

# Open File Envelope

## No. 3809

**EL 586**

**MOUNT STURT**

**PROGRESS REPORTS TO LICENCE EXPIRY  
FOR THE PERIOD 20/2/80 TO 19/11/80**

Submitted by  
Carpentaria Exploration Co. Pty Ltd  
1980

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**Enquiries:** Customer Services  
Ground Floor  
101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000  
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**PRIMARY INDUSTRIES  
AND RESOURCES SA**

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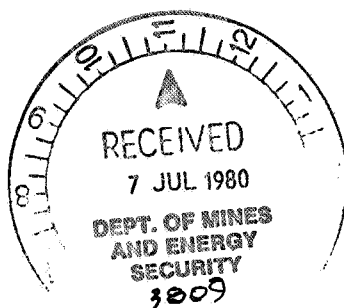
# **CARPENTARIA EXPLORATION COMPANY PTY. LTD.**

MINING TENEMENT

PROGRESS REPORT

EXPLORATION LICENCE NO.586 "MT. STURT"

PROGRESS REPORT FOR QUARTER ENDED MAY 19, 1980



DATE: MAY 1980

COPY: Department of Mines & Energy

EXPLORATION LICENCE NO. 586 "MT. STURT"

PROGRESS REPORT FOR QUARTER ENDED MAY 19, 1980

1. TERMS AND CONDITIONS

The Exploration Licence is located approximately 220 kms west of Port Augusta and covers an area of 346 km<sup>2</sup>. The Licence was granted for a term of one year commencing on February 20, 1980 with an exploration expenditure requirement of \$20 000.

2. EXPLORATION

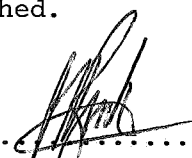
Two phases of rotary-mud, open-hole drilling have been carried out in the Licence area. In the first phase 15 holes were drilled (IR 93, 95, 96, 100-104, 112-115, 139-141) and wire line logged for gamma, S.P. and resistivity. Positions of these holes are shown on Drawing No. 15683 while geological logs incorporating reduced wire line logs are shown in Appendix I.

In the second phase of drilling, which has just been completed, 29 holes were completed (IR 193-194, 196-213, 214-217, 229, 247-250). Positions of these holes are shown on Drawing No. 15683. Geological logs and wire line logs will be forwarded to the Department with the next Progress Report.

Contour plans showing depths to pre-Eocene basement and isopachs of Eocene sediments are currently being prepared and will be included with the next Progress Report.

3. EXPENDITURE

A statement of expenditure is attached.


  
.....  
P.J. Binks  
Senior Geologist

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

EXPLORATION LICENCE NO.586 "MT. STURT"

STATEMENT OF EXPENDITURE FOR QUARTER ENDED MAY 19, 1980

	\$	\$
Administration	57	
Assaying	149	
Drilling	23 780	
Operating Labour	1 629	
Stores	145	
	<hr/>	
<u>Total This Period</u>	\$25 760	\$25 760
	<hr/>	
<u>Already Reported - Current Term</u>		-
		<hr/>
<u>TOTAL - CURRENT TERM</u>		\$25 760
Previously Reported		-
		<hr/>
Total Project Expenditure to Date		\$25 760
		<hr/>

  
 .....  
 R.E. Darlington  
 Administration Manager

0005

APPENDIX I

E.L. 586 MT. STURT - GEOLOGICAL LOGS

-oOo-

PROSPECT: POONDANA ROCK CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE NO: IR93

LOCATION: 18.4 km NE. Mimpi SA

ROTARY DRILL HOLE LOG

CO-ORDS: .....

AIR: FROM...9...TO...2m...

RL COLLAR: .....m

WATER: FROM...2m...TO...72m.....

A.M.G. 205257 2015 0110

Geophysical Log  
Type:

Depth  
Metres

Strip  
Log

Ox

Lithological Log

0006

SOIL (SANDY) & CALC. CLAY

SILTY CLAY

SILTY SAND f gr rounded qtz

CLAY grey, grey green

thin bands black lignitic SILTY CLAY

GRANITE brown white clay , c gr ang qtz

Sample nos. 550041-76

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW

DRILLER: W.L. SIDES

SCALE: 1:500

LOGGED BY: G. HOOPER

DATE DRILLED: 12/11/79

DRG./CODE No:

PROSPECT: MT. STURT..... CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE N<sup>o</sup> IR95

## LOCATION: 15.2 km NE Mimipa S.A. ROTARY DRILL HOLE LOG

CO-ORDS: .....

AIR: FROM...9...TO...2m.....

RL COLLAR: .....m

WATER: FROM...2m...TO...32m.....

A.M.G. 2432 S.F. 7950010

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log	0007
NOT LOGGED				SAND f gr rounded qtz brown-white	
				SILCRETE	
	10			SAND f gr rounded qtz, brown white	
	20			SAND f gr rounded qtz, grey	
	30			CLAY grey grey green	
				SAND c gr qtz	
				GRANITE hard	
	40				
	50				
	60				
	70				
	80				
	90				
	100				
	110				
	120				
				Sample nos. 55900-15	
REASON FOR HOLE:	DRILL TYPE: MAYHEW		LOGGED BY: G.HOOPER		
OTHER DETAILS:	DRILLER: W.L.SIPES		DATE DRILLED: 13/11/79		
	SCALE: 1:500		DRG./CODE No:		



PROSPECT: MT. STURT..... CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE N<sup>o</sup> IR 96

LOCATION: 17.4 km NE. Minnipa S.A.

