' ]	(wHed GNEISE)		
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAMS TR3 LOGGED BY: P BINKS DRILLER: P NITSCHKÉ SCALE: 1:500

DATE DRILLED: 6/4/84 DRG/CODE No:

HOLE Nº KRAB 16 CARPENTARIA EXPLORATION COMPANY PTY. LTD. PROSPLCT YANNEE LOCATION 2.2 Km & Warram 600 PRILL HOLE LOG

HOLE CO-ORDINATES SS4850E 6323470N

7 A 32m

220

HOLF CO	•ORDIN	VATES -	5548	SOE (	63234	70 V		7.D 32m	020	
SAMPLE Nº				ppm,	/%	DE PTH METRES	LOG	DESCRIPTION	REMARKS	
715920	Cu	PL	Zn	Ag			++:	CALCAREOUS SOIL . Cream white	· · · · · · · · · · · · · · · · · · ·	#
21 22 23 24 25 26 27 28 29 30				· .		- 10 20	1,1	CALCRETE  CLAYEY SAND crange brown  SAND F gr pale brown  M yellow a Silcreted.  II red brown a ferricrated.  BEDROCK highly weathered cream brown a yellowish cay minor gtz  II brown-grey green what fethpar (sericitic) minor from graytz.		
31 32 33 34 915935	70	20	34	<1		- 30	5	minor ( gr green whood Feldspars minor ? muscovike + w.H. biotike F gr black oxidesed ? magnetike	· · · · · · · · · · · · · · · · · · ·	  - 
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REASON			<i>-</i> .					DRILL TYPE: ING RAND TR3 LOGGEL	BY : G. HOOPER	

REASON FOR HOLE:

DRILLTYPE: ING RAND TR3 LOGGED BY: G. HOOFER DRILLER: P. NITSCHKE DATE DRILLED: 6/4/44 1:500 SCALE: DRG/CODE No:

OTHER DETAILS:

CARPENTARIA EXPLORATION COMPANY PTY, LTD. PROSPECT YAMINEE

LOCATION 2-1 Km N Warrani LOT

5549206 GAZELVEN 6323390N

021

HOLE Nº KRAB 17

NO G. PB Zn Ag MITHIS  15936  37  38  39  40  41  41  42  43  44  45  46   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AMPLE					(32 K)	DC PTH	<u> </u>	7.0, 74m
15936 37 38 38 39 40 41 42 43 44 45 46 5947 34 6 12 6 11 11 12 11 11 11 11 11 11 11 11 11 11	No _					70		10G	DESCRIPTION REMARKS
46 5947 34 6 12 <1 1 1 7 biolike GNEISS	38 39 40 41 42 43	4					-10		CLAYEY SHOD red brown  SAND red by lo puyple, Ferricrated.  BEDROCK highly weathered gray to cream  Sericitic utted Febs. York
	45 46 15947	34	6	/2	<1		<i>20</i>	, t	
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REASON FOR HOLE:

OTHER DETAILS:

DRILLER: P MITSCHEE

SCALE: 1:500

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DATE DRILLED: 6/4/84

DRG/CODE No:

PROSPECT YANINGE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 2 km & Warram kmc (1723 Tight)

HOLE CO-ORDINATES 554950 63233/CIN 1 74

300

HOLE Nº KEHE 18

HOLE CO-	אוטהע	والمستونية والمستون				_		1.0. 24m	022
SAMPLE Nº	Cu	PB	YSES Z	PPM.	/ % 	IN PTH MI THIS	LOG	DESCRIPTION	REMARKS
7/5948 - 49 - 50 - 51 - 52 - 53 - 54 - 55 - 56 - 56 - 58 - 58 - 58	75	32				-/0		CALCRETE  CLAYEY SAND Orange Minor pale green  SAND silcreted minor ferricrete  pale yellow brown  REDROCK highly weathered, purplish a  yellow clay  II cream to pale by clay a  fin gr gtz  II dark grey a trown much sericite  minor m gr gtz a biotiste  possibly large with Feldspore (Icm)  schistose.	
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REASON FOR HOLE:

OTHER DETAILS :

LOGGED BY : G. HOOPER DRILL TYPE: ING PAND TR3 DRILLER: P WITSCHKE DATE DRILLED: 7/4/84 SCALE: 1:500 DRG/CODE No:

EXPLORATION COMPANY PTY. LTD. YANINEE CARPENTARIA LOCATION 19 to Warranter PROSPECT

DRILL HOLE LOG

HOLE Nº KRAB 19

6,323,240N

HOLE CO-ONDINATES 5550 GE 1.573.4001 7.0 24.9 ANALYSES ppm/% SAMPLE IX PIH LOG DESCRIPTION REMARKS No MLTRES Pb Zn Au Cu 4·1-F gr pale L. 715960 SAND CLAYEY SAND For red be 61 62 63 64 fige sed by he yellow, Ferricrotal. SAND 65 67 68 69 70 BEDROCK highly weathered pale gray with feels some gtz grains gray sericite, all felt, gtz rat. 7/5971 200 16 </ 10 5

REASON FOR HOLE:

OTHER DETAILS :

LOGGED BY : P BINKS DRILL TYPE: ING RAND TR3 DRILLER: P. NITSCHKE DATE DRILLED: 7/4/84 SCALE: 1:500 DRG/CODE No:

MAINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. ROTARY AIR BLAST DRILL HOLE LOG

4551301 6323150N

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HOLE Nº KERR 20

N° 5972 73	Gu	1 1/1				METRES	LOG	DESCRIPTION RE	MARKS
		PL	7	Pg	ļ	MI INIS			4
74 75 76 77 78 79 80 81 82 83 84 85 86 987	16	26	18	<1		- 10		SHIP CHICKETE brown  CALCRETE  CLAYEY SAND orange brown  SAND Far pink brown, Ferricreted in pant.  SAND white-pade yellow, staceted.  If real brown, Ferricreted.  BEDROCK highly weathered, pade he ewhite clay  white clay minor from grafts  If grey brown cky minor sepricite  after fellspan a from grafts  minor dissen. oxiol. Pyrn magnethe  If may 7 to a wheat feldspans  minor V car glos I freel plag  minor 2° pyrite. V far.	
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REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DRILLER: P. NITSCHKE

DATE DRILLED: 7/4/84

OTHER DETAILS :

SCALE: 1:500

DRG / CODE No:

PROSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE Nº KRAB 21 LOCATION 1.7 Km N Warramber 6,323,060N

105

DESCRIPTION  REMARKS  GU 1/2 Zn 1/4  WITHIS LOG  DESCRIPTION  REMARKS  SPAND & pale brown t. qr  CHRYLY SAND F. gr (and brown)  SAND F. gr pale brown, sikrehed.  REPARKS  1   REPARK highly which GNESS, pale green will Feblipans, glz, servicite  1   Induly, which GNESS with bands of limonike (wat samples)  1   Soupy samples - real brown no Fragments  1   Soupy samples - real brown no Fragments  1   Sample weeked rebundant magnetite GNESS.  HOLE ARANDONED - hard ground	GL B Zn My MINIS  CRICKATE  CHAPTY SAND F gr rad brown  CHAPTY SAND F gr rad brown  SAND F gr pale brown, sikeehad.  SAND F gr pale brown, sikeehad.  SAND F gr pale brown, sikeehad.  SAND F gr pale brown, sikeehad.  SAND F gr pale brown  WH Felliparts, g/z, servicite  1 boldly, wheel GNESS will bands  of limoniste (wet samples)  1 Soupy samples - vent brown no  Fragments  1 Sample washed a bordent magnetite success.  Sample washed a bordent magnetite success.	GL B Zn 1/4 MINIS  CRICKTE  CLAYEY SAND F gr rad brown  CLAYEY SAND F gr rad brown  SAND F gr pale brown sikeched.  SAND F gr pale brown sikeched.  SAND F gr pale brown sikeched.  SAND F gr pale brown  WH Fethiparts, g/z, sericite  1 botally wheel GNESS with bands  of liminishe (wet samples)  1 Soupy samples - very brown no  Fragments  1 Soupy samples - very brown no  Fragments  Sample washed a bordent magnetite success.
CIFYLY SPND For pale brown.  SPND For pale brown, sikeehod.  S	CIFYLY SPND For pale brown.  CIFYLY SPND For pale brown, sikeehed.  SPND For pale brown, sikeehed.  SPND For pale brown, sikeehed.  SPND For pale brown, sikeehed.  SPND For pale brown, sikeehed.  I BEDROCK highly wheel GNERS, pale green while feltspars, gtz, serietee with feltspars, gtz, serietee of limonike (wat samples)  I botally wheel GNERS with bands of limonike (wat samples)  I Soupy samples - real brown no fragments  I Sample washed abundant magnetife probability a bands magnetife probability a bands magnetife guess.	CIFYLY SPND For pale brown.  CIFYLY SPND For pale brown, sikeehed.  SPND For pale brown, sikee
Sample worked abundant magnetite  Sample worked abundant magnetite  Sample worked abundant magnetite  Sample worked abundant magnetite  probably a handed magnetite GNETES.	Sample weshed abundant magnetite  Sample weshed abundant magnetite  Sample weshed abundant magnetite  probably a banded magnetite GNETES.	18 65 <1 Sample wested abundant magnetite  Sample wested abundant magnetite  Probably a handed magnetite GNETES.
18 18 65 <1 Sample nauted a bundant magnetite probably a banded magnetite GUETES.	18 18 65 <1 Sample nashed a bundant magnetite probably a banded magnetite Gueras.	18 18 65 <1 Sample weated abundant magnetite probably a banded magnetite GNETS.

REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY : P. BINKS DRILLER: P. NITSCHKE DATE DRILLED: 7/4/84

OTHER DETAILS

SCALE: 1:500 DRG/CODE No:

PROSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROJARY AIR BLAST DRILL HOLE LOG

LOCATION 1.6 Km N WESTERNIAM. HOLE Nº KRAB 22

HOLE CU-UNUINATES SSS2501 63229500 718 202

326

HOLE CO	·ORDIN	VATES	5552	501	63229	1,5011	71	37m	026	
SAMPLE Nº				ppm,	/%	IN PTH MITHES	106	DESCRIPTION	REMARKS	WATER
716017 18 19 20 21 22 23 24 25 26 27 28 29 30 31 716032	100	9	240	A.,		- 10 - 20		SAND FOR Sikereted mone Ferricrete  CLAYEY SAND orange brown  SAND FOR Sikereted mone Ferricrete  REDADCK highly weathered gtz = claykeric yellow-white minor purple.  II green brown sericitic clay III dark grey f-m or gtz asericite minor for 2º pyrite II grey sericite acky after feldger minor gtz  II red brown, ferryginous hom, sericite from or gtz minor cream clay after feldger	,he	TA .
		•				40		cream clay atten revispor		
				-						

REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: MG RMS TR3 LOGGED BY: G. HOOPER DRILLER: P NITSCHKE DATE DRILLED: 7/4/87 SCALE: 1.500 DRG/CODE No:

PROSPECT YANINGE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

HOLE CO-ORDINATES 555295E 6322860V 1.1 40m

027

HOLE Nº KEAB 23

South a fig put how a silverted considered for the south of the south				ppm,	/%	DE PTH METRES	LOG	DESCRIPTION	REMARKS
SAND pale brown silverted  SAND pale brown silverted  BEDROCK white clay  I green grey what felds somite  gtz with small nodules o  pateles of black v fq mercante  probably a whed GNESS.	Gu	Pb	Zn	Ag	<del> </del> -			ļ i	<del>de matematica (poeta, et el cont</del>
green grey what felds so ricite  ghz with small modules a  pateles of black vfq mercante  probably a whed GNESS.						- 10		SAND pale brown silcretal	
			:	v		<i>2</i> 0	\$ 5 \$ 5 \$ 1	ii green gray what felds somete  gtz with small nodules o  pateles of black vfq mercaile	
						- 30 -	\$ \$ \$ \$ \$		
	2 70	26	95	<1		- 40 - 40 -	<b>}</b>		
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REASON FOR HOLE: OTHER DETAILS:

DRILL TYPE: WG RAND TR3 LOGGED BY: P BINKS DRILLER: P. AITSCHKE DATE DRILLED: 7/4/84 SCALE: 1:500 DRG/CODE No:

CARPENTARIA EXPLORATION COMPANY PTY. LTD. YANINEE PROSPECT LOCATION 1.4 km N Warrandon

DRILL HOLE LOG

HOLE Nº KRAB 24 028

6323770N

76 3200

HOLE CO-ONDINATES 555340E (3.77 11011 SAMPLE ANALYSES ppm/% DE PIH REMARKS DESCRIPTION LOG No Zn . A., 7/6053 SIFTY SOIL 54 orange brown 55 CLAYEY SAND 56 FERRICRETE 57 -10 58 SILCRETE For yellow 59 60 SAND white · yellow chy + m gr g/2 BEDROCK 61 63 64 65 667 716068 -20 1 gray brown clay after feldspor - 30 44 32 8 ~1 40

REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DRILLER: P NITSCHKE DATE DRILLED: SCALE: 1:500 DRG/CODE No:

OTHER DETAILS :

PROSPECT NANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

HOLE Nº KRAB 25

HOLE CO SAMPLE Nº		ANAL	YSE5	p p m	/%	DC PTH		· ·	29
716069	Cu	Pb	Zn			METRES	111	DESCRIPTION	REMARKS
70 71 72 73 74 75 76 77 78	10	8	10	<1		-/o		SAND & For put brown  CALCETE  CLAYEY SAND For rect brown  SAND For Ferricated  " Silcreted.  BEDROCK white cky (wh felds) & g/z  rement foliation  trace of For hock and	
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DRILLER: P NITSCHKE DATE DRILLED: 9/4/84 SCALE: 1:500

HOLE Nº KRAR 26 EXPLORATION COMPANY PTY. LTD. CARPENTARIA ROTARY AIR BLAST

DRILL HOLE LOG

HOLE CU-ORDINATES SSSY YOF 63225 LON

76 ANALYSES ppm/% DE PTH SAMPLE REMARKS DESCRIPTION LOG ME TRES Nº Au Zn · Aq PL 444 SILTY SOIL CHURATE 716081 CALCRETE 82 CLAYEY SAMO orange brown 83 84 + sikrak ४ऽ 10 26 highly weathered yellow white sericite a gtz miner purphel BEDROCK 87 28 staining 89 " 4 yellor clay 90 -20 91 <-01 red brown clay / sericite . 92 92 93 94 95 96 97 98 28 24 /2 <1 11 30 yellow green mice . 7/2 26 22 24 <1 dark green, mainly chloride lhistite 4 minor F-mgr gtz biolite SCHIST. 60 140 20 <1 40

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DRILLER: P. NITSCHKE DATE DRILLED: SCALE: 1: 500 DRG/CODE No.

PROSPECT VANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. LOCATION I-1 Km N Warramboo

HOLE CO-ORDINATIS 555490E 632246011

HOLE Nº KCAB 27

031

HOLE CO-						The second second	·	D. 32m	707
SAMPLE Nº	Cu	PB		ppm,		DE PTH METRES	LOG	DESCRIPTION	REMARKS
716101 - 02 - 03 - 04 - 05 - 06 - 07 - 08 - 09 - 10 - 11 - 12 - 13 - 14 - 15	40		32	<1	004	- <i>Io</i>	東部 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SAND 4 F Gr pale brown  CALCRETE  CLAYEY SAND F gr red brown  II cream with silcrete bands  BEDROCK white clay (wheel fetspan) agtz  II with Fe staining  II pale grey green wheel  biotite gtz SCHIST	
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DRILLER: P. NITSCHKE

DATE DRILLED: 9/4/84

SCALE: 1:500 DRG/CODE No:

CARPENTARIA EXPLORATION COMPANY PTY. LTD. LOCATION JOKE N HEYAM SOO PROSPECT YANINEE,

HOLE Nº YEAR 28

032

HOLE COLORDINATES SSSSZOE 6322370V TD 32m

	_			10E 63			76	32m
SAMPLE Nº				ppm/	<i>/%</i>	DC PTH METRES	LOG	DESCRIPTION REMARKS
7/6/17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 30 - 30 - 31	1 /	Ps 8				-/O	######################################	SILTY CALCRETE Park brown  CALCRETE  CLAYEY SAND orange brown  FERRICRETE, Siliceous  BEDROCK highly weathered perthy  Silkefield & Ferruginous  M. II & clayey  M. Cream clay, sericite & gtz  M. Orange brown & reddish Ferrug  clay & f-m gr gtz  II grey green, minor brown clay  Sericite. & f-m gr gtz
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L						F	1	DRILLTYPE: ING RAND TR3 LOGGED BY: G. HOOPE

REASON FOR HOLE:

DRILLER: P. NITSCHEE OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DATE DRILLED: 9/4/84 SCALE: 1.500 DRG/CODE No:

CARPENTARIA EXPLORATION COMPANY PTY, LTD. PROSPECT YANINEE

LOCATION O'9 Km N Warring hore 1 227 7 CON DRILL HOLE LOG

6,322,250N see plan.

HOLE CO-ORDINATES SSSSSOE 63221501

3

7.0 32m

333

HOLE Nº KRAB 29

SAMPLE ANALYSES ppm/% LOG REMARKS DESCRIPTION No 12  $Z_n$ 716133 SAND 0 Far pale brown CALCRETE 35 36 F gr red brown CLAYEY SAND 37 10 SAND Ferricreted 38 39 white clay (who Feldsport) ogtz BEDROCK 30 40 < 4 41 12 6 40 Fe stained white clay agtz 18 < 1 16 42 44 1 -20 < 1 16 43 12 44 white clay o gtz with dissen. Them. atte magnetike 26 14 ~1 ſ 12 44 26 41 12 ا بم ? magne tike spothed GNEISS 270 10 41 8 760 12 1 -30 716148 10 14 510 <1 -40

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: ING RAND TR3 DRILLER: P NOTSCHKE

1:500

SCALE:

LOGGED BY : P BINKS DATE DRILLED: DRG/CODE No:

EXPLORATION COMPANY PTY, LTD. CARPENTARIA PROSPECT YAVINGE ROTARY BLAST DRILL HOLE LOG AIR

LOCATION O.8 km N Warram

6,322150N

034

HOLE Nº LEAG 30

HOLE CO-ORDINATES SSSSTOE (3771502 40m 7.0 ANALYSES ppm/% SAMPLE DC PTH REMARKS DESCRIPTION LOG · 19 Zn CALCRETE 716149 CLAYEY SAND orange brown 51 orange brown 52 SAND partly silcretal. 53 10 54 . White, silereted. 55 56 57 yellow cky afingral's minor frein BEDROLL 58 20 red brown cky minor yelkugree 5 yellow white chay om gratz. -30 y-grey brown a white clay a grey trace 2° pyrite 46 55 28 <1 .40

REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DATE DRILLED: 9/4/84 DRILLER: P NITSCHKE SCALE: 1:500 DRG/CODE No:

PROSPECT YANINEE CARPENIARIA EXPLORATION COMPANT PIT, LTD. ROTARY AIR BLAST DRILL HOLE LOG

LOCATION O.4 Em S Warramboo 6320970N

035

MULE IN KKHIS SI

AMPLE Nº				PPM		ULPTH MLTRLS	LOG			DE 5	CRIF	TION	,			R	EMARK	´5
16169	Cu	Pb	Zn	A.	Au		<u>₹</u> ‡‡;	SAND	•	Fgr				<del></del>	<del>; ;</del>	<del>                                     </del>	<del>, , , , , , , , , , , , , , , , , , , </del>	<del></del>
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OTHER DETAILS :

DRILLER: P NITSCHKE SCALE: 1:500

DATE DRILLED: 9/4/84 DRG/CODE No:

PROSPECT YAVINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. LOCATION O'S Km S Warramboo

HOLE Nº KERS 32 036

IPLE				ppm/	DEPTH METRES	LOG	DESCRIPTION	REMARKS
	٢]	Pb	Z,	· Ag	METRES		EUTY Soul A	<del></del>
185 86 87 86 89 90 91 92 93 94		•			- Jo - Jo 		SILTY SOIL a CALCRETE  CLAYEY SAND Orange brown a green.  If Silcrete  BEDROCK highly weathered white clay a f-m gr gtz mmor black  Iron spotting  If yellow a cream sericitic clay a gtz, gnessic	
92 93 94 95 96 97 98 99 200	85	14	8	, <1	-30	\{ \{ \}	grey brown sericitic clay  agtz much purple black  Iron spotting	
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REASON FOR HOLE:

DRILL TYPE: ING RAND TES LOGGED BY: G. HOOPER DRILLER: P. NITSCHKE DATE DRILLED: 9/4/84
SCALE: 1:500 DRE /CODE No.

PROSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. LOCATION 0.6 Km S Warram 600

307

HOLE Nº KRAB 33

SAND of ar pale brown  CRICRETE  CLAYEY SAND F or sed brown  CRICRETE  CLAYEY SAND F or sed brown  SAND F or ferricreted  II " silcreted.  OF OF OF OF OF OF OF OF OF OF OF OF OF O	HOLE CO		ANAL	YSE5	ppm,	1%	DC PTH	LOG	DESCRIPTION	REMARKS
CRICETE  CARRETTE  CLAYET SAND F of red brown  CLAYET SAND F of red brown  SAND F of Ferriere led  SAND F of Ferriere led  "" " citere led  "" citere led  "" " citere led  "" " citere led  "" " citere led  "" " citere led  "" " citere led  "" " citere led  "" " citere led  "" " citere led  "" citere	Nº	(u	Pb	Zn	Ag	Au	METRES	444:		, ALWANNS
1/5 1/2/6 20 8 10 <1 002 30	02 03 04 06 07 08 09 10 11 12	• •			ly.	:	- - -		CALCRETE  CLAYEY SAND F on red brown  SAND F or ferricaled.	
		20	8	10		0.02	-30	\ \ \ \ \	" grey green clay gtz sericite with Fan ? hem after magnetite ? banded magnetite bearing GNEISS	
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REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DRILLER: P NITSCHKE

DATE DRILLED: 9/4/84 DRG/CODE No:

OTHER DETAILS :

SCALE: 1:500

HOLE Nº KRAB 34 EXPLORATION COMPANY PTY, LTD. CARPENTARIA PRUSPECT YANINEE. DRILL HOLE LOG LOCATION 0.7 Km S WOTTHEN LOCATION BLAST AIR 6,320,670 N 138 HOLE CO-ORDINATES 5555506 6 3206 700 32m ANALYSES ppm/% REMARKS SAMPLE DESCRIPTION 10G No Pb CPICRETE 716217 CLAYEY SAND orange brown 18 19 20 FERRICRETE & SILCRETE 21 22 REBROCK highly wheel white-yellow clay 23 24 25 24 -20 grey green Felds, bio/cl/ GNEIS 27 28 1 Fresh play minor Fe staining 29 30 20-40% biolike /chlorike -716232 -30 55 40 14 <1 40

REASON FOR HOLE:

DRILLTYPE: ING RAMO TR3
DRILLER: P. NITSCHEE

LOGGED BY : G. HOOPER DATE DRILLED: 9/4/84

OTHER DETAILS:

SCALE: 1: 500

DRG / CODE No:

PROSPECT YANINET CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE Nº ARAB 35 LOCATION 0.8 Km S Warram 600

HOLE CU-ORDINATES 555540E 6320570V

T.D. 40m 039

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SAMPLE Nº				ppm	/%	DE PTH METRES	106	DESCRIPTION	REMARKS	1:
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_ 41 _ 42						<u> </u>		BEDROCK pale by limonite stained gtz		1
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REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MG RAMO TR3 LOGGED BY: P BINKS DRILLER: P NITSCHKE

DATE DRILLED: 10/4/84

1:500 SCALE: DRG/CODE No: PROSPECT YMANGE CARPENTARIA EXPLORATION COMPANY PTY, LTD.

ROTARY AIR BLAST DRILL HOLE LOG
LOCATION O.9 Km S Warrann Got

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HOLE Nº KRAB 36

E				p p m /	1%	DC PTH	LOG	DESCRIPTION	REMARKS	WATER
	u	Pb	Zn	·Ag		METRES	.,,,,,,,,			1
33								Solicitette CLAYEY SAND orange  SILCRETE Slighly Ferruginous BEDROCK Silicified cap on white siliceous wheel bedrock in highly weathered pake brown clay = 9tz in brown to yellow brown wheel Feldspar biol: GNEBS		
7	ا .					-30	1	niner hem staining	~	
8	18	6	46	</td <td></td> <td>F</td> <td><b>5 5</b></td> <td>miner hem steening</td> <td>,</td> <td></td>		F	<b>5 5</b>	miner hem steening	,	
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DATE DRILLED: 10/4/84 DRILLER: P. NITSCHEE SCALE: 1:500 DRG/CODE No:

PROSPECT YANNEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 10 Km S Wattam 500

555540K 6320320N 7 N 32.

7/1

HOLE Nº KIAB 37

IPLE				ppm/	%	DE PTH METRES	LOG	DESCRIPTION	REMARKS
0	Cu	Pb	Zn	. Ag		17113		SAND F go pate by	
269 70						}	Į.	CRICLETE  CLAYEY SAND F gr red brown	
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76							1	BEDROCK Cream brown cky ogtz	
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81						+	''	" creen home wheel	
82 83						<b>+</b> .	ی کی ا	" green brown whed biohihe GNEISS	
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REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DATE DRILLED: 10/4/84 DRILLER: P NITSCHKE DRG/CODE No: SCALE: 1:500

OTHER DETAILS :

PROSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 0.6 km SW Warran600

HOLE CU-OHDINATES 555000E 632/020N TO 40m

042

HOLE Nº KRAS 38

HOLE CO	·ORDII					-	T.O.	40m	V42	
SAMPLE Nº	Cu	PE	YSES Zn	ppm,	/% 	DEPTH METRES	LOG	DESCRIPTION	REMARKS	WATER
7/6285 - 86 - 87 - 88 - 99 - 91 - 92 - 93 - 94 - 95 - 96 - 97 - 98 - 99 - 300 - 2	/4	6	24	</td <td></td> <td>-10 -20</td> <td></td> <td>SOIL &amp; CALCRETE  CLAYEY SAND orange  SAND pale brown partly silicified.  SAND F gr white - pale brown  SILCRETE white  BEDROCK pale brown sil. gnessic rock  "Ferruga cil rock, pueple brown  minor yellow  "Whed gnessic rock yellow green  clay of gr g/z  "Wheel CNEISS purple brown  a minor yellow green  "grey white g/z felds GNEISS  Minor F qr 2° pyrite</td> <td></td> <td></td>		-10 -20		SOIL & CALCRETE  CLAYEY SAND orange  SAND pale brown partly silicified.  SAND F gr white - pale brown  SILCRETE white  BEDROCK pale brown sil. gnessic rock  "Ferruga cil rock, pueple brown  minor yellow  "Whed gnessic rock yellow green  clay of gr g/z  "Wheel CNEISS purple brown  a minor yellow green  "grey white g/z felds GNEISS  Minor F qr 2° pyrite		

REASON FOR HOLE:

DRILLER: P. NITSCHKE

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DATE DRILLED: 10/4/84

OTHER DETAILS :

SCALE: 1:500

DRG/CODE No:

PROSPECT YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 0.7 Em Sw Wattamboo

043

HOLE Nº KRAB 39

			ppm,		DE PTH METRES	LOG	DESCRIPTION	REMARKS
Cu	Pb	Zn	.Ag	ļ 	METHIS		SANDO F gr pale brown.	
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,		1	1		-		CLAYEY SAMS F 8T red brown.	
							SAND For red brown	,
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DATE DRILLED: 10/4/84 DRILLER: P. NITSCHKE DRG/CODE No: SCALE: 1:500

PROSPECT YOUNGE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

HOLE Nº KRAB 40

HOLE CO-DEDINATES 554860E 63 20900N

7.1 32m

SAMPLE Nº	G.	PL PL	Zn	PPm,		DE PTH METRES	LOG	DESCRIPTION REMARKS	WATER
7/6329 30 31 32 33 34 35 36 36						- 10		SHITY SOIL SHIDY SILT light brown  CLAYEY SAND orange  SAND orange Fericipeted.  BEBROCK brown. light brown Ferring  Silicified rock.	
38 39 40 41 42 43 716344	10	75	6	<1	007 007	-20 - -30	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	" Lighly weathered? GNEISS white clay a minor F-mgratz	
						-40 -			
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DRILLER: P NITSCHKE DATE DRILLED: 10/4/84 SCALE: 1:500 DRG/CODE No:

PROSPECT YAVIAGE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION OF KA SW WARRANGED

045

HOLE Nº KRAB 41

MPLE 1º				ppm/	/% T	DE PTH METRES	LOG	DESCRIPTION	REMARKS
504	Cu	PL	Zn	. Ag	ļ	M. 1415	 	SAND F gr pak brown	
567891011	:					- - - - 10		CLAYEY SAND For red brown  SAND For red brown  II For Ferricreted.  CLAY = SAND Silcreted. (top of bedrock)  BEDROCK (ream clay (wh feldspor)	1.
12 13 14						-20	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 g/2 WH ? GNETSS	<u>-</u>
15,16,17,18	• !	<u>.</u>				-30	<b>\$ \$ \$</b>	" pale her lin stormed "Had GNEISS.	
19 20 21 22				,		-30	) ; ) {	" wHeel GNEISS	
€23	10	18	16	<1		-40	\$ <sup>}</sup> \$		
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TRS LOGGED BY: P. BAKS DATE DRILLED: 11/4/84 DRILLER: P NITSCHKE 1:500 SCALE: DRG/CODE No:

PROSPECT YANNEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 0.9 Km Sw Werting 600

746

HOLE NO HEAB 42

O-ORDII	_		p p m,		DI PTH	T	000000000000000000000000000000000000000	B51/4545	T
Cu		7,	174	T	METRES	LOG	DESCRIPTION	REMARKS	1
!					_	<del>+++</del> +.	SILTY SOIL & Ingl LYDOWN CALCRETE	<del></del>	T
					}	-##	CLAYEY SIET orange brown		
		1	}		t				
	]				- 10	1	BEDROCK purplish pink a cream white chy		1
					<b>†</b>	` <b>{</b> `	of gratz minor Ferrug hanks 7 wheel garnets		1
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•					-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11 cream yellow- yellow clay & Fgrgtz	. *	
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36	20	90	<i>&lt;</i> /			1	" yellow green highly weathered		1
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REASON FOR HOLE:

OTHER DETAILS :

LOGGED BY : G. HOOVER DATE DRILLED: 11/4/84 DRILL TYPE: ING PAND TR3 DRILLER: P. MTSCHKE SCALE: 1:500 DRG/CODE No:

PROSPECT NANINEE CARPENIARIA EXPLORATION COMPANY PIT. LID.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 1.0 km Sw Warram 600 MULL IN AAMO TO

CLOSE TO DESCRIPTION MEMARY  WE CALCERTS  86  87  87  90  91  92  93  94  95  96  97  98  98  98  98  98  99  90  90  91  92  93  94  95  96  97  98  98  98  98  98  98  98  98  98	APLE		ANAL	YSE5	p p m	1%	DCPTH	100	DESCRIPTION	REMARKS
184 85 86 86 87 88 89 89 89 90 90 91 92 93 94 95 96 97 98 99 90 1   red white gneissic rock  1   white  1   orange  1   grey green biotile fells GNEISS  minor limonitic pateles.		Cu					METRIS			HEMARKS
95 96 97 98 99 1	85 86 87 88 89 90 91 92 93 94							* <sub>~</sub>	CLAYEY SAND orange	<b>)</b> .
	95 96 97 98 99 00 1 2						-3 <i>o</i>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	" white " orange " " grey green biohite Felds GNEISS	
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REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DATE DRILLED: 11/4/84 DRILLER: P. NITSCHKE OTHER DETAILS : SCALE: 1:500 DRG/CODE No:

PROSPECT YANNEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE Nº KRAB 44 ROTARY AIR BLAST DRILL HOLE LOG

C 320 6 80N HOLE CU-ORDINATES 5545606 6322-801

MPLE		ΔΝΔΙ	YSES	p p m	101	OL PTH	T.O. 1		748
MPLE Nº	Cu	PS	7515	PPM,		METRES	LOG	DESCRIPTION	REMARKS
3461		, 3		1.773	ł	<del>}</del> -	<del> -</del>	SANO & F or pak brown CALCRETE	
62	4		:		1	}	<u> </u>	CHICKETE	
63					-	Ì	· · · · · · · · ·	CLAYEY SAND For red brown	
64		]					1 1	BEDROCK red brown to mercon limonity stained clay (which felds) = 9 +2	. ,
65 66					ł	10	<b> </b> {	3.2 5 ( (27.0. 100-) /	•
67						}	<del>                                     </del>	11 grey to dark grey manganese o	
68 -					1	<b> </b>	[5] <sub>[5</sub> ]	Il grey to dark grey manganese o limonite stained wheel felds ogtz	
64	18	42	38	<1		1	[ , ] .	boxworks after pyrite or garnet	• ·
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REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DRILLER: P. NITSCHKE DATE DRILLED: 11/4/84 SCALE: 1:500 DRG/CODE No:

OTHER DETAILS:

HOLE NºKRAB 45 CARPENTARIA EXPLORATION COMPANY PTY. LTD. PROSPECT YANINEE ROTARY AIR BLAST DRILL HOLE LOG

OLF CO	0,10,,,					حدث سندسي		1 40 m	<u> </u>	Te
MPLE Nº	Cu			PPM/		DE PTH METRES	LOG	DESCRIPTION	REMARKS	4375%
6345	ш	7.5		13	1714	<del>                                      </del>	<del>#+</del> 4///	SAMS . F gr pale brown		†
46				}		<u> </u>		I CHLCRETE		
47 48		]				-		CLAYEY SAND F go red brown		1
44						}	15 .5	SEDROCK purple Stown Clay (when telespon)		1
50						-10	[, <sup>]</sup> ,	BEDROCK purple brown clay (when fethpar) gtz with when mica after 22m limonite stained	•	1
51		,	ar v		9.5		]	- n Hed GNEISS		
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REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DRILLER: P. NITSCHKE DATE DRILLED: 11/4/84

OTHER DETAILS : SCALE: DRG/CODE No: 1:500

PHOSPECT YMMEZE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 13 km Sw Warram Soo

HOLE Nº KRAB 46 

E			ppm/	1% DEPTH		DESCRIPTION	REMARKS
Cu	Pb	Zn	· Ag	MITRI	s		
:					<b>万型</b>	SILTY SOIL pale by  CLAYEY SAND orange brown  BEDROCK Lighty wheel pink red clay + far  ATZ	
	•			-10	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	white clay agtz	
				-20	5 1	" white clay agtz " red brown clay agtz  " white clay a f-m gr gtz, gnessic	
,   ,				-30	1 1	11 pink red clay • 9/2  11 brown clay f-mgr g/z	
					5 5	"  "  "  "  "  "  "  "  "  "  "  "  "	e was
† 18	) <u>µ</u>	100	<1	_40	5,5	? biotite (biotite GNEISS)	•
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DRILLER: P. NITSCHKE DATE DRILLED: 11/4/84 1:500 SCALE: DRG/CODE No:

PROSPECT YAMMEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE Nº KRAB 47

LOCATION 1-4 Km Sw Warrandon 1900.5000

6,320,5000

HOLE CO-ONDINATES 5543200 (3:0000) 7.0 40m

PLE		Ph	YSES Zn	Ay	Au	IX PTH MITHLS	LOG	DESCRIPTION	REMARKS
385	Cu	r 5	<u> </u>	145	Hu		<u> ا</u>	SAND for pale brown CALCRETE	
86 87		•				[	+++	CLAYEY SAND For red brown	:
88						<u> </u>		, ,	. ,
9						-10	15, 8	BEDROCK red by lim & hem stained clay	
7						<u> </u>	5	11 cream highly leached clay	
72 1 73						-	1	" cream highly teached clay (wheel felds.) 9tz will few ? hematike grains ofter magnetike	
4						-20	1 5 5	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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8				ł		}	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	" sed frown hem stained ?GNEISS	
$\infty$			• *		:	-30	1 1	" Cream to pale brown highly leached ? GNEISS	
1 2					<·01		[ ,	leacled ? GNEISS	
3					-1 -1		3 1	" Khaki wHed GNEISS will biotife	
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REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DATE DRILLED: 11/4/84 DRILLER: P NITSCHKE SCALE: 1:500 DRG/CODE No:

OTHER DETAILS :

HOLE Nº KRAB 48 CARPENTARIA EXPLORATION COMPANY PTY, LTD. PROSPECT YANINEE LOCATION 1-5 km Sw Warram Loc

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AMPLE Nº	Cu			ppm.		DE PTH METRES	LOG	DESCRIPTION	REMARKS
405	iu.	/ 6	24	17	1			SILTY SOIL pale br	
6 7						[	<i></i>	CLAYEY SAND Orange	
8 9		1						On any of Control Hall bedrock	
1		-				-10	5 5	BEDROCK · Ferrug sand / while bedrock.  " red brown ferrug.	
٠.				1			{ ' {		
2						· ·	1555		
†						_20	{	" highly whiled white cream cky (while felds) . F-m gr ghz	
					1	}	15,5	(wheel felds) + f-m gr gtz	
7						-			
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REASON FOR HOLE:

LOGGED BY : G. HOOPER DRILL TYPE: ING RAND TR3 DATE DRILLED: 11/4/84 DRILLER: P NITSCHLE

OTHER DETAILS : SCALE: 1:500 DRG/CODE No: PRUSPECT YANNEE LOCATION 1.6 km SW Warramboo DRILL HOLE LOG

CO-OHDINATES 554/60E 63203801

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HOLE CO	خيدندي			منحند	حسمون		TO	32m	ეგა
SAMPLE Nº				ppm,	/%	DE PTH METRES	LOG	DESCRIPTION	REMARKS
716425	Cu	PL	<u> </u>	· Ag	ļ		누누	SANDO f gr pale brown	
26								CALCRETE	
27 28						F		CLAYEY SAND For red brown	
- 28 29					] .	<b>-</b>		SAND For Ferricreted	
30				100		- <i>1</i> 0			
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33						ţ .	1,1	BEDROCK cream to pale by clay (wh felds)  qtz with dissem ? hem after  magnetike  7.11 Lie GNEISS	
34						_20	( )	magnetike	e, to in
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REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS

DATE DRILLED: 11/4/84 DRILLER: P. NITSCHKE SCALE:

1:500 DRG/CODE No: PHOSPECT YANTAEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. LOCATION 1.7 km SW WATTAMADO

054

HOLE Nº KRAR 50

SSUMMER lan

AMPLE Nº		and the second		ppm/		DE PTH MET RES	LOG	DESCRIPTION	REMARKS	WATER
	Cu	Pb	Zn	Aq		MITHIS	1	•		3
16441 42 43 44 45 46 47 48		•	-			- - - - - - -	学・サービー	SILTY SOIL & light brown  CALCETTE  CLAYEY SAND red brown  SAND F go red brown, Ferruginous  SILLRETE while  BEDROCK while - cream clay (wh Fells)  Fom go glz (whed GNERS)		
49 51 52 53 54 55 55 57 58						20 30	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11 pale brown clay ogtz 11 derk yellow ""		
58 59 16460		2/	6			<del>-</del> 	5 5	n yellow green whiled GNEIES.	•	
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REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DRILLER: P NITSCHKE DATE DRILLED: 11/4/84 DRG/CODE No: SCALE: 1:500

PROSPECT YATA EL CANPENIARIA EXPLORATION COMPANY PIT, LID.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION COREM WATER MODE MULE IN RUHS SI

HOLE CO-CHOINGTES 554660E 6321520N 70 40m

OLE CU-			_		 DC PTH	T		
AMPLE Nº	C.			ppm/	METRES	LOG	DESCRIPTION	REMARKS
16544 45 46 47 48 49 50 51	Cu	Pb	<i>L</i> n	. Aq	- 10		SAND . For pale be CALCRETE CLAYEY SAND For red brown BEDROCK red brown hema lim. stained clay (whiled felds) e g/z whiled 3 GMETS	
53 54 55 56 57 58 59 60					20 30	; ; ; ; ; ;	" Green brown whed ? GNESS  " green brown whed biotile GNESS	
62 65 63	70	<i>7</i> 2	110	<i>ċ1</i>	_40	5 ' 5 5	biotife GNESS	to acid
					-	1		
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					-   -   -			

REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY: PENES DRILLER: P NITSCHKE DATE DRILLED: 11/4/84

OTHER DETAILS: SCALE: 1:500 DRG/CODE No: PROSPECT YANNEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE Nº KEAB 52. ROTARY AIR BLAST DRILL HOLE LOG

HOLE CU-OHDINATES 5545605 63205200

TN 40m

256

	01.0				32052		<u> </u>	T.D 40m	056
SAMPLE Nº	Cu	PL	Zn	ppm,	/ % 	DE PTH METRES	LOG	DESCRIPTION	REMARKS
716564 65 66 67 68 69 70 71 72 73 74 75 76				-		- lo		SAND & f. gr pale brown CALCRETE CLAYEY SAND f. gr red brown BEDROCK creem to pale br clay a gtz II purple brown hem. stained wheel micaceous GNETSS	
77 78 79 80 81 82	110	55	130	<1		-30	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	" Khaki brawn whled brokke GNETS.	
		. "	<i>3</i>			-			
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RMO TR3 LOGGED BY: P BINKS DRILLER: P. AITSCHLE DATE DRILLED: 12/4/84 SCALE: 1:500 DRG/CODE No:

PROSPECT YHNINEE. TOLE IN MANO 33 LOCATION JOE W WASSAMED ROTARY AIR BLAST DRILL HOLE LOG

HOLE CO-DROINATESS446 & 632520N

7-1 4km

057

SAMPLE			YSE5	ppm	1%	DE PTH	LOG	DESCRIPTION	REMARKS
Nº	Cu	Pb	Zn	. Ag		METRES			
716584 85 86 87 88 89 90						- - - /0		SILTY SOIL  CLAYEY SAND light brown  SILCRETE & FERRICRETE red brown = white  BEDROCK Cream white & purplish clay &  For grape partly ferrug.	
92 93 94 95 96						20 	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	" purple brown clay a gtz partly foring. " white soricite /cky a gtz	
96 97 98 90 600						-30	\$ · \$	11 yellow brown limonitic clay & F-m gr gtz	
- 3 4 716606	/2	18	55	<1		_ <i>40</i> -	ے کہ کہ ا اس کہ کہ	" yellon green who biotike GNEISS	
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY: G. HOOPER DRILLER: PNITSCHKE

DATE DRILLED: 12/4/84

SCALE: 1:500 DRG / CODE No:

CARPENTARIA EXPLORATION COMPANY PTY, LTD. YANINEE PROSPECT LOCATION 1-12m W Warrandon

DRILL HOLE LOG

HOLE CU-OHDINATES 5543606 6321520~

058

HOLE Nº KRAB 54

T.D. 46m ANALYSES ppm/% SAMPLE REMARKS LOG DESCRIPTION No Pb Zn . Ag SAND 0 716607 444 F gr pale brown CALCRETE CLAYEY SAND For red brown 9 For Ferricreted. 10 SAND BEDROCK Ferricreted clay agtz

11 hem. stained clay (while fett)

11 cream to pale by wh ? GNEIS 11 -10 12 13 14 15 ıl -20 17 18 19 20 2/ -30 brown to red brown hem. stained 22 . WHed sericitic GNEISS 23 24 25 26 27 28 716630 green grey wheed biotike GNEIS 60 14 32 <1 50

REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY: P BINKS DRILLER: P NITSCHKE DATE DRILLED: 12/4/84 SCALE: 1:500 DRG/CODE No:

PHOSPECT YANNEE CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

DIE CO-OUDINATES 5542605 6321520A

059

HOLE Nº KRAB S5

SAMPLE NO.				ppm.		DE PTH METRES	LOG	DESCRIPTION	REMARKS
716631	Cu	Pb	Zn	Ag	ļ	F		SILTY SOIL & CAICRETE Pink brown	
32 33 34 35 36	:					- - - <i>10</i>	+++	SILCRETE & FERRICRETE brown - whole	
37 38 39 40	•					- - 20		BEDROCK white clay & Fingraph with brown to yellow green white clay a gtz, ? gnessic	
41 42 43 44 45	,					-	{	" white clay egtz. " yellow brown clay egtz	
46 47 48 49 6650					  -  -  -	-30	111	doctor ? hintele schist	
6650	20	16	120	<1		40 - -	~	il dark green ? bighte SCHIST minor For 9 72.	
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REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: ING RAND TR3 LOGGED BY : G. HOOPER DRILLER: PMTSCHKE DATE DRILLED: 12/4/84 DRG/CODE No: SCALE: 1:500

MULE IN KKHB 36 YAVINEE PROSPECT ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 1.3 Km W Warrambox 6321520N 554.160E

7.D. 40m

000

HOLE CO-ORDINATES 554/60 63215202 SAMPLE ANALYSES ppm/% REMARKS LOG DESCRIPTION Nº METRES Cu Pb Zn Aq 716651 F g pale brown SAND 4 زبيب CALCRETE 52 Far red brown *5*3 CLAYEY SAND 54 55 brown, Ferricietal sikechel 56 SAND 57 58 59 60 cream to pale be clay Cuther BEDROCK 61 Felds) gtz ospricité 62 (wHod ? GNEISS) 63 64 64 65 67 67 68 716670 grey green wheel biolike GNERS 24 22 38 **<1** -40

REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY : P BALKS DATE DRILLED: 12/4/84 DRILLER: P NOTSCHKÉ

SCALE: 1:500 DRG/CODE No: PHOSPECT YANINEE CARPENIARIA EXPLORATION COMPANY PIT. LID.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 1-4 km W Warram 600 MULE IN AMAS SI

HOLE CO-OHDINATES SSYCROE 6321520N

TA 400

.061

SAMPLE				ppm,	1%	DE PTH	100	T.D. 40m  DESCRIPTION	REMARKS	
No	Cu	Pb	Zn	·Ag		METRES		<u>l</u>		ا
716671 72 73 74 76 77 78 81 82 83 84 85 86 87 88 89	/30	60	24	<1		-10 -20		CLAYEY SAND orange brown  SAND F qu orange  FERLICRETE *SILCRETE brown  BEDROCK Siliceous, purple browlike  "White clay *g/z  " purple *white clay mmor g/z  " pale brown, red br *white clay minor g/z  " queresse looking sericite * Forg/z  " grey green & dark grey  biotike ?GNEISS  minor pink sed fe stained g/z		

REASON FOR HOLE:

DRILL TYPE: ING RAND TES DRILLER: P NITSCHKE

LOGGED BY : G. HOOPER DATE DRILLED: 12/4/84

OTHER DETAILS :

SCALE: 1:500

DRG/CODE No:

YAMINEE LOCATION IS En W Warran Soo HOLE CO-ORDINATES 5539 for 6321520N T.D. 40 m REMARKS ANALYSES ppm/% SAMPLE DESCRIPTION LOG No Pb Zn . Aq Cu SAND O CALCRETE F gr pale brown 716691 <del>+++</del>-92 F gr red brown CLAYEY SAND 93 94 95 F gr red brown with clay bands. 10 SAND 96 97 98 99 F gr pale brown to brown silcreted a Ferricreted 700 -20 ) 2 3456 SAND ackay F go yellow bo dork br. grey green clay (WH Fellspr) BEDROCK 7 8 716710 minor 2º pyrite 26 6 22 <1 40

REASON FOR HOLE

OTHER DETAILS:

DRILL TYPE: INC RAND TR3 LOGGED BY: P BINKS

DRILLER: P. WITSCHKE DATE DRILLED: 13/4/84

SCALE: 1:500 DRG/CODE No:

PROSPECT MALINEE CARPENIARIA EXPLORATION COMPANY PILLED.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 1.6 to W Warrandoo

063

SAMPLE Nº	Al	VALYSE.	5 ppm,	/%	DE PTH METRES	LOG	DESCRIPTION	REMARKS
716711 12 13 14 15 16 17 18 19 20 21 22 23 24 716725					- 10 - 20		CLAYEY SAND orange brown  SAND Figs brown ferricreted in part  SILCRETE  CLAY grey green a pink sed minn g/z  M grey green a yellow  SAND F-m gr well sounded g/z  lim yellow to red.  If gr red brown ferricreted  black hem cement  HOLE ARANDONED.	
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	N FOR				-		DRILL TYPE: ING RMD TE3 1066	ED BY : G. HOOPER

DRILLER: P. MISCHKE

DATE DRILLED: 14/4/84

OTHER DETAILS :

SCALE: 1: 500 DRG/CODE No:

PROSPICT YMARE CARPENTARIA EXPLORATION COMPANY PTY. LTD. LOCATION 1-8 Km W WATER SOO

HOLE Nº FRAB 60

064

SOURCETE  TO CORRECTE  CLAYEY SAND For red brown  CLAYEY SAND For latown  SAND For latown  For red brown Ferricalled.  The for cream to pink sikestel.  To great brown to dock brown  The formation to dock brown  The form	· T	<u> </u>	A/v	AL YS	ES	p p m <sub>/</sub>	/%	DEPTH METRES	LOG	DESCRIPTION	REMARKS	WATER
38 39 740  HOLE ARANDONED - no return domp sand.					-					CARLETTE  CLAYEY SAND For rect brown  SAND For brown  " For red brown Ferricated."  " For cream to pink silcreted."		
								- 30 - 30 -				
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REASON FOR HOLE:

DRILLTYPE: ING RAND TR3 LOGGED BY: P BINKS DATE DRILLED: 14/4/84 DRILLER: P. NOSCHKE 7:500 DRG/CODE No: SCALE:

OTHER DETAILS :

PROSPECT > CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE Nº KRAB 61 LOCATION ZOFA & Warramboo

HOLE CO-ORDINATES \$ \$ 3270E 6321550N

-TA 28m

305

LE	AN	AL YSES	ppm,	1%	DE PTH			365
	1			1	METRES	LOG	DESCRIPTION	REMARKS
+/			1	1		444	SILTY SOIL	· · · · · · · · · · · · · · · · · · ·
2				1		+++	CALCRETE	
3					-	<b>→</b> ***.	CLAYEY SAND orange	
					10		" orange brown " grey green	1,
			1				3 7 6	
'					-		SAND For, ferricreld.	
7					-		" For white, silcreted	
7			1	}	- <i>20</i>		" Far orange red	4
					- 1		" Far yellow br " Far black br " Far black a minor bl copyeys"	•
2					-		" for black br	
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REASON FOR HOLE:

OTHER DETAILS

DRILL TYPE: ING RAND TR3 LOGGED BY: G. HOOPER DRILLER: P NITSCHKE SCALE: 1:500

DATE DRILLED: 14/4/64 DRG/CODE No:

PHOSPECT YIMINGE CARPENIARIA EXPLURACION COMPANT PIT. LIU. MULE IV KKAS UZ ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 25 Km W Warram boo

5570mg /371750A

266

DRG/CODE No:

Nº.		ANAL	YSES	ppm,	/%	DC PTH ME TRES	LOG			DESCR	IPTION	<i>'</i>	<u> </u>	REM	ARKS	
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766						-			Y SAMS					-		
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SCALE:

1:500

YANINEE CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE Nº YEAR 63 PROSPECT LOCATION 4-3 Km MV NATIONALOS

OPPINATES 5517/0E 63736402

2011

HMPLL	AN	LYSES	ppm/	1% 0	(РТН	100	DESCRIPTION	OFMACKE
Nº Nº			<u> I</u>		TRES	LOG	DESCRIPTION	REMARKS
6767 68 69 70 71 72 73 74 75 76 778				- - - - - - -	lo		SAND For calcarous  CLAYEY SAND orange by  SAND For red brown partly ferniciated  SILCRETE  SAND For bright yellor	
76 778				-3	20 20		II For pale brown II For brown gray SILTYCLAY black miner silly same! HOLE ABANDONED	
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REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY: G- HOOPER DRILLER: P NITSCHKE DATE DRILLED: 14/4/84 SCALE: 1:500 DRG / CODE No:

PROSPECT Y/1N/12 CARPENTARIA EXPLORATION COMPANY PTY. LTD.

ROTARY AIR BLAST DRILL HOLE LOG

LOCATION 42 Km No Warrandoo

330

HOLE Nº KRAB 64

OLE CO-	<del></del>	ANALY	YSES F	p p m /	1%	DE PTH METRES	Line	DESCRIPTION	REMARKS	
16779 40 81 82								CALCRETE  CLAYEY SAND brown.  FERRICRETE		
83 16-784				1		-		FERRICRETE SAND orange by with ferricrete banks HOLE ABANDONED - No return, damp.		ļ
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REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY: G. HOOPER
DRILLER: P NITSCHKE DATE DRILLED: 14/4/44

SCALE: 1:500

DRG/CODE No:

PROSPECT YMMINET CARPENTARIA EXPLORATION COMPANY PTY. LTD. ROTARY AIR BLAST DRILL HOLE LOG

554600E 1320710 N

069

HOLE Nº KRAB 65

106 18 2- 24   100 21 300   100 18   10	Nº Nº				ppm,	/%	DE PTH METRES	LOG	DESCRIPTION	REMARKS
15   16   17   18   17   18   19   10   10   10   10   10   10   10		Cu	Pb	2.	1/9	ļ	METHES	)   13 1 e.c.		
16   17   18   19   19   10   10   10   10   10   10						ł	-	- <del></del>	. CALCRETE	,
17   18   18   19   10   1   10   10   10   10   10			Ì	ŀ			t		CLAYEY SAND F gr red br	
18 19 20 21 22 23 24 25 26 75 20 46 <1  30  \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			ļ							
20 21 22 23 24 25 26 75 20 46 <1 30 31 32 33 34 130 12 85 <1 40  11  11  12  12  13  14  15  16  17  18  18  18  18  18  18  18  18  18					1		-10	5 5	BEDROCK purple hem stained gtz a	
20 21 22 23 24 25 26 26 27 28 30 31 32 33 34 130 12 85 21 40 21 40 21 40 21 40 21 40 21 40 21 40 22 32 40 40 40 40 40 40 40 40 40 40 40 40 40		,			1		ŀ	1,5,	Sericite wheel ! GNEISS	•
22 23 24 25 26 26 27 26 27 26 30 31 31 32 33 34 130 12 85 21 40 31 31 32 34 35 36 37 75 24 140 21 -50 15 HOLE STOPPED - In Lard g/z, Geld, ?angl. ? banded Grigiss	20		•			ļ	t	[3]		
23 24 25 26 75 20 46      " brown to grey lim a manganese standed with ? Chess  1							į	5'5		•
24 25 26 27 28 29 30 31 31 32 33 34 130 12 85 21  40  1				ŀ	l		-20	. 5	Il brown lim shained wheel soveres	<i>*</i>
26 75 20 46 <1 27 26 29 30 31 32 33 34 130 12 85 <1 35 36 37 3838 75 24 140 <1  -80 31 40 40 40 40 40 40 40 40 40 40 40 40 40				ļ			}	15.	" brown to over lim a manganese	A.
26 75 20 46 <1 27 26 29 30 31 32 33 34 130 12 85 <1 35 36 37 3838 75 24 140 <1 50 15 16 17 1838 75 24 140 <1 180	25			1			· ·	13,	stained with ? Gress	
26 29 30 31 32 33 34 130 12 85 <-1  -40	. 26	75	20	46	<1		<b>†</b>	]'‹'		•
29 39 31 32 33 34 130 12 85 <							30	1,3		
30 31 32 33 34 35 36 37 5838 75 24 140 <1 -50   1 HOLE STOPPED - in Lard g/z, Gelf, ?angl 7 banded GRESS								5	brown a purple lim a hem	
31 32 33 34 35 36 37 38 38 75 24 140 21 -50 51 51 61 61 61 61 61 61 61 61 61 6	27						}	5 5	stained whood ? GNEISS	
32 33 34 35 36 37 38 37 38 37 58 38 75 24 140 21 -50 51 51 600 11 11 11 11 11 11 11 11 11							}	[ ]		
35 36 37 75 24 140 <1 -50   1   green from LHd? GNESS  HOLE STOPPED ~ in Lard g/z, Celt, ?anal ? banded GNESS						<b>.</b>	40	18,5		a .
37 1838 75 24 140 <1 -50 11 HOLE STOPPED - in hard g/z, Geld, ?ampl ? banded GREISS	33				] .			[2]		
37 1838 75 24 140 <1 -50 11 HOLE STOPPED - in hard g/z, Geld, ?angl ? banded GREISS	34 25	130	12	85	< /		-	l '		
37 1838 75 24 140 <1 -50 11 HOLE STOPPED - in hard g/z, Geld, ?angl ? banded GREISS	36			,				· ·	is green from what? Gress	
HOLE STOPPED - in hard glz, Geld, ?anpl ? banded GRESS	37						1			
( banded GAGES	838	75	24	140	<1		-30	535		a.e.
{ banded GNGSS		. 1							HOLE STOPPED - in hard gtz, Gelt, ampl	
							}		? banded GNGTSS	
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REASON FOR HOLE:

DRILL TYPE: ING RAND TR3 LOGGED BY : P BINKS DRILLER: P NITSCHKE DATE DRILLED: 15/4/84 SCALE: 1:500 DRG / CODE No:

OTHER DETAILS :

CARPENTARIA EXPLORATION COMPANY PTY. LTD. PROSPECT YAMEE LOCATION 1-1 Km SW MONTANGOO AIR BLAST DRILL HOLE LOG

HOLE Nº KRAR 66

070

HOLE CO-ORDINATES 55452015 6320650N

7.0. 56m

SAMPLE ANALYSES ppm/% DE PTH LOG DESCRIPTION MUTRES REMARKS Pb  $Z_n$ · Ag 716785 SAND O CALCRETE <del>+++</del> 86 44 87 CLAYEY SAND Orange. ઢઢ BEDDOCK highly wheel greaser rock pale red by -pinh br 89 5 10 90 91 92 93 94 95 -20 .5 97 98 99 800 grey queissic rock with pateless of mangan 75 60 /30 ~/ ( 5 -30 I brown - gray brown mic? magnetite S GNETS 1 1 { 23456769 40 85 10 </ occassional manganiferous bands 1 -40 ſ grey brown - green 5 MIC. magnetile , , 5 GNEISS 5 Ø 10 purple by magnetite GNETS // 5 716812 (-mg g/z + magnetike (30%) 34 14 85 <1 . bo

REASON FOR HOLE:

OTHER DETAILS :

DRILL TYPE: ING RAND TR3 LOGGED BY: G. HODDRER DRILLER: P. NITSCHKE DATE DRILLED: 15/4/84 SCALE: 1:500 DRG / CODE No:

### LOGISTICS REPORT

### AIRBORNE ELECTROMAGNETIC AND MAGNETIC SURVEY

BARRINGER "INPUT" SYSTEM

OF THE

KYANCUTTA AREA

SOUTH AUSTRALIA

FOR

CARPENTARIA EXPLORATION COMPANY PTY. LIMITED

BY

GEOTERREX PTY. LIMITED



### TABLE OF CONTENTS

		Page
ı.	INTRODUCTION	1
II.	PERSONNEL	2
III.	DATA PRESENTATION	3
IV.	INTERPRETATION OF SURVEY DATA	
	AND RECOMMENDATIONS	4

APPENDIX A - INPUT Equipment and Procedures

APPENDIX B - Instrument Specifications and Calibrations

APPENDIX C - ANALOGUE RECORDS

APPENDIX D - FLICHT LOGS

#### I. INTRODUCTION

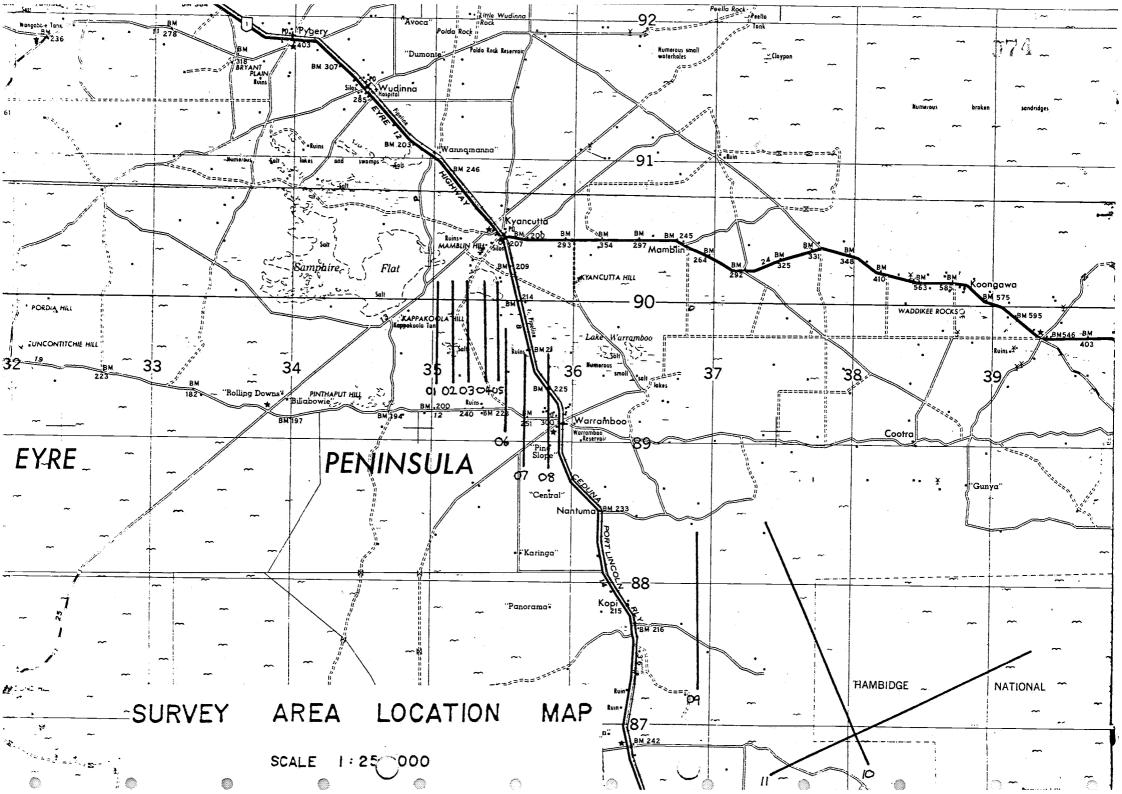
On December 1, 1983, Geoterrex Pty. Limited flew a combined electromagnetic and magnetic survey over the Kyancutta region of South Australia on behalf of Carpentaria Exploration Company Pty. Limited. The base for the duration of the survey was Whyalla.

Eleven profiles were flown for a total of approximately 100 kms.

The project was conducted with a Super Canso PBY-5A under registration VH-EXG, which is operated by E.C. Sleigh Aviation for Geoterrex Pty. Limited and was equipped with:-

- a Barringer Mark V 12 channel EM system
- a Geometrics G803 nuclear precession magnetometer
- a Geoterrex MADACS digital acquisition system
- a Sperry RT220 radar altimeter
- a 50 Hz monitor
- a Geocam 705 35mm continuous strip tracking camera
- a Honeywell 1912 visicorder.

Navigation was by visual means from high level black and white RC9 photographs, at 1:40,000. The aircraft was operated at a mean terrain clearance of 120 metres.



### II. PERSONNEL

The following Geoterrex personnel anticipated in the field phase of the survey:-

Pilot J. Edwards
Co-pilot T. McKenzie
Aircraft mechanic W. Mitchell
Electronics technician B. Woolfrey
Data Compiler C. Worsley

The project was supervised by Mr. G. Butt and Mr. G. Nader of Geoterrex Pty. Limited in consultation with Mr. N. Sheard of Carpentaria Exploration Company Pty. Limited.

#### III. DATA PRESENTATION

The original visicorder records of the raw INPUT, altitude and magnetic data are presented bound in line number order. All calibration data is included and a copy of the analogue format is shown in Figure 2 of Appendix A.

The one roll of negative 35mm continuous strip tracking film is delivered and appropriately labelled.

The 1:40,000 aerial photography bearing all of the recovered points, along with the tracking film is provided for accurate location of any followup investigation.

The flight log which contains all relevant information regarding the collection of geophysical data is also presented.

Interpretation overlays to the 1:40,000 Government photography.

### IV. INTERPRETATION OF THE SURVEY DATA AND RECOMMENDATIONS

From the INPUT data acquired over the Kyancutta area, it is considered that within this area, airborne electromagnetic prospecting would not be a suitable technique in the direct search for massive sulphides. The eleven INPUT profiles flown, show that the area is very conductive and in most cases the INPUT response can be modelled to fit a homogeneous half space. The high conductivity which in places is less than 0.5 (ohmetres), is most likely due to the high level of salt content within the overlying sediments.

Three INPUT anomalies have been selected for consideration as possible bedrock conductors. Two of the anomalies occur on line 008.1N at fiducials 528030 and 528480. At both these locations the INPUT signature shows a marked increase in conductivity, whereby the fast time constant channels indicates that the anomaly at fiducial 528030 is narrow and sharp, particularly on the early channels. The anomaly at fiducial 528480 is somewhat broader in width but does show an apparent association to a 200 nT magnetic high.

The third selected anomaly occurs on line 009.1S at fiducial 532980. At this location, the INPUT response is very narrow (as indicated by the fast time constant channels) and coincides with the northern flank of a 400 nT magnetic high. This INPUT anomaly is possibly situated at a geological contact which is reflected in the INPUT data by a decrease in the early channel amplitudes from north to south across the anomalous zone.

Within the normal interpretation guidelines of INPUT data, all three selected anomalies would have a low priority rating. However, if the location of these anomalies occur within a geologically prospective area where no cultural source is evident, then followup is recommended with emphasis on geochemical sampling.

Powerline interference as indicated by the 50 Hz monitor is prominent throughout most of the area, however this external noise source is only weakly reflected in the INPUT data.

 $C_{i}$ 

It should be borne out that even though the test area is very conductive, the INPUT system can be useful as a mapping technique. This is best illustrated on profiles 001.1 to 008.1 where conductive trends have been delineated. These trends may correlate to weathered lithological units or alternatively represent variations in the conductivity—thickness product of the overburden.

In the latter case, if the conductivity is generally uniform throughout the area, then it is possible to indirectly map sedimentary channels by determining changes in the overburden thickness. This geophysical appraisal may be significant if mineralization is expected to occur within such channels. Geoterrex has an automatic interpretation routine which can quantitatively evaluate and fit the INPUT data to a Half Space, thick sheet and thin sheet model.

In conclusion, the test area is not considered favourable to electromagnetic prospecting for the direct search of massive sulphides, especially if such prospective targets occur at depth. The very high conductivity of the surface layers would most likely mask any potential bedrock conductor within this region unless it occurred very near to surface.

The use of INPUT for indirect mapping of tertiary channels has good potential in this area.

Respectfully submitted,
GEOTERREX PTY. LIMITED

G. L. Nade

G. NADER
GEOPHYSICIST

#### APPENDIX A

### INPUT EQUIPMENT AND PROCEDURES

### 1. BARRINGER INPUT SYSTEM

### a) General:

The INPUT (Induced Pulse Transient) method is based upon the study of the decay of secondary electromagnetic fields created in the ground by short pulses generated from an aircraft. The time-varying characteristics of the decay curve are analysed and interpreted in terms of information concerning the conductivity characteristics of the terrain.

The principle of separation in time between the production of the primary field and the detection of the measured secondary signal gives rise to an excellent signal-to-noise ratio and an increased depth of penetration compared to conventional continuous wave electromagnetic systems. It also makes the INPUT system relatively independent of air turbulence.

At a normal survey altitude of 120 metres above terrain, the typical effective depth penetration is estimated at about 180 metres below surface, depending on the conductivity contrast between the conductive body and surrounding rocks, the size and

attitude of the conductor and the presence or lack of conductive overburden. In optimum conditions a penetration of 210 metres subsurface can be achieved.

One of the major advantages of the INPUT method lies in good differentiation between flat-flying surface conductors and bedrock conductors so that the latter can be detected even under a relatively thick cover. Typical uses involve the search for sedimentary sulphides in thick basins and the search for graphitic lithologies under younger cover.

However, the application of the airborne INPUT electromagnetic method is limited to the solution of problems that are characterized by a reasonable resistivity contrast. The method is not considered to be applicable to the direct search for disseminated mineralization, except where a resistivity contrast exists.

#### b) Equipment:

The INPUT system was developed by Barringer Research Limited of Toronto, Canada.

The transmitted primary field is discontinuous in nature (Fig. 1A) with each pulse lasting 1000 micro-seconds; the pulse repetition rate is 288 per second.

The electromagnetic pulses are created by means of powerful electrical pulses fed into a 3-turn shielded transmitting loop surrounding the survey aircraft and fixed to the nose and tail of the fuselage and to the wing tips.

The secondary field reception is made by means of a receiving coil wound on a ferrite rod and mounted in a "bird" towed behind the aeroplane on a 140 metre co-axial cable. The axis of the pick-up coil is horizontal and parallel to the flight direction and a Faraday shield is used to reduce noise levels. Periods of 2400 microseconds between successive primary pulses (Fig. 1B) are used for detecting the secondary field and the transient voltage (Fig. 1C) thus produced corresponds in time to the decay of the eddy currents in the ground.

The analysis of the bird signal is made in the INPUT receiver by sampling the decay curve at 12 points, or gates, the centre and width of which have a fixed relationship with respect to time zero ( $t_0$ ) corresponding to the termination of the pulses. The centres of the 12 sampling gates are set at a mean delay of 300, 400, 500, 600, 700, 800, 950, 1100, 1300, 1500, 1800 and 2100 microseconds after time zero (Fig. 1D).

The signals received at each sampling gate are processed in two multi-channel receivers to give one set of six and one set of twelve continuously varying analogue voltages. Each trace represents the coherent integration of one channel of the transient sample, the time constant of integration being variable. Presently, one set of twelve channels is recorded at a time constant of 2.6 seconds (Standard Resolution Channels, SRC), the other set of six at a time constant of 0.6 seconds (High Resolution Channels, HRC).

This integration delay plus the time separation between the receiving bird and tracking camera installed in the aircraft introduces a delay which has to be taken into consideration and corrected prior to correlating the electromagnetic data with the other simultaneously recorded data. This delay is approximately 4 seconds for the normal time constant and 2 seconds for the fast time constant.

# c) <u>Compensation Procedure</u>

During primary field transmission eddy currents are induced in the aircraft frame as well as in conductive ground. The airframe eddy currents produce a secondary

field which needs to be cancelled out in order to measure the ground-related effects. To compensate for this effect a special device is used which feeds into each channel of the INPUT receiver a signal equal in amplitude and waveform but opposite in polarity to the signal induced by the airframe eddy current. The compensation signal is derived from the voltage induced in the receiving coil by the primary field; this voltage is constantly proportional to the inverse cube of the distance between the bird and the aircraft. Thus, swinging of the bird and changes of coupling are automatically corrected. The compensation adjustment is a simple procedure carried out during flight at a terrain clearance of 600 metres to eliminate the interference of ground conductors.

### d) Time Sharing

In order to operate both the INPUT system and the proton magnetometer system simultaneously, the INPUT transmitter is switched off each second for a time period long-enough to allow for a noise free magnet-ometer reading. The affect of this switching can be seen as a 1 Hertz ripple on the HRC INPUT channels.

### II. MAGNETOMETER

The magnetometer is a Geometrics G-803 nuclear precession unit especially adapted to operate in conjunction with the INPUT equipment. Readings are taken every 1.0 second with a sensitivity of plus or minus 1 nanotesla and recorded at a full scale of 5 inches for 200 nanoteslas. The coarse trace is recorded at a full scale of 5 inches for 1,000 nanoteslas. The sensing head is mounted at the end of a 3 metre stinger, on the tail of the PBY aircraft.

### III. SPECTROMETER (Optional)

A Nuclear Data 256 channel spectrometer is used. Its input is taken from the photomultiplier tubes attached to either 16 or 33 litres of NaI detectors, through an Ortec summing amplifier. Separate amplification is available for each individual detector to allow correct photomultiplier output voltage matching. The detectors are mounted in insulated containers and maintained at a constant temperature above the ambient temperature. The analogue voltage outputs from the photomultiplier tubes, which represent the gamma ray spectrum, are fed to the spectrometer (ADC) and converted into digital signals. These digital signals are then processed by the Madacs acquisition system. The acquisition system also

measures "live-time" which is the total time per sample period in which the ADC is processing incoming analogue signals.

The equivalent energy values for the various channel positions are noted in Appendix  $B_{\bullet}$  (No spectrometer data was acquired.)

For calibration purposes software routines are employed which allow:

- calculation and adjustment of both thorium and cesium window positions as a channel number. This channel number is comparable with the expected peak channel location. This check is accurate to .01 of a channel window width (0.12 KeV).
  - The use of both thorium and cesium peaks ensures the spread of the 256 channels is linear.
- display of the thorium or cesium photopeak on the oscilloscope or on the analogue chart, in order to allow calculation of system resolution. These peaks can be plotted for individual crystals or for the entire crystal array.
- automatic calculation of the various window responses to either a uranium or thorium source. The back- ground values are automatically subtracted from the data recorded in the presence of either source and results are displayed on the television monitor.

They are then recorded on the flight log by the operator.

memory storage of spectral data. This data can be plotted at any stage during a flight or at the end of flight, even after the system has been powered down.

A software facility is also provided to enable correction for compton scattering effects on the analogue data (not the digital data).

### IV. TRACKING CAMERA

The tracking camera is a 35mm continuous strip camera equipped with a wide angle lens. The 35mm film is synchronized with the geophysical record by means of fiducial marks printed every 2.0 seconds. These time readings are not from an incrementing counter, they are read from digital information provided by the MADACS system.

### V. ALTIMETER

A Sperry radar altimeter is used. This instrument has an accuracy of  $\pm$  2.5%. Data is recorded in units of feet.

### VI. Hz MONITOR

A Hz monitor tuned to the local domestic power distribution frequency, is employed to assist in the detection of powerlines and their resultant anomalies.

### VII. MADACS DIGITAL ACQUISITION SYSTEM

The MADACS is a computer based software system using an Interdata processor, model 6/16 with 32k memory. This computer is linked with a Digi-Data, model 1600 magnetic tape drive with a true read after write feature which allows checking of the recording process as many times as the particular application permits. The checking procedure includes elimination of errors due to bad tape spots. Use of multiple buffers permits recording and processing data simultaneously with acquisition of new data, with no resulting dead time.

The system uses a Cybernex TV monitor to display acquired data and operator messages and is fully interactive with a Cybernex alpha numeric keyboard which can be used remotely for special installations.

The key feature of this system is that all the data collecting, verifying, buffering and recording is software-controlled and thus may be economically

altered to fit almost any requirements. Many critical parameters are automatically monitored during flight, with visual and aural alarms provided.

Survey parameters are displayed during flight in the same units as the basic sensor, making operator comparisons simple. A suite of programs is provided for checking and trouble-shooting the hardware.

The MADACS is used to control and command the operation of all three geophysical systems (INPUT, magnetometer and spectrometer) as well as ancillary equipment such as the camera, altimeter, tape drive, analogue chart recorders and sometimes electronic navigation systems. The basis is a precision clock recording time to 0.1 seconds. Time is digitally recorded in seconds after midnight, so that a six figure number such as 360000 corresponds to a time of ten a.m. Fiducials are generated on digital tape, camera and analogue chart at two second intervals. The fiducial numbers do not increment by units; they are in fact calculated from the time by the computer. Using this method, any data are uniquely defined by their flight number and their This system thus does not require digital recording of line numbers, part numbers or direction, thus avoiding a source of digital recording errors.