## ROTARY DRILL HOLE LOG

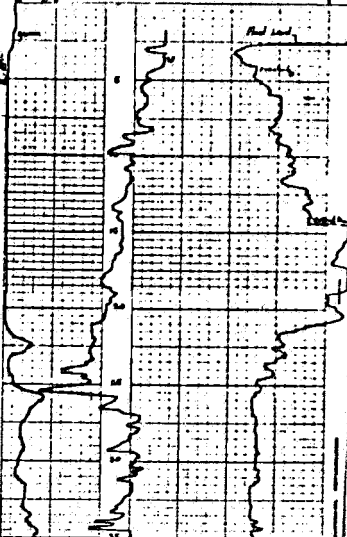
CO-ORDS:.....

AIR: FROM.....TO.....

R.L. COLLAR:.....m

WATER: FROM.....TO.....

A.M.G. 238004 78875 N 0

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log	0008
	0			CLAYEY SOIL	
				CLAYEY SILT white and reddish	
				CLAYEY SILT red-orange	
	10			SILT lim yellow & pink red	
				SILT/SAND f gr whitish & yellowish	
	20				
				CLAY grey - light grey green,	
				minor f-m gr SAND lenses?	
	30				
				GRANITE hard qtz feldspar flakes	
	40				
	50				
	60				
	70				
	80				
	90				
	100				
	110				
	120				

Sample nos. ES0116-131

REASON FOR HOLE:

DRILL TYPE: MAYHEW

LOGGED BY: GHOOPER

OTHER DETAILS:

DRILLER: W.L. SIDES

DATE DRILLED: 14/11/79

SCALE: 1:500

DRG./CODE No:

PROSPECT: MT. STURT... CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE N° IR 101

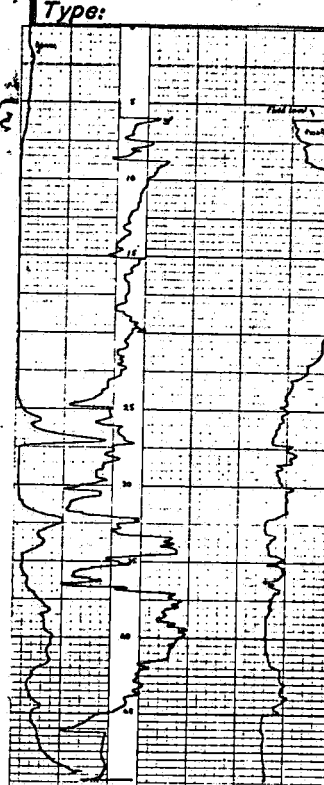
LOCATION: 162 km NE Minipis A.

ROTARY DRILL HOLE LOG

CO-ORDS: .....

AIR: FROM.....TO.....  
WATER: FROM...9...TO...49.5.....

R.L. COLLAR: .....m  
A.M.G. 21351 7817511 °

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
				0009 CLAYEY SILT red & yellow orange
	10			SILT/SAND white, lim yellow
	20			SILT/SAND f gr rounded qtz, whitish
	12			thin lenses black carbonaceous silt
	10			
	30			SILT/SAND f gr qtz, greyish
	40			CLAY grey
				SANDY CLAY f-m gr qtz
				GRANITE kaolinitic
	50			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

Samplings. 550237-260

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW

DRILLER: W.L. SIDES

SCALE: 1:500

LOGGED BY: G. HOOPER

DATE DRILLED: 15/11/79

DRG./CODE No:

PROSPECT: MT. STURT... CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE NO: IR102

LOCATION: 15.2 km NEMMIPA S.A.

ROTARY DRILL HOLE LOG

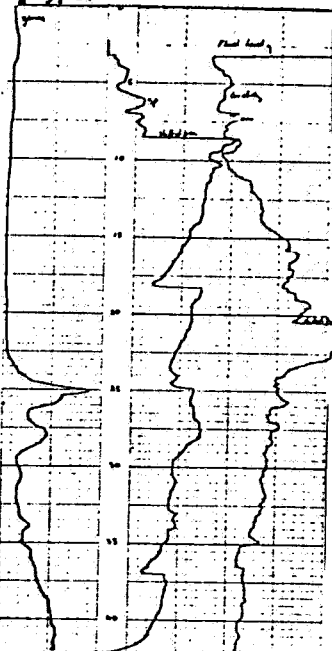
CO-ORDS: .....

AIR: FROM... 0... TO... 2m.....

R.L. COLLAR: ..... m

WATER: FROM... 2m... TO... 43m.....

A.M.G. 24 850E 74750 11 0

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
	0			KUNKAR/SANDY SOIL 0010
	10			CLAYEY SILT brownish some yellow
	20			SILT white v f gr rounded qtz
	20			SAND f-m gr rounded qtz whitish colour iron staining present
	20			SAND f-m gr rounded qtz, grey
	30			
	40			GRANITE kaolinitic
	50			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

Sample nos. 550261-281

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW

DRILLER: W.L. SIDES

SCALE: 1:500

LOGGED BY: G. HOOPER

DATE DRILLED: 15/11/79

DRG./CODE No:

PROSPECT M. STUR

# ROTARY DRILL HOLE LOG

HOLE NUMBER

LOCATION: 16.2 km NE Minnipa S.A.

AIR: FROM.....TO.....

R.L. COLLAR: .....m

CO-ORDS: .....

WATER: FROM...9...TO...76m.....

A.M.G. 26.34 74.0.11

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
				CLAYEY SILTS sand on top, brownish 0011
	10			
	20			SILT/SAND v f g rounded qtz, white & lim yellow
	30			
	45			lenses black carbonaceous SILT
	40			CLAY grey-grey green
	50			SAND m gr sub rounded qtz, clean white, traces hematite-limonite staining coarser grained towards base
	60			GRANITE highly weathered
	70			
	80			
	90			
	100			
	110			
	120			

Samples. 55 0282-318

REASON FOR HOLE:

DRILL TYPE: MAYHEW

LOGGED BY: G. HOOPER

OTHER DETAILS:

DRILLER: W.L. SIDES

DATE DRILLED: 16/11/79

SCALE: 1:500

DRG./CODE No:

PROSPECT: MT. STURT... CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE NO IR 104

ROTARY DRILL HOLE LOG

LOCATION: 17.2 km NE. Minnipa S.A.

AIR: FROM.....TO.....

R.L. COLLAR:.....m

CO-ORDS:.....

WATER: FROM.....TO.....

A.M.G. 21450E 76 000 0

Geophysical Log  
Type:

Depth  
Metres

Strlp  
Log

Ox

Lithological Log

CLAYEY SILT brown

0012

SILT white & grey br layers

SILT f gr rounded qtz  
white & yellowish

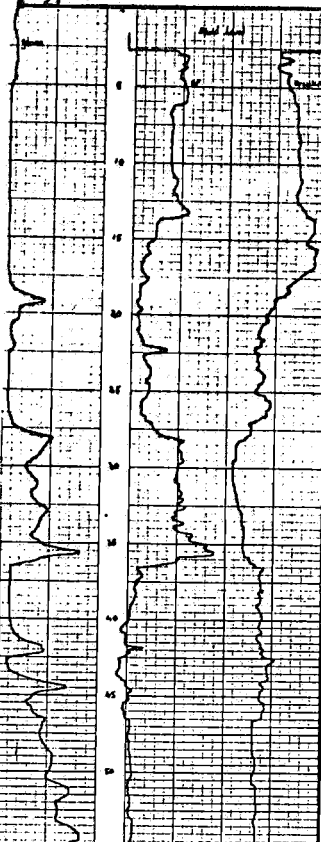
SILT black v f gr rounded qtz, carbonaceous  
SILT white grey  
CLAY greyish

CLAY black

SAND/GRAVELLY SAND v c gr sub ang to sub rounded  
qtz, possibly weakly oxidised

SAND/GRAVELLY SAND v c gr sub ang to sub rounded  
qtz, black humic staining

GRANITE v c gr ang qtz in cream clay matrix



REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW

LOGGED BY: G. HOOPER

DRILLER: W.L. SIDES

DATE DRILLED: 16/11/79

SCALE: 1:500

DRG./CODE No:

Samples. 550319-345

LOCATION: 19 kms E Minnipa S.A.

## ROTARY DRILL HOLE LOG

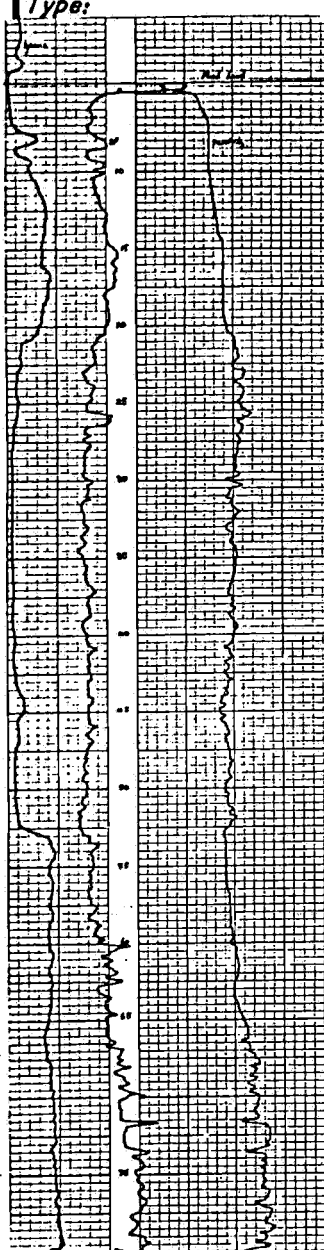
CO-ORDS: .....

AIR: FROM.....TO.....

WATER: FROM.....O. TO.....m.....

RL COLLAR:.....m

A.M.G. 3900L 6900H

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log	0013
				SURFICIAL CLAY	
				CLAY black & SILT gypsiferous c gr cryst gyp	
				SILTY SAND	
	10			CLAY black	
				CLAY grey black	
				CLAY grey & yellow	
	20			SAND f-m gr sub rounded qtz humic staining	
				thin brown black clay lenses	
				SAND c gr sub rounded qtz trace limonitic staining	
				SAND m gr sub rounded qtz grey colour trace	
	30			pyrite	
	40			trace weak oxidation	
	50			gravelly	
				GRANITE	
	60				
	70				
	80				
	90				
	100				
	110				
	120				

Sample nos. 550460-498

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW

DRILLER: W.L. SIDES

SCALE: 1:500

LOGGED BY: G. HOOPER

DATE DRILLED: 18/11/79

DRG./CODE No:

A.M.G. 33875E 6000N

Geophysical Log Type:		Depth Metres	Strip Log	Ox	Lithological Log
					0014
					SILTY SAND light brown
					CLAY black
					SILT light brown
					CLAY black
		10			CLAY grey green
					CLAY light grey minor red
		20			
					SANDY CLAY grey white m gr qtz
					SAND c gr sub rounded qtz, lenses d br SILTY CLAY
					traces of oxidised pyrite
		30			
					abundant v fine gr pyrite
					lenses d br SILTY CLAY
		40			
					pyritic
					SANDY GRAVEL v rounded qtz to 1½cm
		50			
					abundant pyrite
					GRANITE highly weathered
		60			
		70			
		80			
		90			
		100			
		110			
		120			

Sample nos. 550499-528

**REASON FOR HOLE:**

DRILL TYPE: MAYHEW

LOGGED BY: G. HOOPE

**OTHER DETAILS:**

DRILLER: W. L. SIDES

DATE DRILLED: 19/11/7

SCALE: 1:500

DRG./CODE No:

PROSPECT: MT. STURT..... CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE N°: 1K114  
 LOCATION: 20.2 km E. Minnipa S.A. ROTARY DRILL HOLE LOG  
 CO-ORDS: ..... AIR: FROM..... TO..... R.L. COLLAR: ..... m  
 WATER: FROM... 0... TO... 3.5m... A.M.G.: 34500E (170011) °