INPUT and altitude data are digitally recorded five times each second. Either SRC or HRC data can be recorded on digital tape, but not both. 12 channels are recorded plus transmitter current and altitude. Digital INPUT data can be positive or negative depending on the zero level voltage dictated by the compensation circuitry. The output voltages of the INPUT receiver are converted to digital units by analogue-to-digital converters (ADCs) and it is here that gains are adjusted to ensure that in conductive areas large anomaly amplitudes (large output voltages) can be kept within the dynamic range of the ADC's.

Magnetic data are recorded once per second and to an accuracy of 1nT. However the software allocates two decimal places to these readings to allow for future replacement of the G803 with a more sensitive instrument.

Radiometric data is accumulated over one second periods. Channels 1 through to 255 are recorded between thresholds set according to Appendix B. Channel 0 records counts in a higher MeV range which corresponds to cosmic gamma radiation. The counts accumulated within certain energy windows, corresponding to those radioactive isotopes of most interest, are calculated from Channels 0 to 255 by the computer and recorded separately each second. These windows are those commonly used for thorium, uranium, potassium, total count and cosmic, as

well as an additional uranium window termed auxiliary uranium.

Spaces are left in the format for frame number (if a frame camera is used) and for navigation information (if an electronic navigation system is used).

Manual information such as start time and flight number are keyed in each morning at the start of the flight.

The MADACS system is provided with 12 digital-toanalogue converters (DAC's) to provide outputs to the analogue recording units. The DAC's can be individually subjected to a software routine which checks that their response to a complete range of digital inputs is linear.

### VIII. DIGITAL RECORDING

600 or 1200 foot tapes are written in IBM compatible binary with full parity, cyclic redundancy and long-itudinal check\_characters. Read-after-write checking ensures data is correctly recorded. The recording density is 800 b.p.i. and the recording format is described in Appendix B.

### IX. ANALOGUE RECORDING

The MADACS system controls a read-after-write facility whereby most of the analogue channels are read after the data are recorded onto digital tape. Altitude, radiometric and magnetic data are programmed for automatic zero calibration at the start of each flight line. •

### a) <u>Honeywell Visicorder</u>

This is an optical galvanometer recorder used to record INPUT, magnetic and Hz monitor data. An example of its analogue output is displayed in Figure 2.

The data traces, in order from the top of the chart, are:

- 50 Hz monitor.
- 12 SRC INPUT channels.
- altimeter (read-after-write).
- total magnetic field (2000nT FSD) (read-after-write).
- total magnetic field (200nT FSD) (read-after-write).
- six HRC INPUT channels (read-after-write). (Pairs of channels have been summed.)

The fiducial system is used to generate vertical "event" lines on the charts. Lines every 10 seconds are dual, and the dual lines every 50 seconds are labelled with their appropriate time value. Time increases from left to right.

The SRC INPUT data deflect downwards for positive anomalies.

The HRC INPUT and magnetic data deflects upwards for positive anomalies.

During calibration procedures, a test signal of known strength is used to generate from the INPUT receivers an analogue response of known amplitude on each channel. Generally one of two standard sets of amplifications is used, depending whether the survey is to be flown in a generally conductive or generally resistive area. The actual gains used are noted in Appendix B.

## b) Mars 6 Recorder (Optional).

Radiometric, altitude and magnetic data are recorded on this 6 - channel, heat pen recorder. Figure 3 shows the usual arrangement of channels on this recorder. Provision is made in the software for full scale values to be changed for each channel, depending on activity in the area to be surveyed. Time increases from right to left and is indicated by an event mark every 10 seconds. These event marks are annotated at regular intervals with their appropriate time values.

Thorium, uranium, potassium and total count values

all increase upwards as do the terrain clearance and Magnetic data increase upwards.

### X. PROCEDURES

## a) Field Operations:

The flight line spacing is normally in the range of 200 metres to 1 kilometre. During survey flights, the altitude of the aircraft is maintained at approximately 120 metres above the ground with the bird flying about 40 metres above the ground.

The heading of the aircraft is such that two adjacent lines are normally flown in opposite directions., Visual navigation is based on airphoto mosaics or in some cases on topographic maps of suitable scale.

During surveys the calibration of the altimeter is checked by flying straight and level over the runway at a barometric altitude AGL of 120 metres. The compensation adjustment is checked during ferry from the base to the survey area.

### b) Calibration

Before each flight the gains and zero levels for each INPUT channel are checked and adjusted if necessary. This is carried out at an altitude of 600 metres, away from ground effects. These items are again monitored

during each flight and at the end of each flight. The information is recorded on digital tape and analogue chart. If the survey area is resistive, the zero levels are best determined from data recorded over the resistive regions at normal survey altitude. While at 600 metre altitude the compensation procedure is followed to ensure effects of airframe transients are cancelled. Any adjustments are made prior to zero level monitoring since compensation adjustments affect zero level voltages.

All checks and adjustments are performed at high altitude where they can be clearly monitored and recorded for subsequent digital processing.

If radiometric data is being collected a test line may be required before and after each flight. Back-ground gamma radiation levels are monitored and recorded at high altitude during the INPUT calibration procedures. Spectrum positioning checks and source checks are performed before and after each flight.

### c) Compilation

At the end of each flight, all records and films are developed, edited and all synchronized fiducial marks are checked. Then, the actual flight path recovery is made by picking visible marks common to both 35mm

film and photo mosaics.

Identified points with their time value are plotted on the mosaic. Then, the electromagnetic anomalies are transferred from the records onto a mosaic overlay by interpolation according to their own fiducial number.

The position of the INPUT anomalies must be corrected to take into account the separation between the bird and the aircraft as well as the delay introduced in the integration circuitry. This offset, or lag, is plotted towards the smaller fiducial numbers (to the left on the record). It varies, depending whether the SRC or HRC data is used.

The INPUT anomalies are represented on a map by means of symbols that condense the most significant characteristics:

- i) the location of the centre and half-peak width of the electromagnetic anomaly.
- ii) the number of INPUT channels affected by a noticeable deflection.
- iii) an estimate of the CTP and its match to a
   vertical half plane, horizontal thin sheet
   or half space model.
- iv) the peak amplitudes of the fourth and eleventh channels in ppm.
- v) the altitudes at which the anomalies were recorded

- vi) the amplitude of any magnetic features which coincide with INPUT anomalies;
- vii) associated response on the Hertz monitor.

The only subjective elements introduced by this processing are in the decision as to whether a deflection corresponds to a genuine anomaly or to a noise source (electrostatic atmospheric discharge, compensation noise, etc.) and in the correlation of the anomalies from line to line to delineate a conductive zone.

To aid in this correlation process various computer products can be utilized. These are profile maps or contour maps of one or more channels, multiplots or printouts showing calculated parameters such as decay time constant or half-space model correlation. These latter parameters can also be contoured or plotted as profile maps.

# INPUT SIGNAL

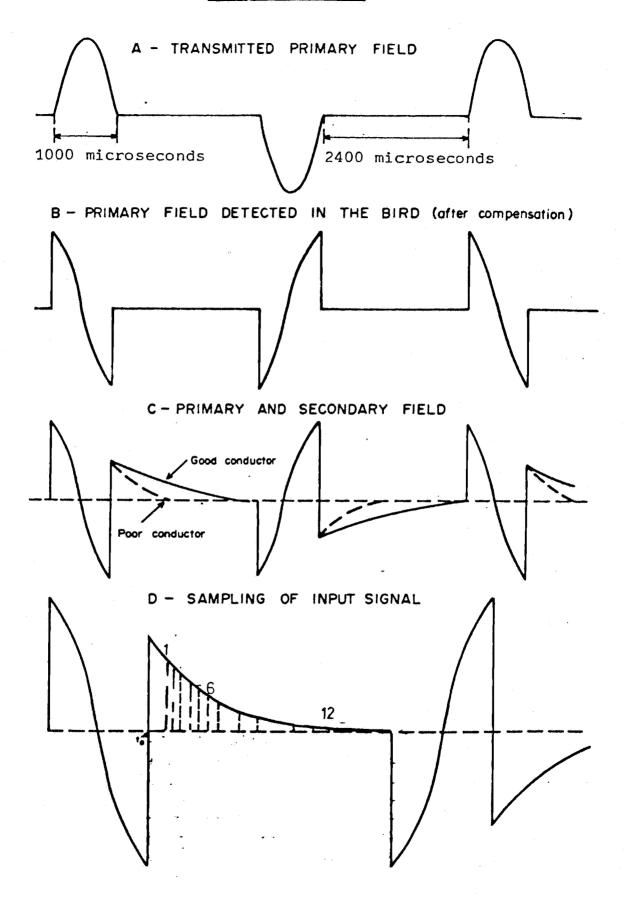
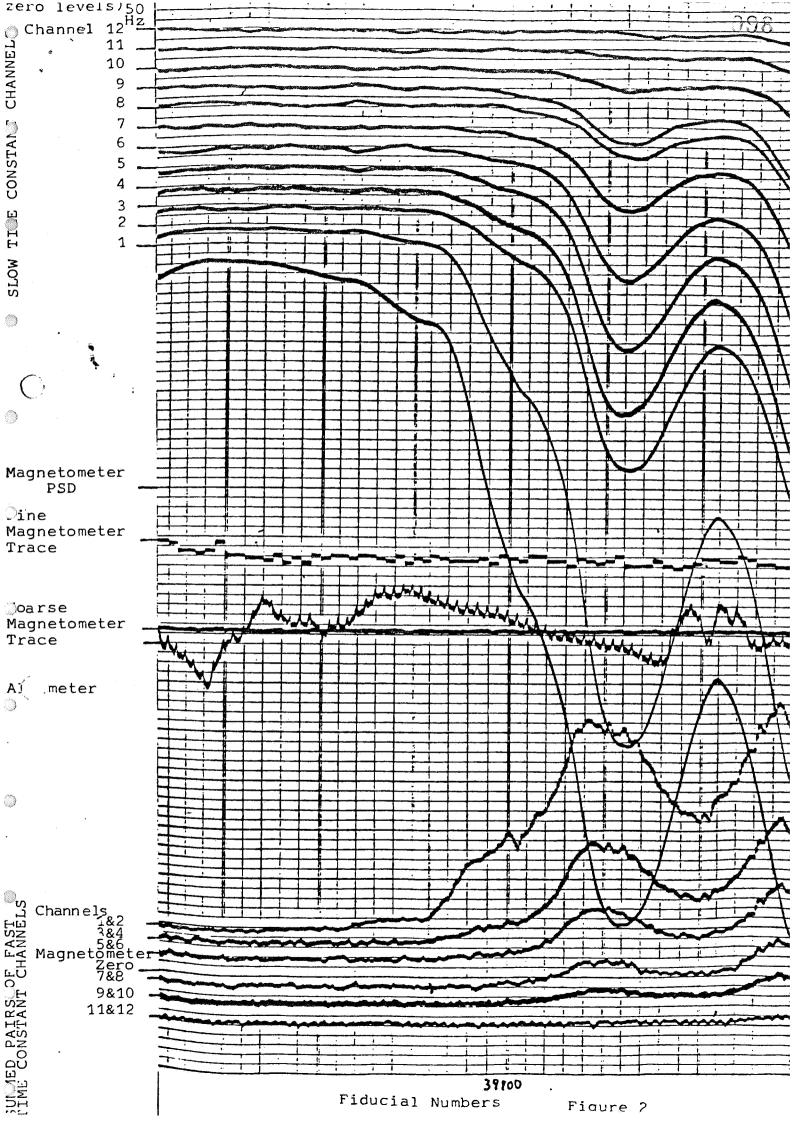


FIGURE I.





### INSTRUMENT SPECIFICATIONS AND CALIBRATIONS

### INPUT MARK V-12

Transmitter height above ground level (agl) 120 metres Receiver height (a.g.l.) 40 metres Transmitter Receiver Separation 107 metres

Transmitter Half sine wave current pulse

Repetition rate 288 pulses per second

Pulse width 1.0 millisecond

### Receiver

			•
Channel No.	Channel Centre	Channel Width	Approximate Settings
			Sensitivity (or gair.)
1	300	200	2 mV = 1.3" chart deflection
2	400	200	1.7"
3	500	200	1.7"
4	600	200	2.0"
5	700	200	2.1"
6	800	200	2.1"
7	950	300	2.2"
8	1100	400	2.6"
9	1300	400	3.0"
10	1500	600	2.7"
.11	1800	600	3.2"
12	2100	600	3.6"

All times are in microseconds after transmitter turn off.

Primary field signal measured at the receiver coil in normal configuration 0.9 volts =

 $1 \times 10^6$  parts per million =  $\frac{1}{2}$  peak to peak primary field signal measured at the receiver in normal configuration.

100 digital units = 1" chart deflection.

Synchronisation lag: Slow time constant - 4.0 seconds (for vertical conductors)

Fast time constant - 2.0 seconds (for vertical conductors)

#### MAGNETOMETER

Geometrics G803 Proton Precession Sensor Height Stinger Mounted Sample Interval =

120 metres

1.0 second

1.0 nT Sensitivity = Full scale chart deflection = 200 nT (fine scale) 2000 nT (coarse scale)

#### ALTIMETER 3.

Sperry RT 220 radar altimeter

Sample interval = 0.2 seconds

+/- 1.5% (+/- 2 metres at 120 metres) Accuracy

Analogue chart Scale = 1" per 30 metres

#### ANALOGUE RECORDER

Honeywell Visicorder

50 Hz monitor Top

12 slow time constant INPUT traces (positive down)

Terrain clearance (positive down)

2 Magnetometer traces (positive up)

6 summed pairs of fast time constant INPUT traces

(positive up)

Fiducial numbers (Realtime, seconds after midnight) Bottom

6" per minute. Chart speed

The tape structure used on this survey is set to record INPUT, magnetic and radiometric data.

The following is the tape description for a single physical block:

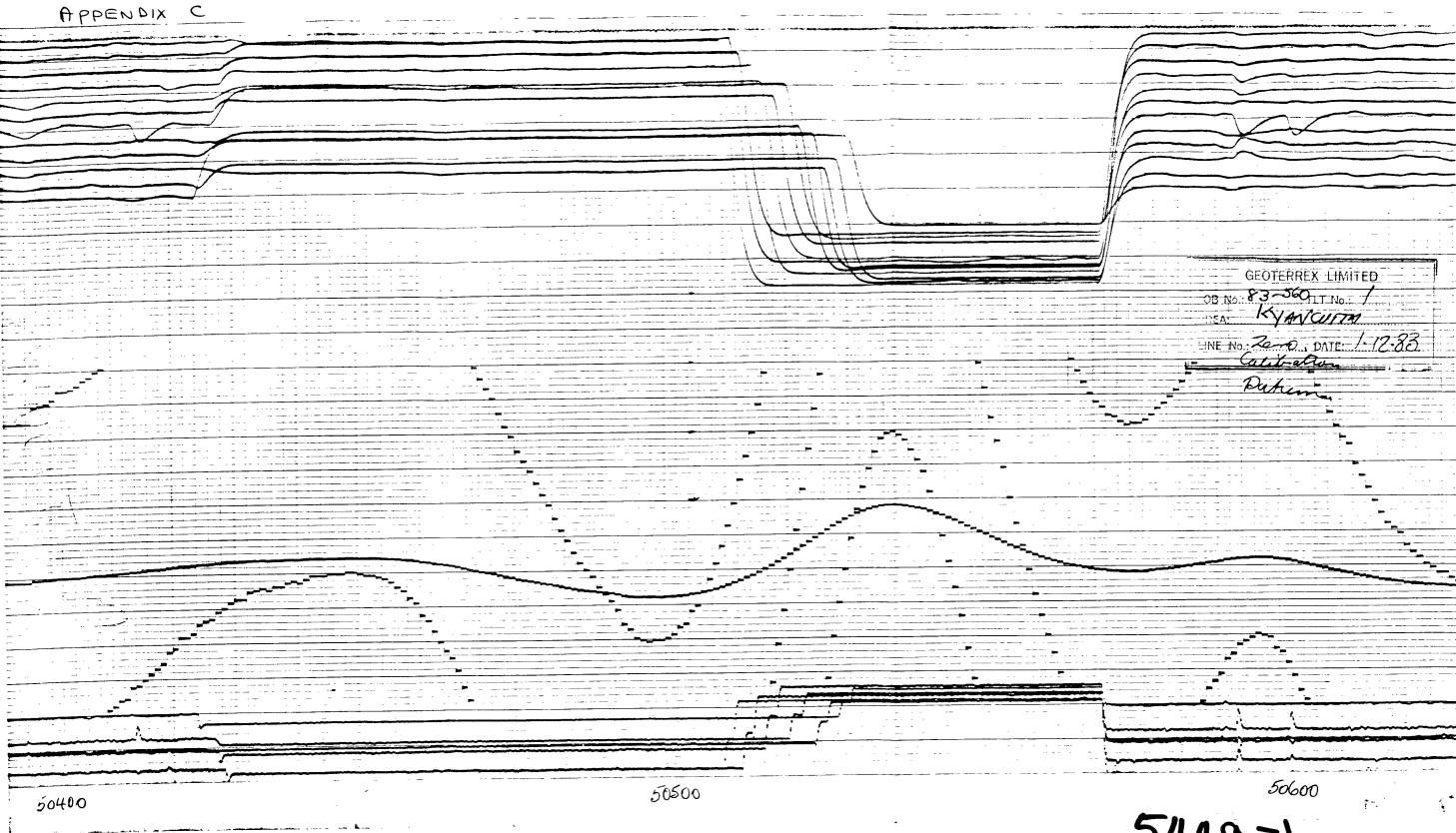
Byte Position	Number of Bytes	Description
1-4	4	Block Number
5-6		Flight Number
7-8	2	Spare halfword
9–10	2	9
11-12	2 2 2 2	<b>91</b>
13-16		Magnetometer (0.01 nT)
17-18	2	(Thorium Count)
19-20	$\bar{\mathbf{z}}$	(Uranium Count)
21-22	4 2 2 2	(Auxillary Uranium Count)
23-24	2	(Potassium Count)
25-26	2 2	(Total Count)
27–28	2	(Cosmic Count)
29-30	2	(Live Time (milliseconds))
31-40	10	Input Channel 1 @ T9,
		.7, .5, .3, .1 secs.
41-50	10	Input Channel 2
51-60	10	и и 3
61-70	10	11 4
71-80	10	" " <u>.</u> 5
81-90	10	6
91-100	10	.n .n 7
101-110	10	n n 8
111-120	10	" " 9
121-130	10	" " 10
131-140	10	" " 11
141-150	10	·· 12
151-160	10	" " 13
161-170	10	и и 14
171-180	10	" " 15
181-190	10	Altimeter @ T9, .7,
		.5, .3, .1 seconds
191-194	4	Time at end of sample
195–196	2	Fiducial number
197–198	2	(Doppler track or heading
199-318	120	Radiometric channels 0-59
	•	2 bytes per channel
319-514	196	Radiometric channels
		60-255 - 1 byte per
		channel
515-516	2	(Doppler along distance)
517-518	2	(Doppler cross distance)

- \* INPUT channels 13-15 are 50 Hz, loop current and primary Field.
- Unused fields are set to zero
- \* Positions shown in parenthesis were not used for this job.