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
				SURFICIAL SAND
				CLAY brown
				SILTY CLAY grey
	10			SILT white grey
				CLAY grey black
				CLAY grey green
	20			CLAY light grey
				GRANITE kaolinitic
	30			
	40			
	50			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

Samples 550529-546

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW

DRILLER: W.L. SIDES

SCALE: 1:500

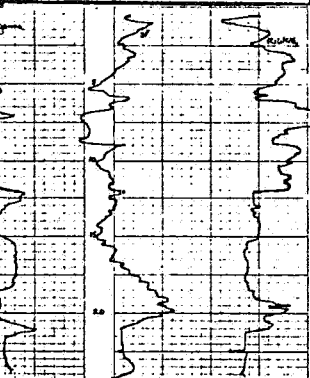
LOGGED BY: G. HOOPER

DATE DRILLED: 19/11/79

DRG./CODE No:



PROSPECT: MT. STURT... CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE N<sup>o</sup> IR 115  
LOCATION: 20.6 E. Minnipasa.  
CO-ORDS: AIR: FROM..... TO..... RL COLLAR:..... m  
WATER: FROM... 0... TO... 25.5m. A.M.G.: 30720: 658000

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log	0016
	10			SILTY SAND light brown SILT f gr rounded qtz, grey white & light brown	
	20			CLAY black CLAY grey green	
	25	+	+	GRANITE light brown clay with c gr ang qtz	
	30	+		hard	
	40				
	50				
	60				
	70				
	80				
	90				
	100				
	110				
	120				

Sample nos. 550547 - 558

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW

DRILLER: W.L. SIDES

SCALE: 1:500

LOGGED BY: G. HOOPER

DATE DRILLED: 19/11/79

DRG./CODE No:

PROSPECT: MT. STURT..... CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE N<sup>o</sup> IR139

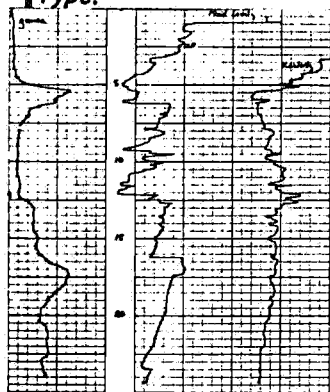
LOCATION: 30.2 km. E. Minnipa S.A. ROTARY DRILL HOLE LOG

CO-ORDS:..... AIR: FROM..... TO.....  
WATER: FROM...0... TO...25m.....R.L. COLLAR:.....m  
A.M.G. 44351 6830011Geophysical Log  
Type:Depth  
MetresStrip  
Log

Ox

Lithological Log

0017

10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120

SAND f gr rounded qtz

CLAY black

CLAY grey green slightly silty

GRANITE highly weathered

Sample nos. 550900-911

REASON FOR HOLE:

DRILL TYPE: MAYHEW

LOGGED BY: G. HOOPER

OTHER DETAILS:

DRILLER: W. L. SIDES

DATE DRILLED: 25/1/79

SCALE: 1:500

DRG./CODE No:

PROSPECT: MT. STURT..... CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE N<sup>o</sup> IR 140

LOCATION: 34.2 km E Minnipa S.A.

## ROTARY DRILL HOLE LOG

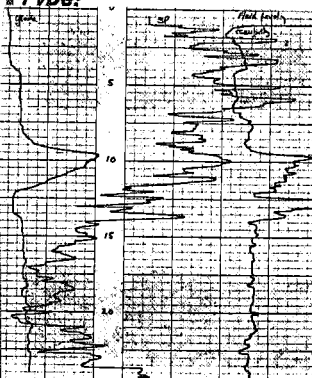
CO-ORDS: 8/16000

AIR: FROM..... TO.....

R.L. COLLAR:.....m

WATER: FROM...0... TO...25m...

A.M.G.:.....°

Geophysical Log Type:	Depth Mètres	Strip Log	Ox	Lithological Log	0018
				SANDY SILT brown	
				CLAYEY SILT brown	
	10			CLAY red brown & dry	
				CLAY grey green & red brown, gritty	
				GRANITE/METASEDIMENT very highly weathered	
	20				
	30				
	40				
	50				
	60				
	70				
	80				
	90				
	100				
	110				
	120				

Samples nos. 550912-923

REASON FOR HOLE:

DRILL TYPE: MAYHEW

LOGGED BY: G. HOOPER

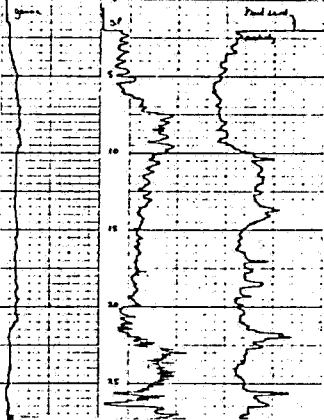
OTHER DETAILS:

DRILLER: WLSIDES

DATE DRILLED: 25/11/79

SCALE: 1:500

DRG./CODE No:

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
				SANDY SILT creamy brown 0019
				CLAYEY SILT brown
	10			CLAY red brown and dry
				CLAY grey green gritty & red brown
	20			
		+	+	GRANITE/METASEDIMENT very highly weathered
		+	+	
	30			
	40			
	50			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

Sample nos. 550924-937

## ROTARY DRILL HOLE LOG

LOCATION: 16.8 km NE Mimpi SA

AIR: FROM..... TO.....

RL COLLAR:..... m

CO-ORDS:.....

WATER: FROM...9... TO...78.5m..