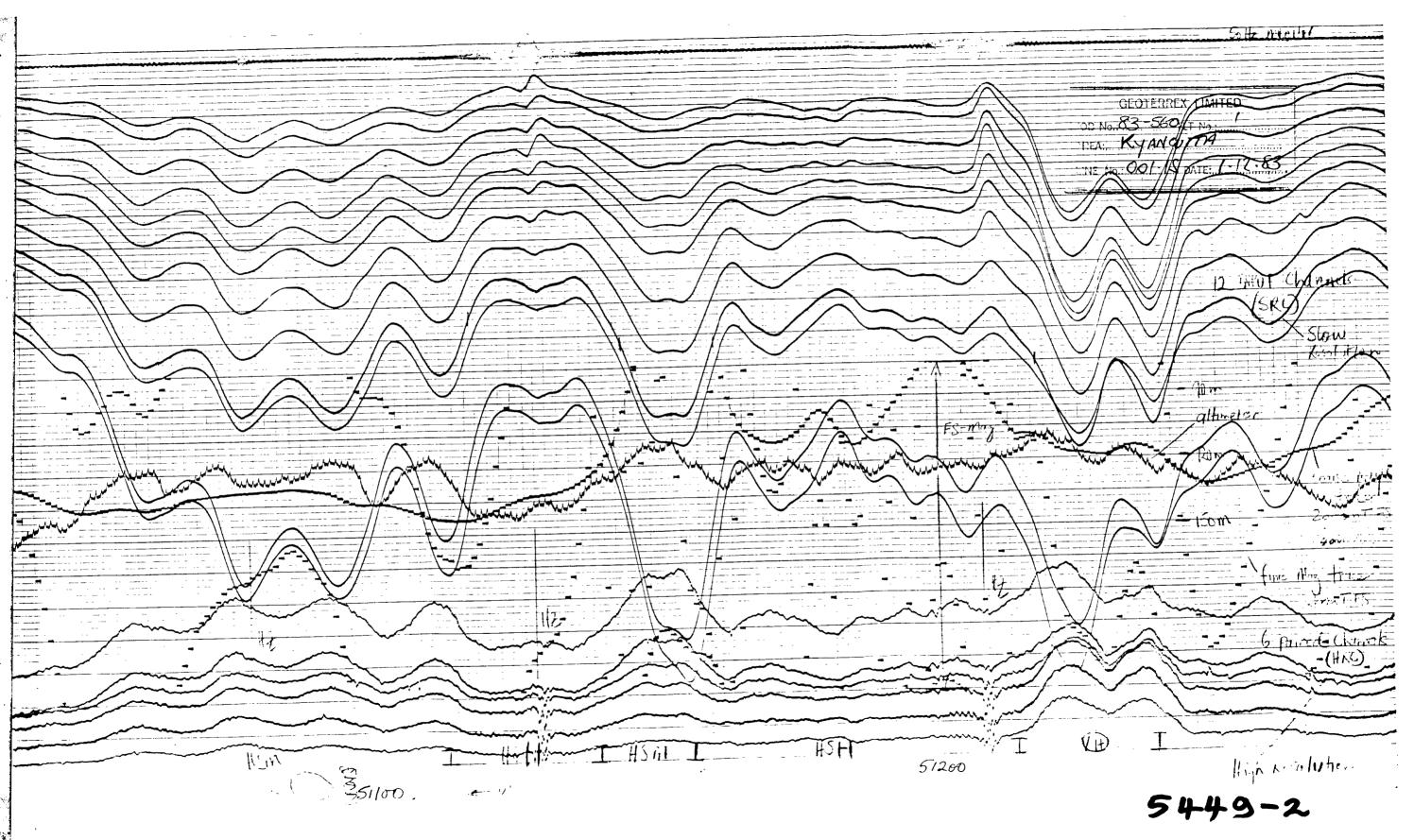
TAPE DENSITY - 9 track, 800 bpi

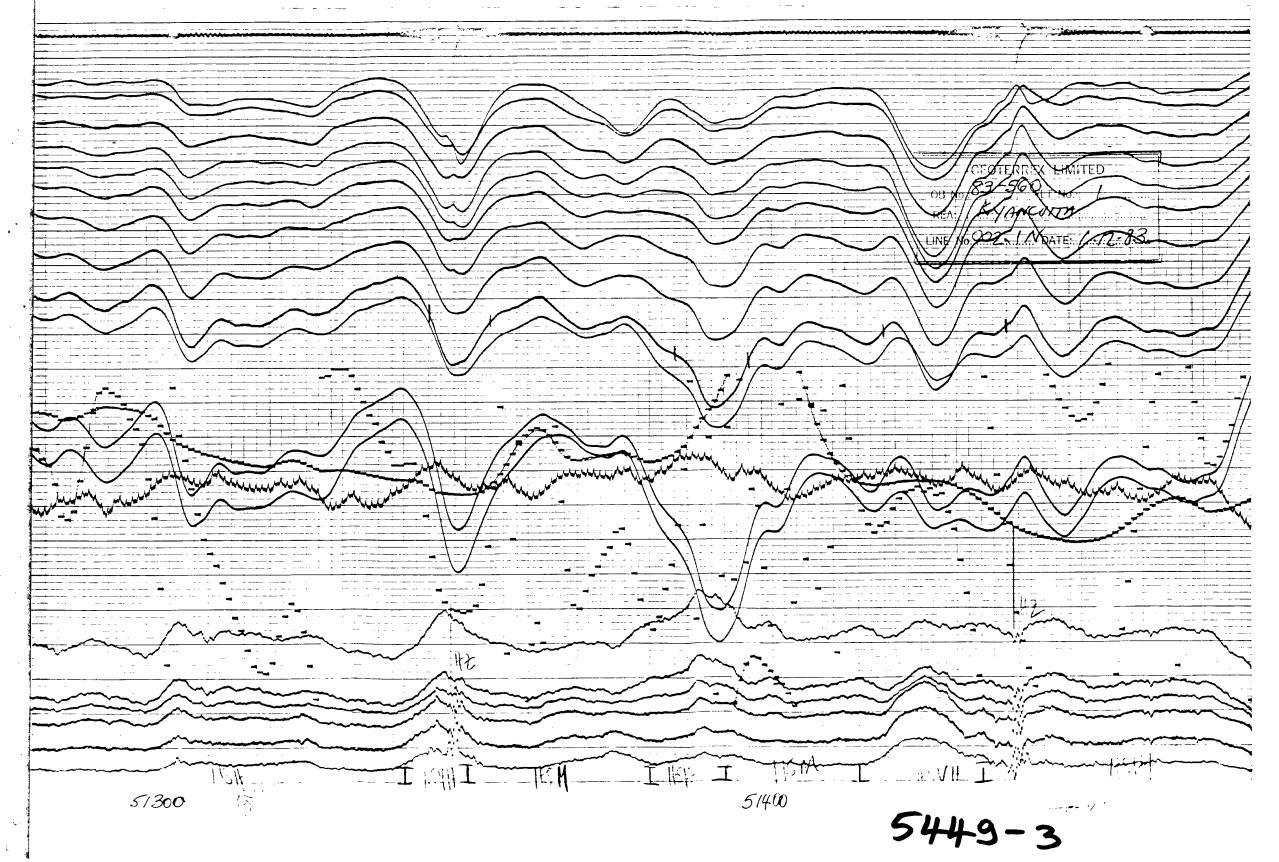
BLOCK SIZE - 518 bytes

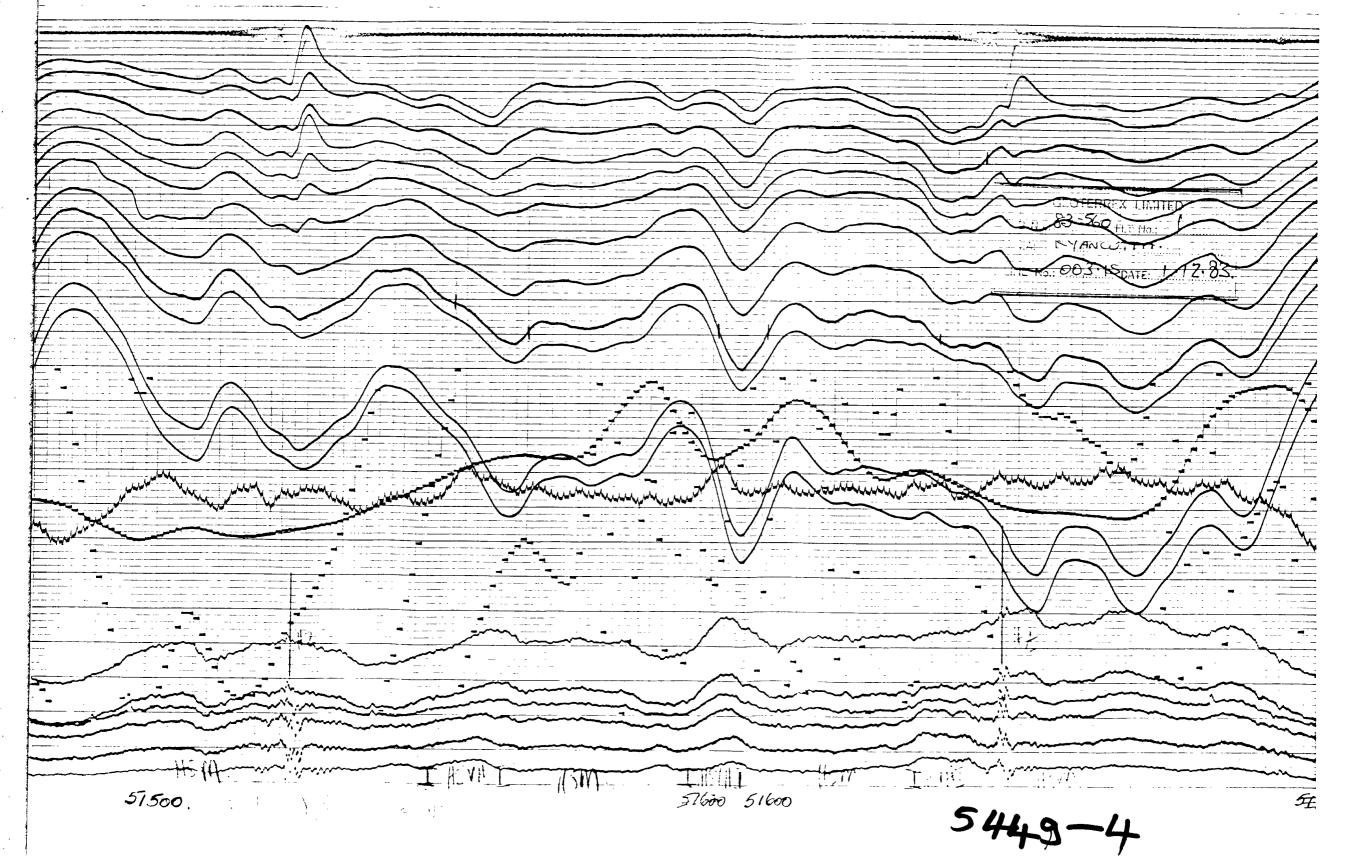
RECORDING MODE- binary (IBM compatible)

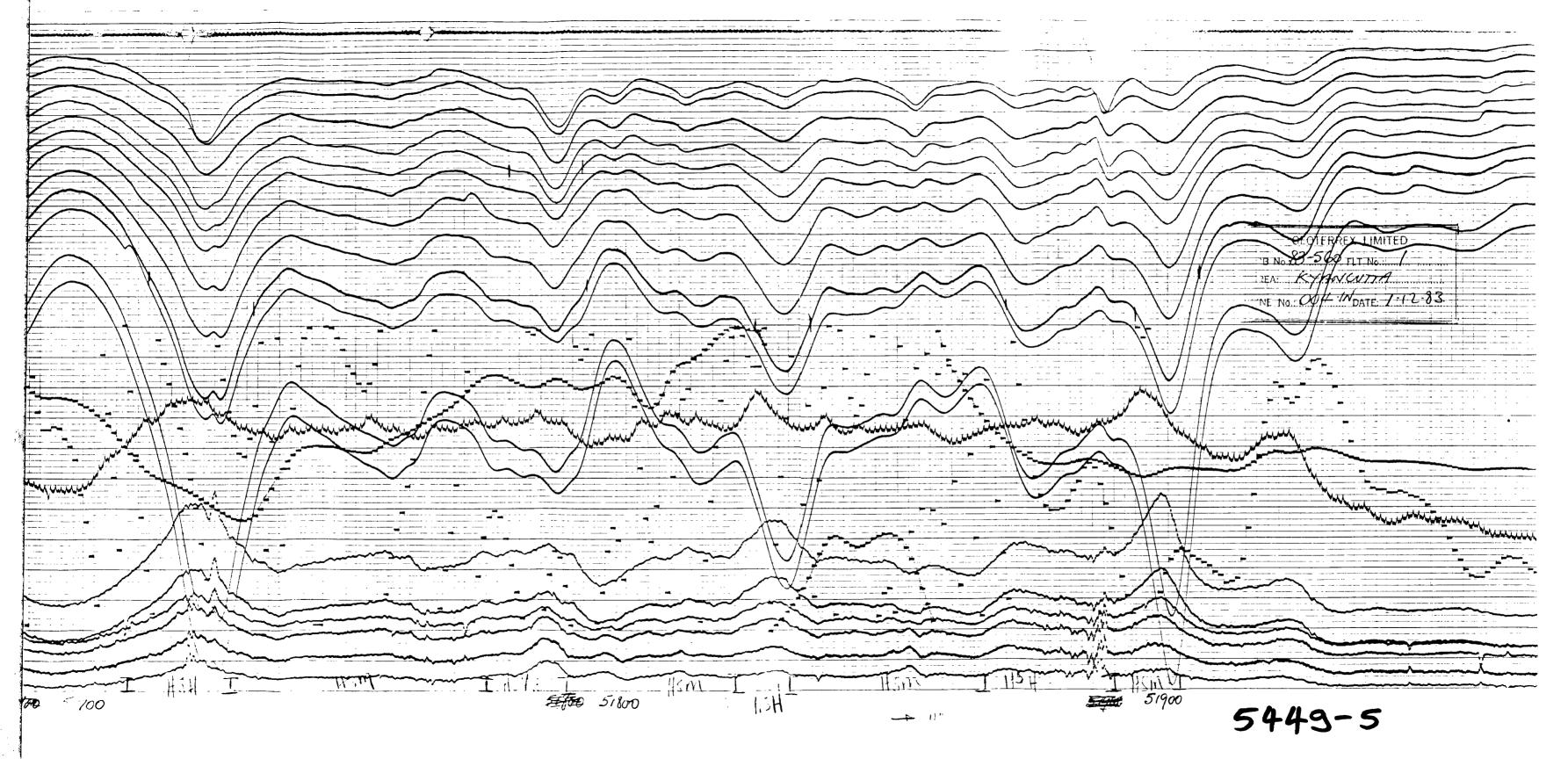


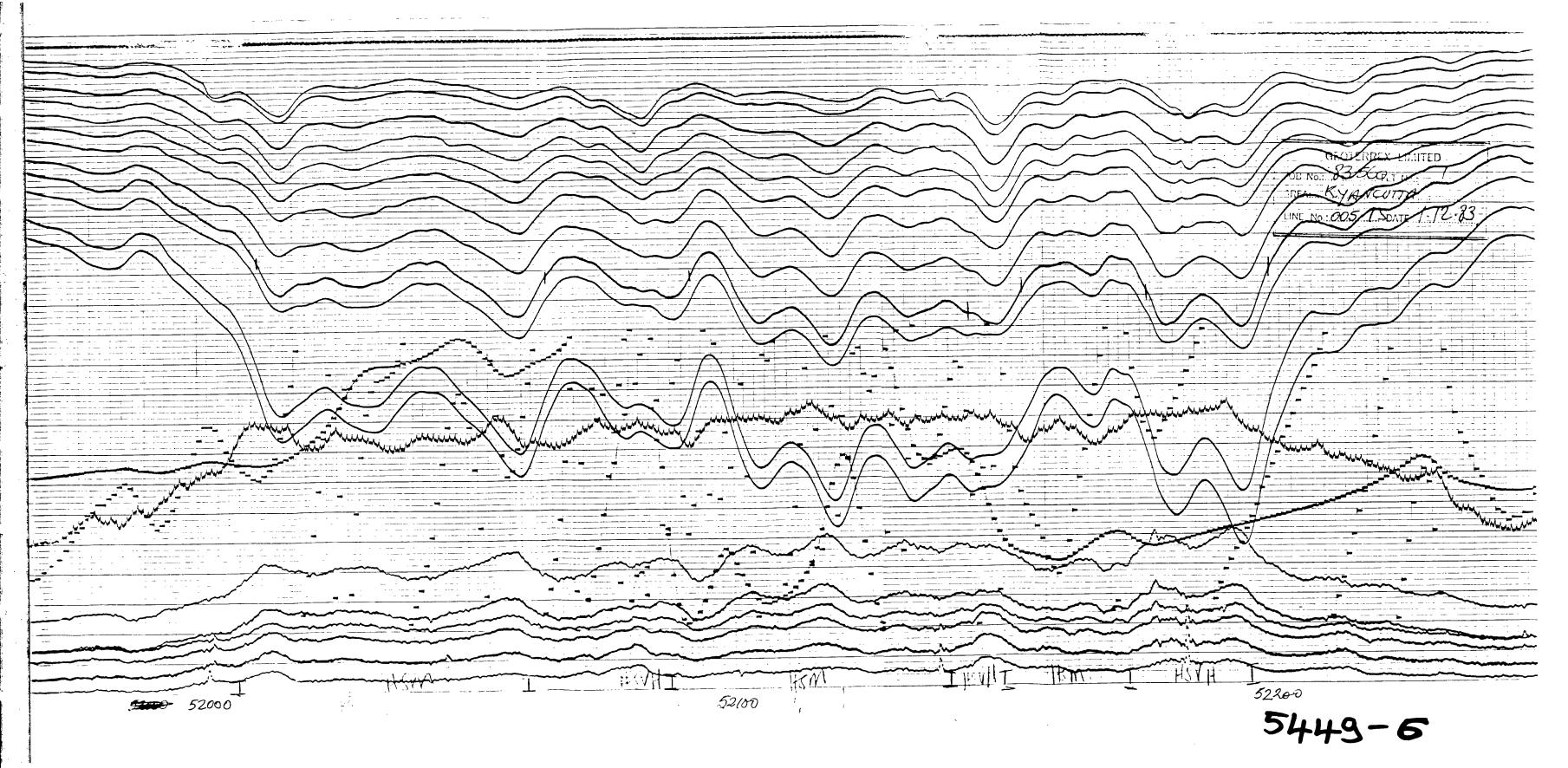
5449-1

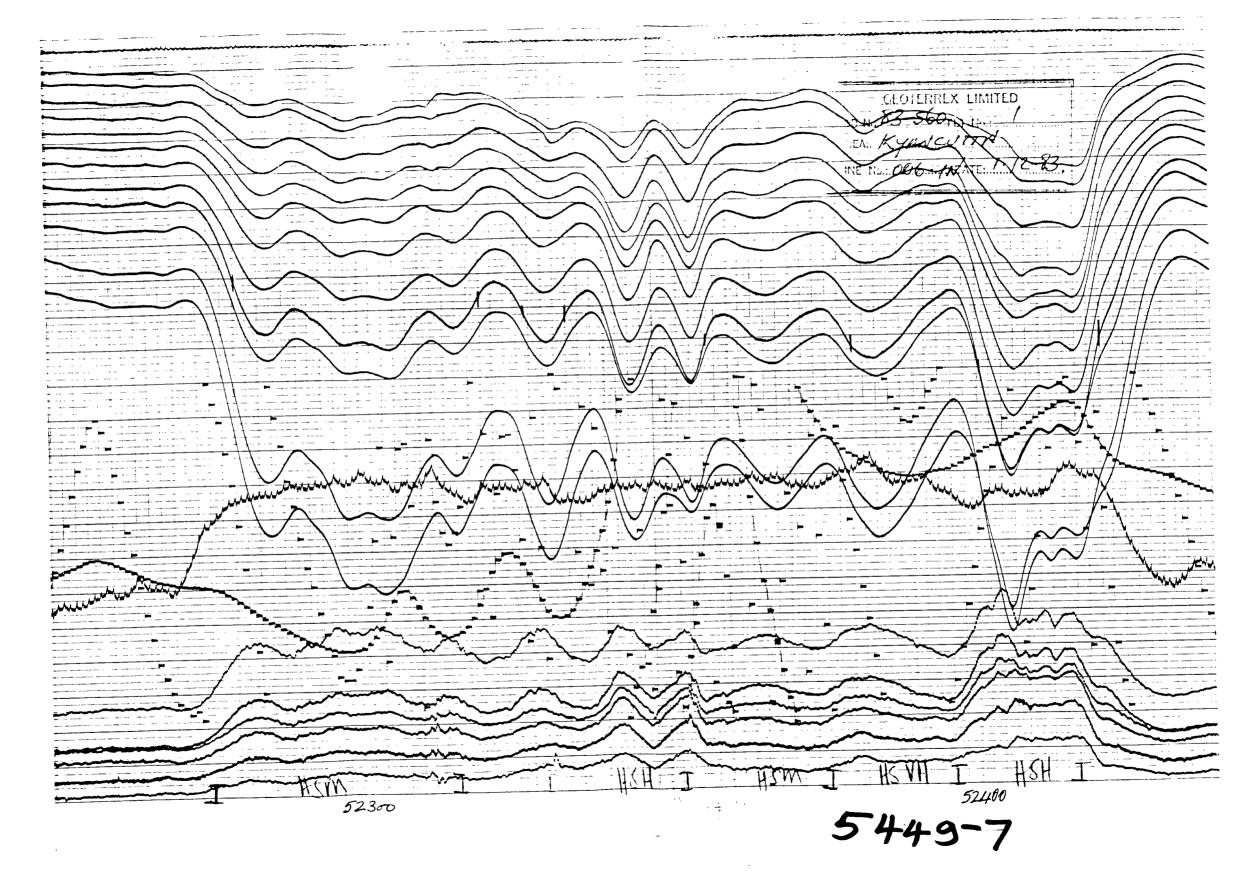


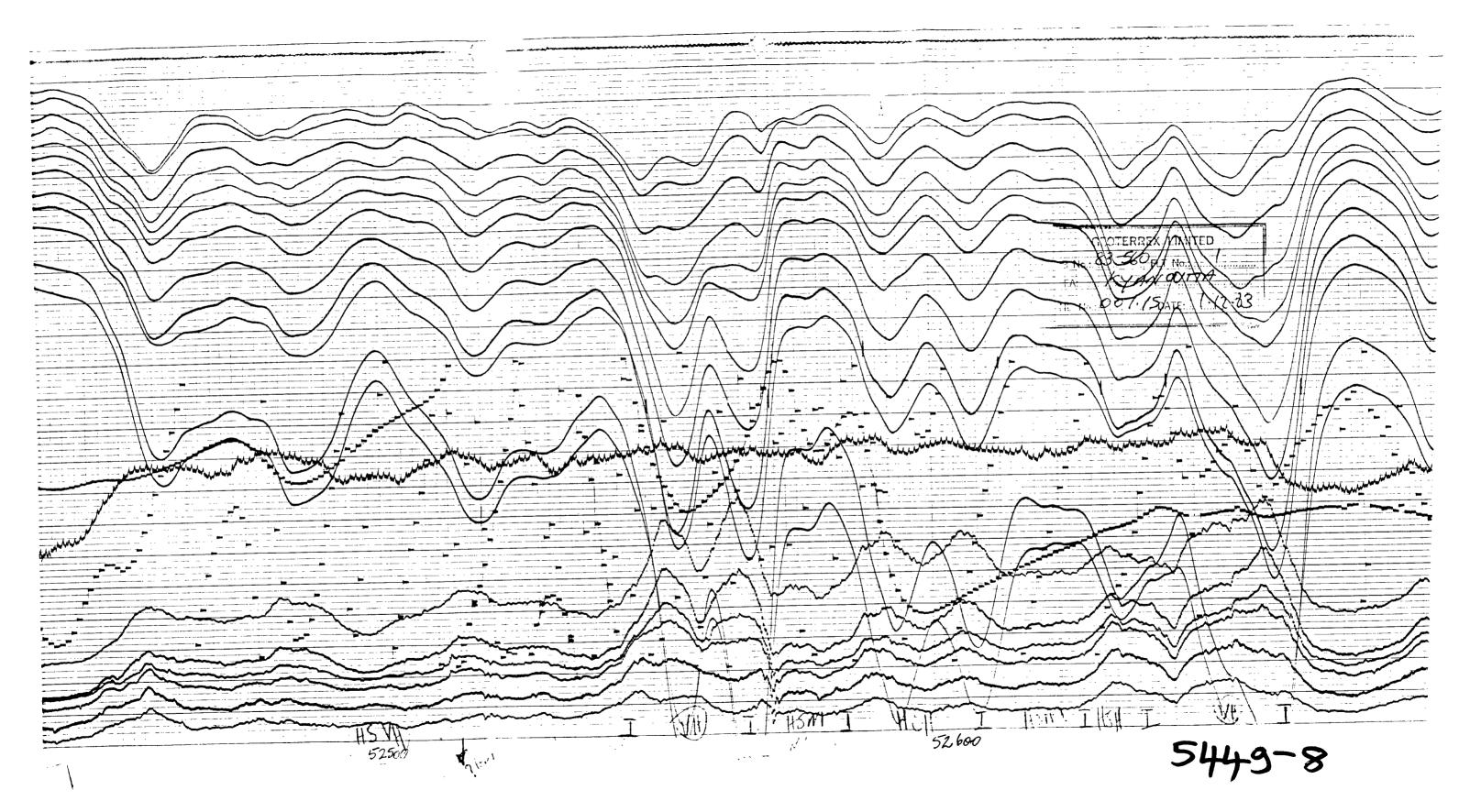


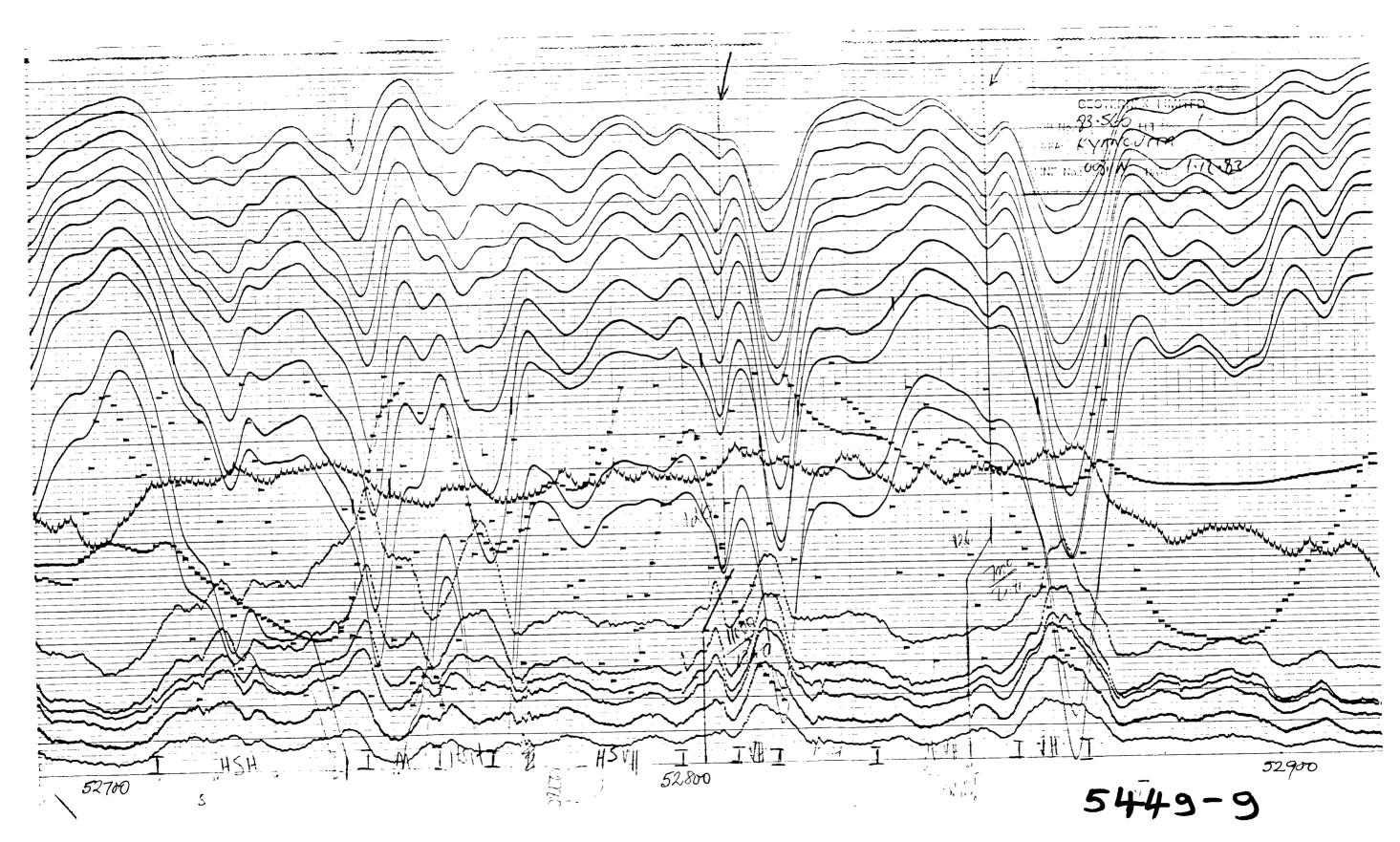


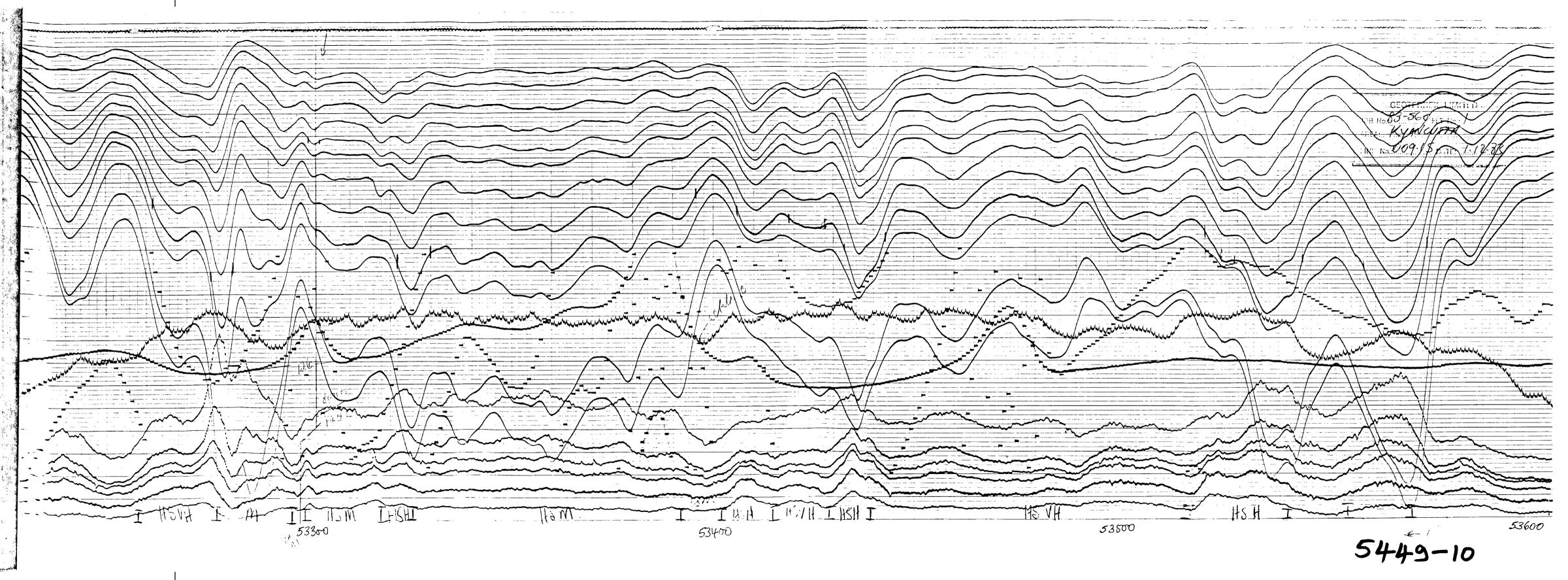


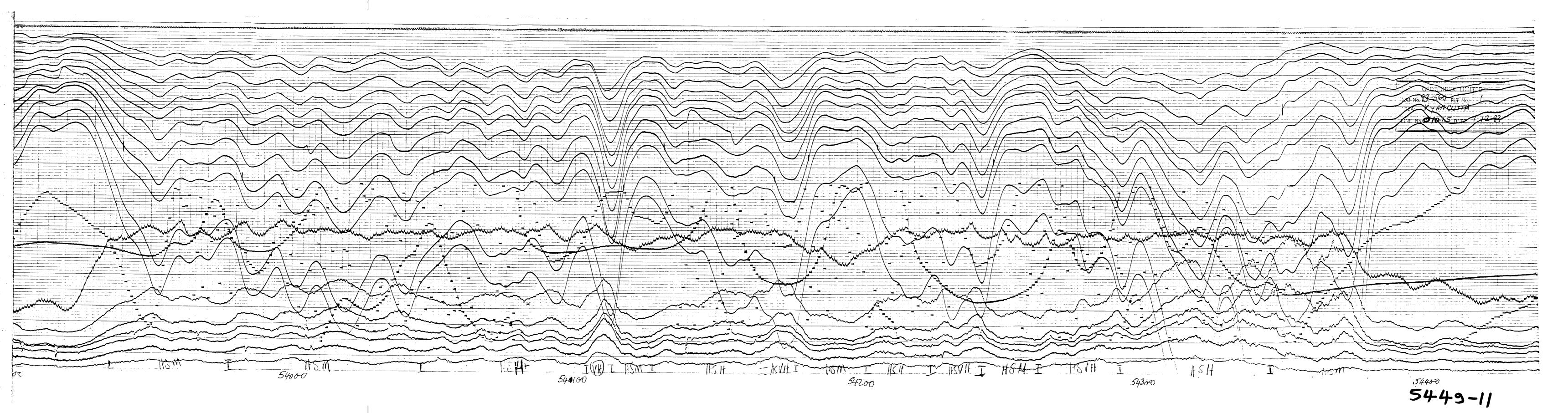


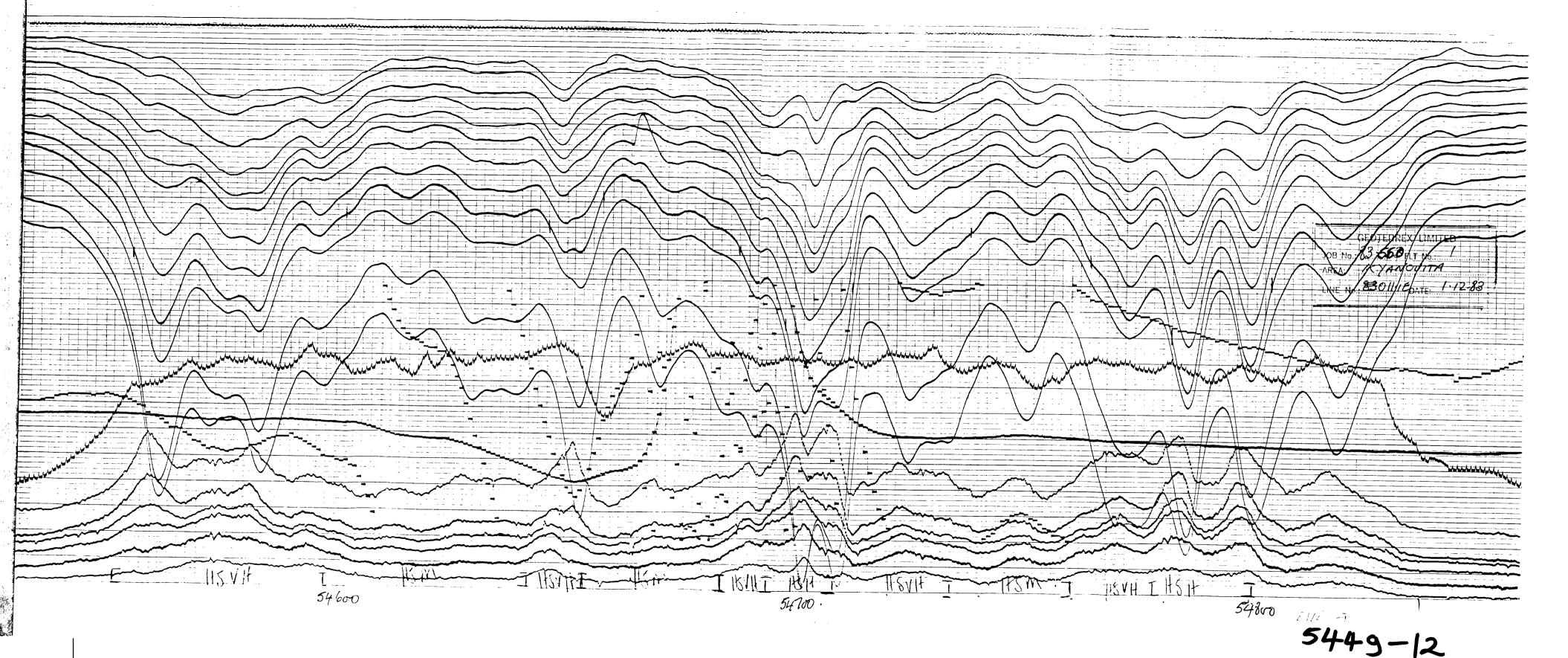




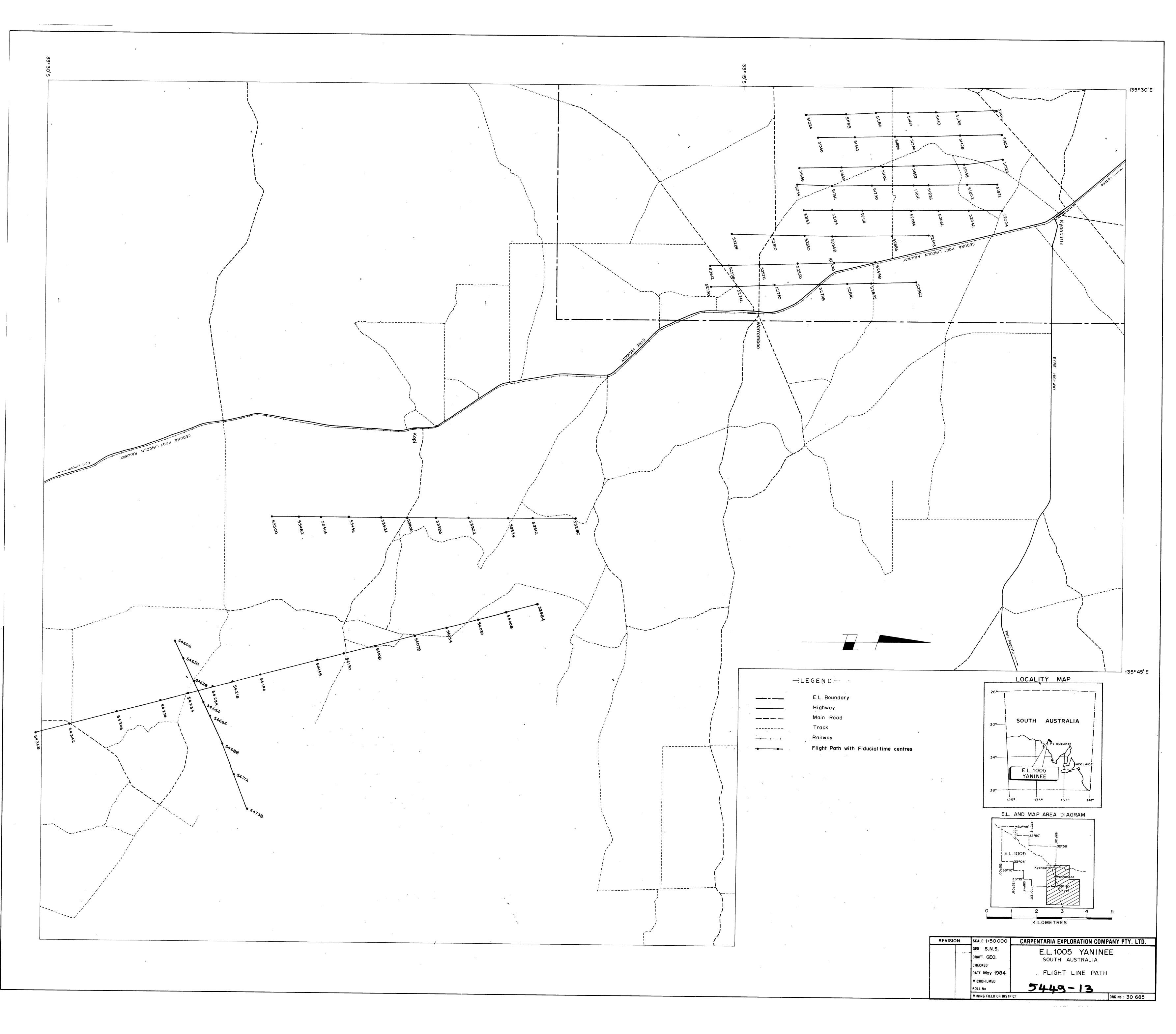


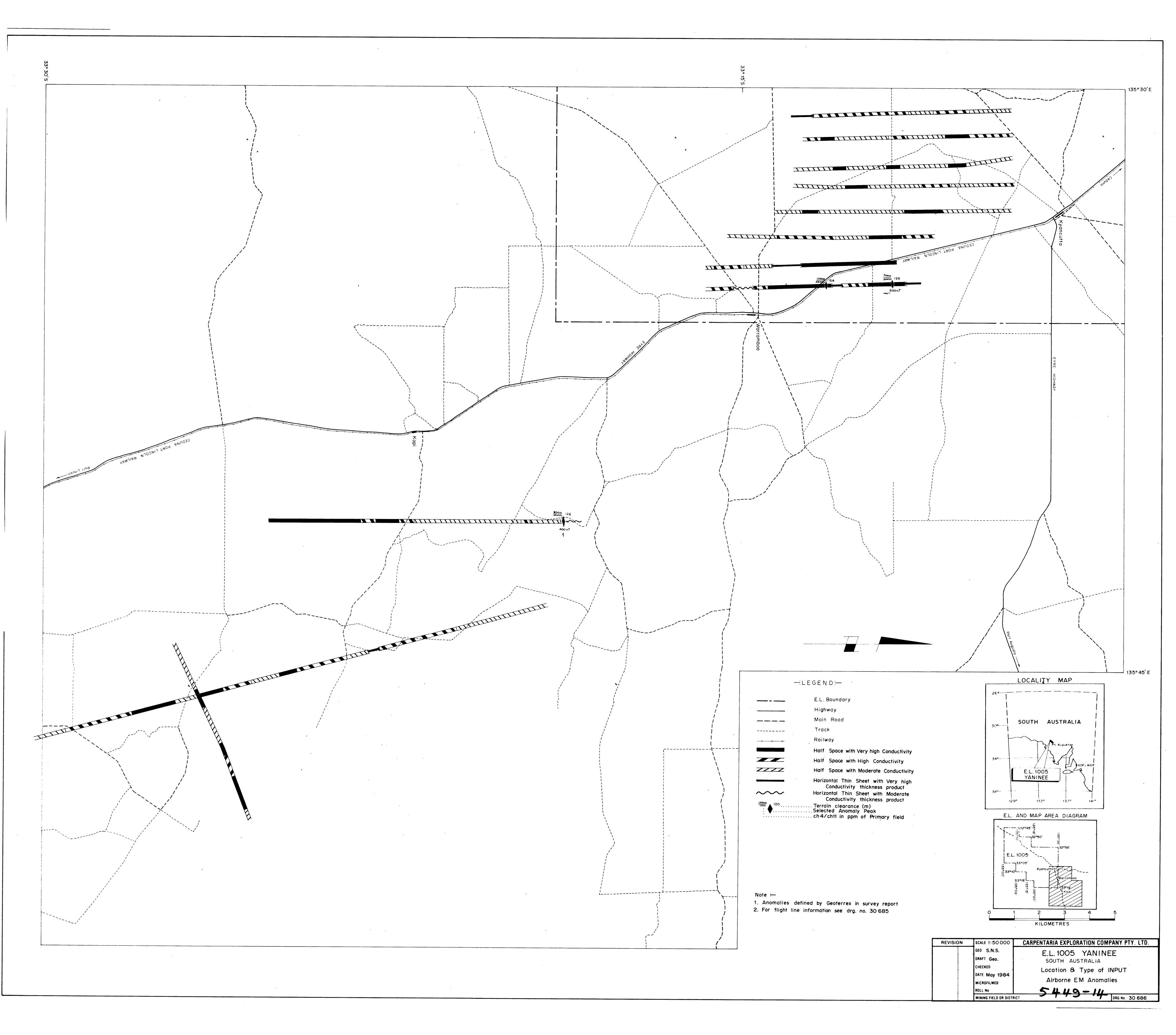


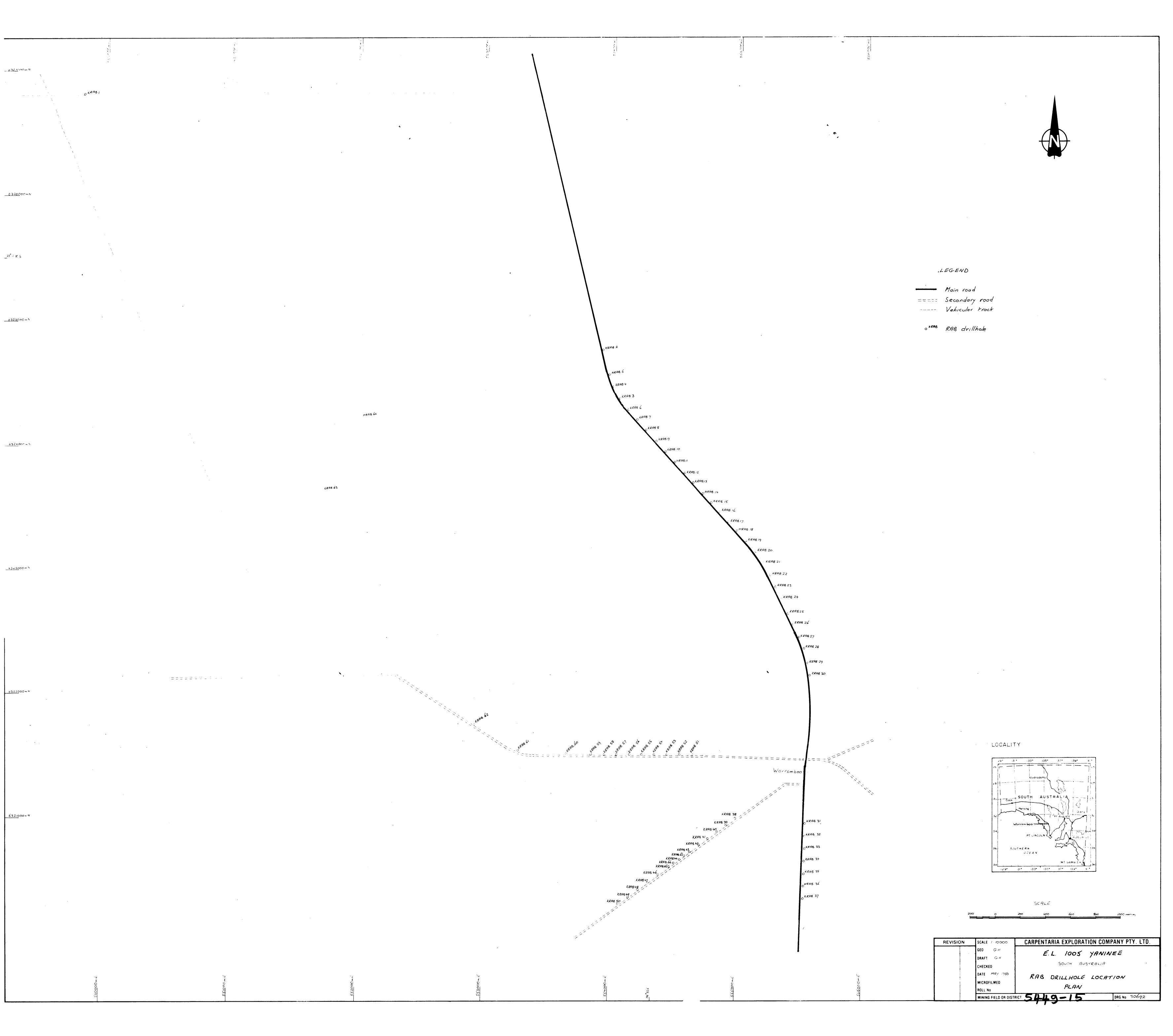


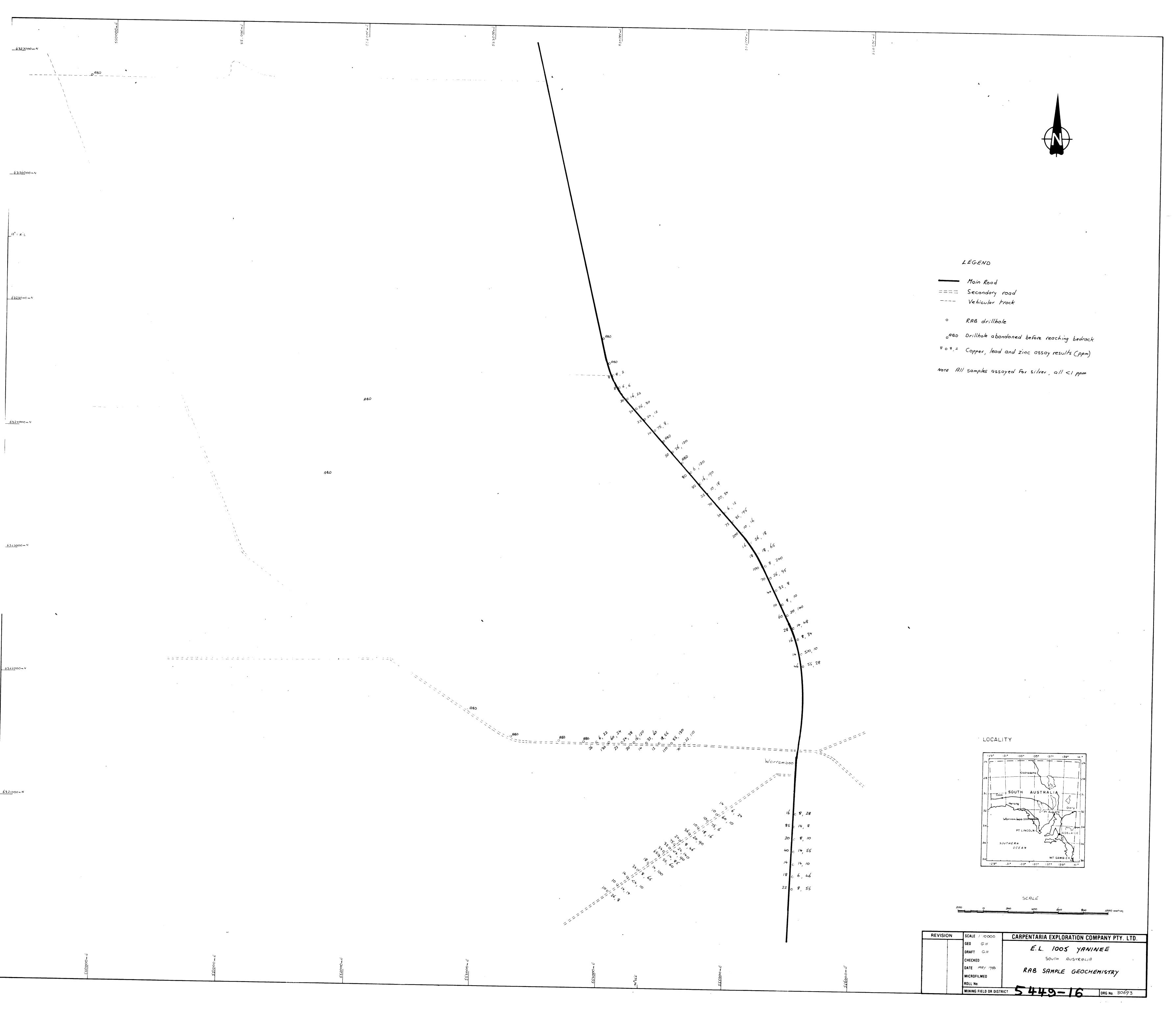


EX —		MAGNETICS/RADIOMETRICS INPUT FLIGHT LOG						
ANALOGUE FUIL SCAIES  Th T.C.  COMPTON COEFF.  Crystal Vol  PRE-FLIGHT U count, U source Th count, U source K count, U source			SENS  RATE  DIGITAL DI START  STOP  CAMERA 'I' INPUT (RX  Gall  th source	0.9 v	POST FLIGHT  U count, U source  K count, U source  AREA  MH EXG  MHY MLM  MCKENZIE  MOCKENZIE  U count, Th source  K count, U source  K count, U source  K count, Th source		<i>Y</i>	
urce			n source					
P/N	HDG	Cal 4	END	TIME			RECOVERY	
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#### CARPENTARIA EXPLORATION COMPANY PTY. LTD.

#### EXPLORATION LICENCE NO.1005 "YANINEE"

PROGRESS AND FINAL REPORT FOR QUARTER ENDED DECEMBER 1, 1984

#### 1. TERMS AND CONDITIONS

Exploration Licence No.1005 "Yaninee" was granted on June 2, 1982, for a term of one year with an expenditure commitment of \$70 000. The Licence has subsequently been extended for a period of one year on two occasions. The Licence is located approximately 200 km west of Whyalla and covers an area of 2276 km<sup>2</sup>.

The area was held previously for two years as Exploration Licence No.610. This Licence was granted on March 17, 1980.

#### 2. EXPLORATION

The area was originally taken up for exploration for sandstone type uranium mineralization after uranium had been found in the Narlaby Palaeochannel to the north. A total of 5514 m of "open-hole" mud drilling was completed in 114 holes in 1980 and early 1981. This drilling revealed a major palaeochannel of Eocene age which is infilled with coarse, highly "reduced" sands. Traces of uranium mineralization were found in Pliocene sands overlying the palaeochannel. Results of this exploration were reported in Progress Reports on Exploration Licence No.610.

In May 1981 Carpentaria Exploration Company Pty. Ltd. entered into an expenditure agreement with SADME whereby individual commitments to each Licence in the "Narlaby" project were waived provided that the annual expenditure matched the total commitment of all the Licences. This was agreed to by SADME as major disequilibrium problems were causing severe problems in estimating grades of uranium mineralization in the Yaninee Licence area, and intensive drilling was needed in this area to solve the problem before further reconnaissance exploration was carried out. After the expenditure amalgamation, reporting on the Yaninee Licence was included with other Licences in the Narlaby Project Progress Reports.

Late in 1983 the emphasis of exploration was changed from uranium to the possibility of base and precious metal mineralization associated with banded iron formations in the Kopi area in the eastern part of the Licence. As there is no outcrop of basement rocks in this area an Input survey was flown in November 1983 over a series of elongate magnetic anomalies. This survey was followed up by a series of "RAB" holes which were drilled in April-May 1984. A total of 2192 m was drilled in 66 holes. Assays of basement samples for base and

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## 2. EXPLORATION

precious metals were not encouraging and it was decided not to do any further work in the area. Results of the base metal exploration were presented to the Department in Progress Reports on Exploration Licence No.1005.

The Licence was surrendered early in October 1984.

## 3. EXPENDITURE

Individual statement of expenditure is appended.

P.J. Binks

# CARPENTARIA EXPLORATION COMPANY PTY. LTD.

# EXPLORATION LICENCE NO., 1005 "YANINEE"

## FINAL STATEMENT OF EXPENDITURE.

106

\$

\$

TOTAL - THIS PERIOD

Nil

Nil

Previously Reported

145 482

Total Project Expenditure To Date

\$145 482

A.E. Covacich.