A.M.G. 24000 L 78100 N 0

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
				CLAYEY SILT
				SILT white-yellowish
	10			
				SILT-fine SAND, minor black carb CLAY lenses
	20			
	27			
	27			CLAY dark grey-black
	27			SAND m gr sub rounded qtz, minor red brown hem
	30			CLAY grey staining
	30			
	40			SAND c gr sub rounded qtz
	40			weakly oxidised in places
	40			traces of humic staining
	50			
	50			lenses of cream br CLAY
	60			
	60			GRAVEL
	60			up to 1 1/2 cm rounded qtz grains
	60			trace pyrite, transparent grey brown
	70			
	70			
	80			
	80			GRANITE hard
	90			
	100			
	110			
	120			

Samples nos. 550199-236

REASON FOR HOLE:

DRILL TYPE: MAYHEW

LOGGED BY: G. HOOPER

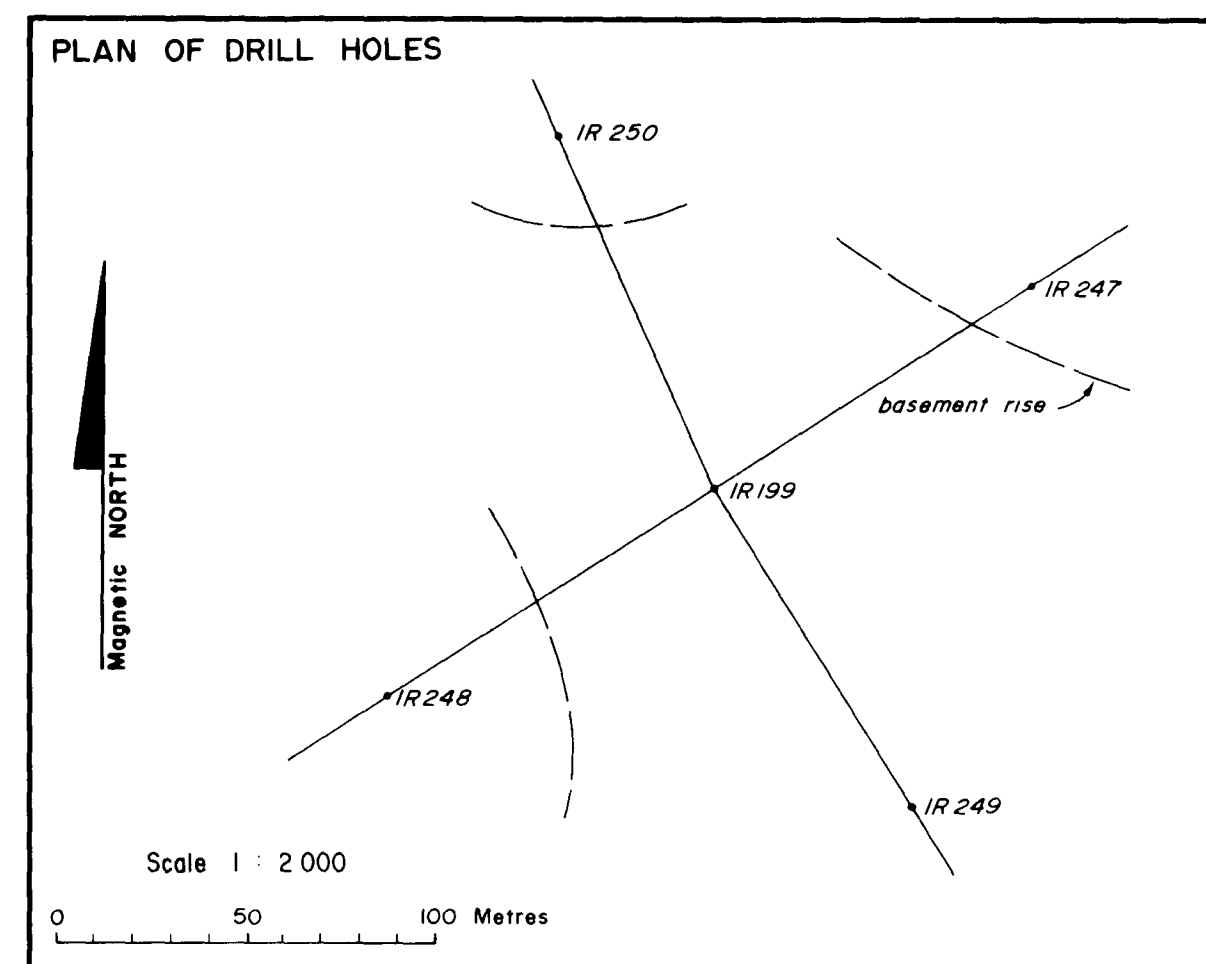
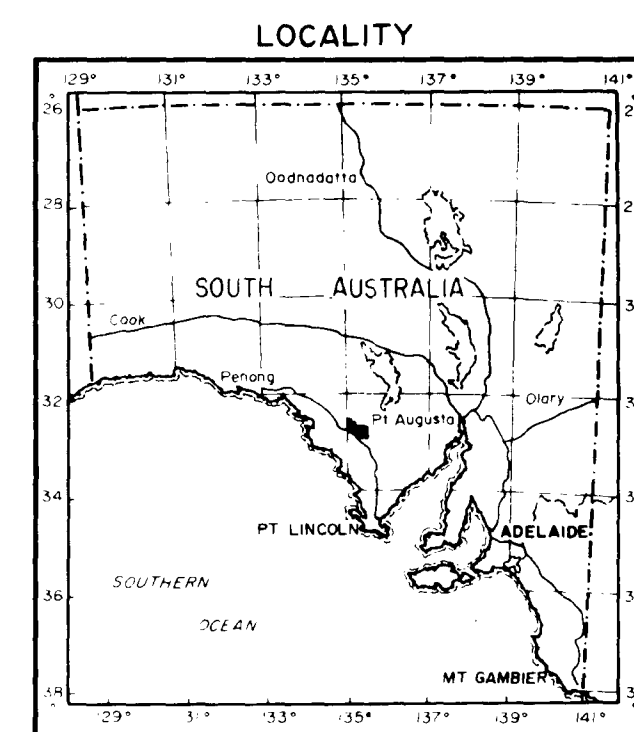
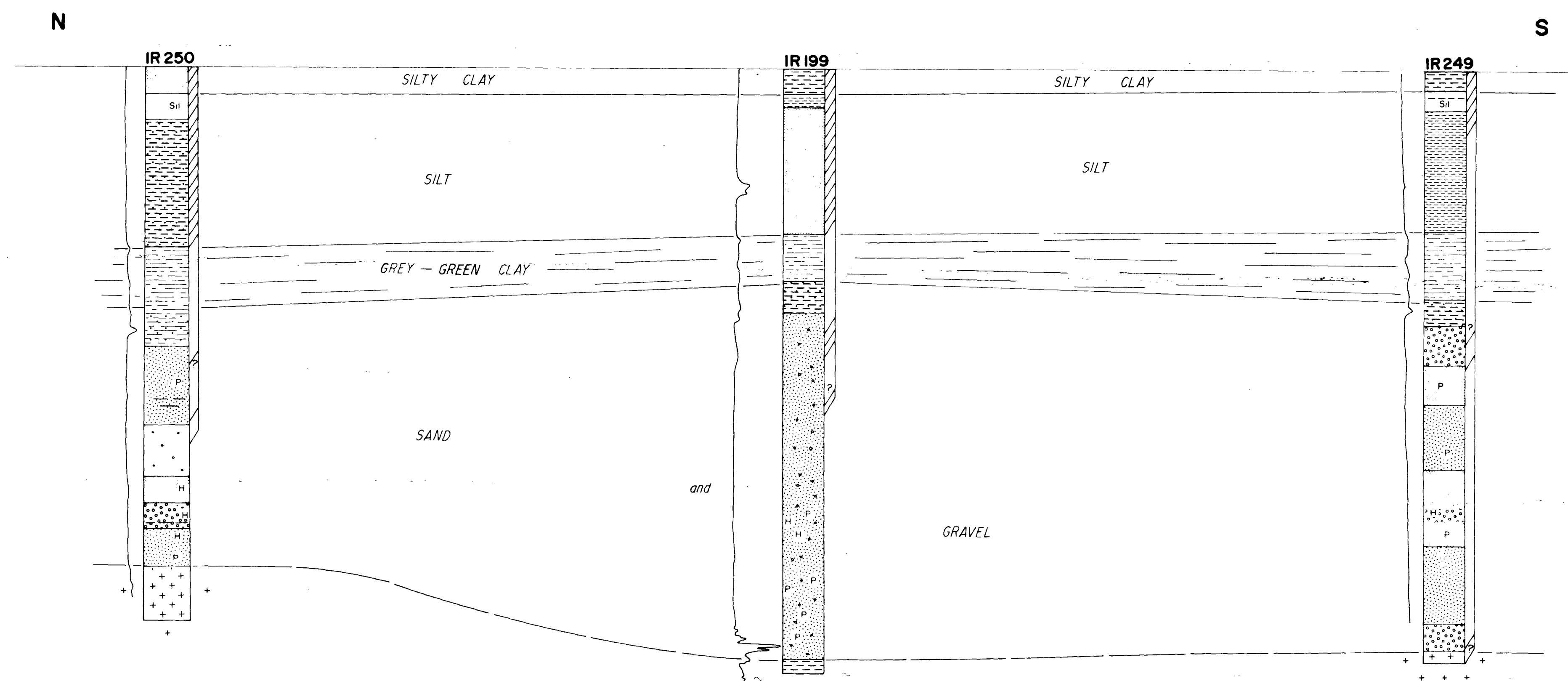
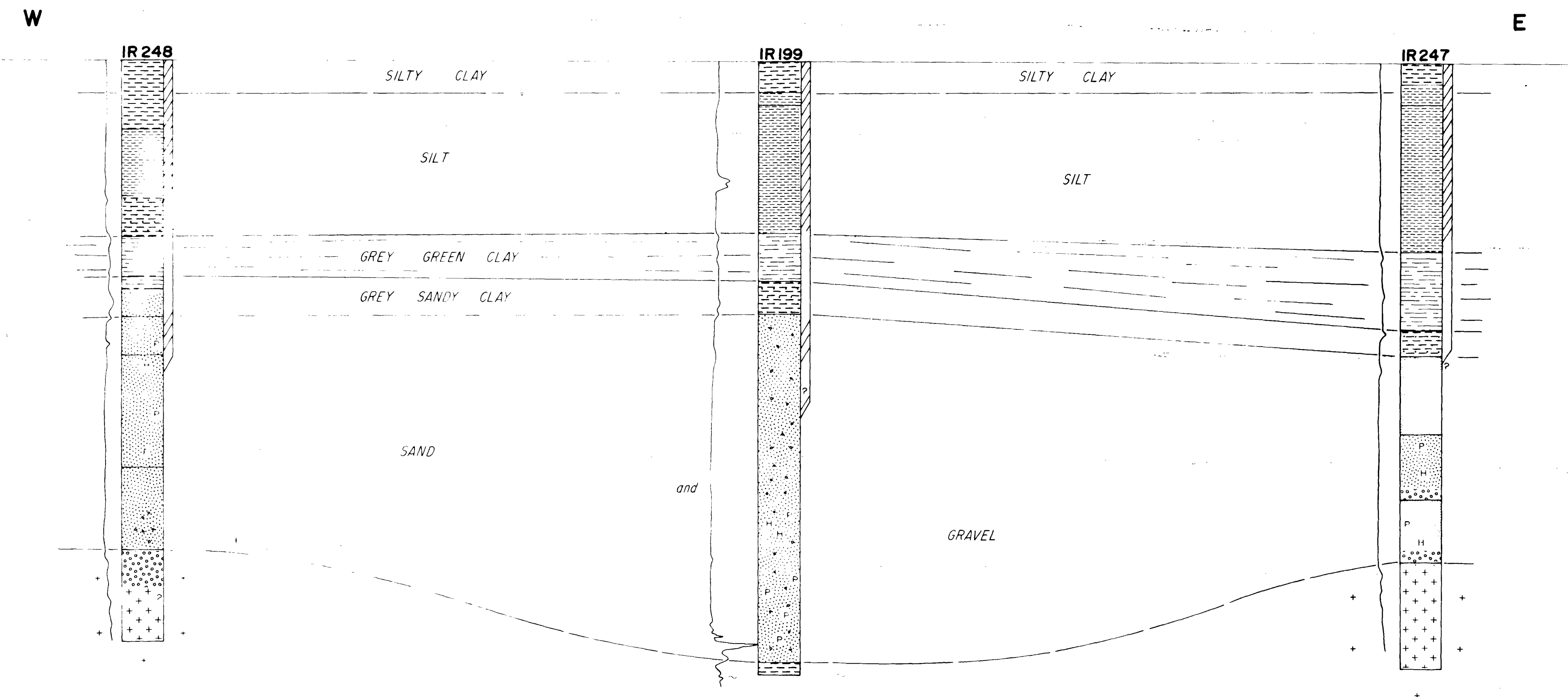
OTHER DETAILS:

DRILLER: W.L. SIDES

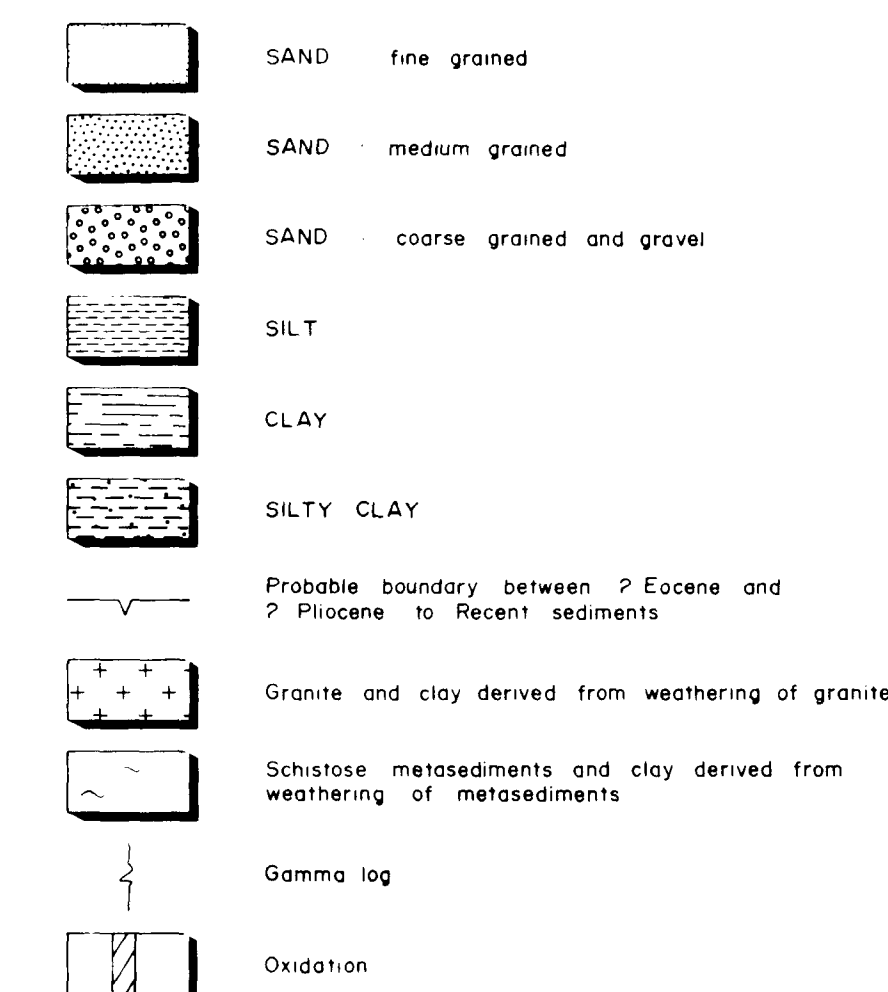
DATE DRILLED: 15/11/79

SCALE: 1:500

DRG./CODE No:



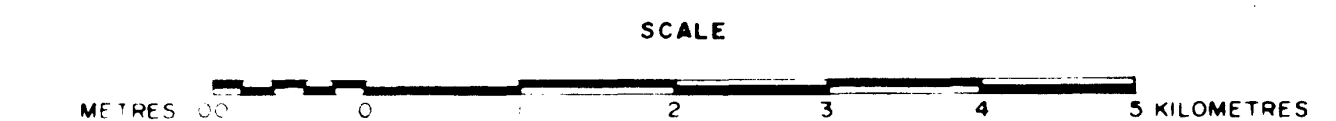
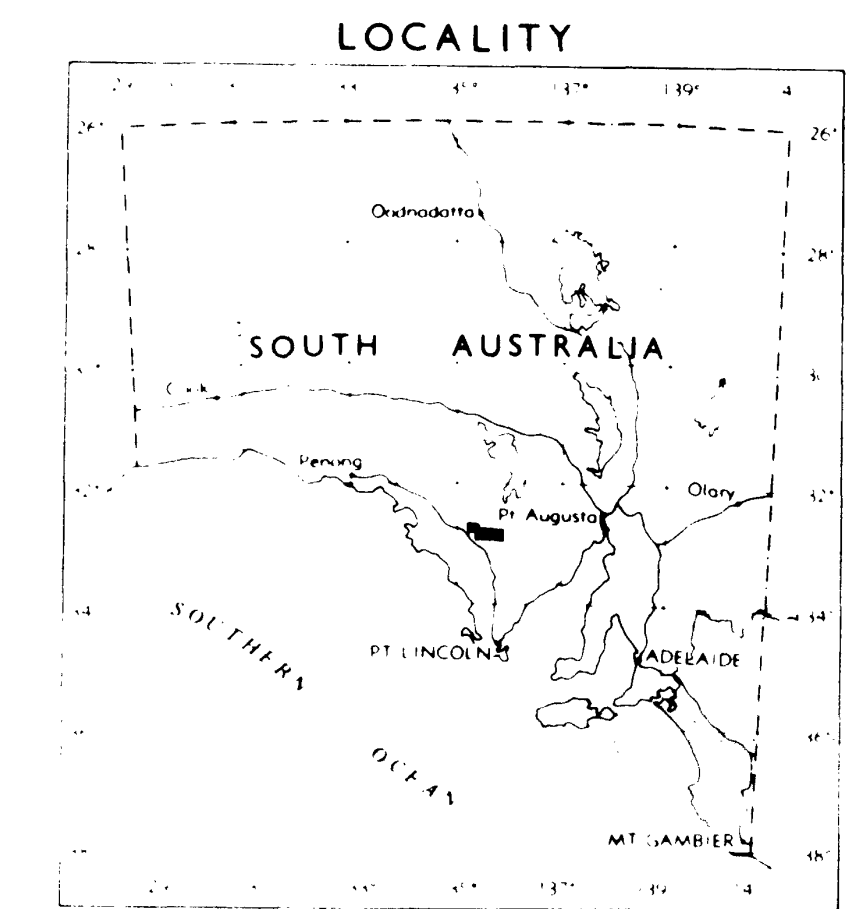
# LEGEND



REVISION	SCALE: 1 : 500	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO: G.H., P.O., P.B.	
	DRAWN: JMC	
	CHECKED: JMC	
	DATE: JULY 1980	
	MICROFILMED:	
	ROLL NO:	
	MINING FIELD or DISTRICT: NARLABAY CHANNEL	STH. AUST. DRG. NO: 15699

**E.L. 586 MT. STURT**  
**(NARLABAY CHANNEL PROJECT)**  
**CROSS SECTIONS**  
**through IR247, 199, 248**  
**and 249, 199, 250**

3809-1



REVISION	SCALE 1:50000	APPENDIX 1 EXPLORATION COMPANY PTY LTD
	GEO G.M.	E.L.A. MT. STURT
	DRAWN G.M.	SOUTH AUSTRALIA
	CHECKED	DRILL HOLE LOCATIONS
	DATE MAY 1980	3809-2
	MICROFILMED	
	REPRODUCED	
	MINING FIELD or DISTRICT	DRILL NO 15683

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

EXPLORATION LICENCE NO. 586 "MT. STURT"

PROGRESS REPORT FOR QUARTER ENDED AUGUST 19, 1980.

1. TERMS AND CONDITIONS

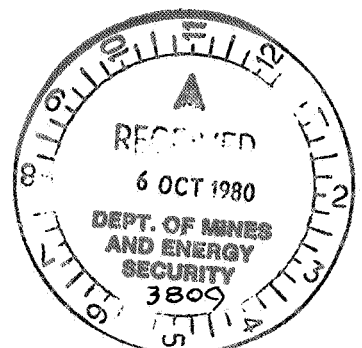
The Exploration Licence is located approximately 220 kms west of Port Augusta and covers an area of 346 km<sup>2</sup>. The Licence was granted for a term of one year commencing on February 20, 1980 with an exploration expenditure requirement of \$20 000.

2. EXPLORATION

Geological logs of holes drilled in March and April of this year have been completed and are presented in the Appendix. Positions of these holes (IR 193-194, 196-213, 214-217, 229, 247-250) are shown on Drawing No. 15683. Photo reductions of the wire-line logs, which were run for SP, resistivity and gamma, are included with the geological logs. Transparencies of the full scale wire-line logs will be forwarded to the Department.

Plans showing depths to pre-Eocene basement and isopachs of Eocene sediments have been prepared and are presented on Drawing Nos. 15705 and 15689. These plans clearly show an incised palaeochannel with a system of tributaries. This palaeochannel system has been called the Narlabay Channel. The portion on E.L. 586 is in the headwaters of this major system which flows north-westerly across the north-eastern part of the Streaky Bay 1:250 000 sheet. The channel sediments are generally coarse quartz sands and gravels and are thought to be equivalent to the Eocene Pidinga Formation.

.../2.





2. EXPLORATION Cont

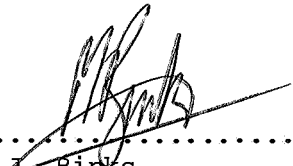
- 2 -

Generally these sediments are in a reduced state, though zones of oxidation related to the tributaries do occur. Traces of uranium have been found and are probably related to the redox interfaces. Traces of uranium mineralisation are also associated with carbonaceous sediments in the overlying Pliocene silts and fine grained sands. These silts and sands are part of a wide-spread fluvial system and may be equivalent to the Loxton Sands.

A series of cross-sections across the palaeochannel are being prepared and will be forwarded with the next Quarterly Report.

3. EXPENDITURE

A statement of expenditure is attached.



.....  
P.A. Binks  
Senior Geologist

LOCATION: 17.5km NNE Minnipa **ROTARY DRILL HOLE LOG**

0023  
RL COLLAR: ...  
A.M.G.: 24100E; 79200N

AIR: FROM: ... TO: ...  
CO-ORDS: ... WATER: FROM: 0 ... TO: 42m ...

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
	0			CLAY & SILCRETE brown
	10			SILCRETED SILT red & yellow
	20			SAND yellow brown, fine grained, well rounded
	30			CLAY grey green
	35	+		CLAY grey white, weathered granite ?
	38	+		
	40	+		
	42	+		
	50			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 575415-575435

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW 1000 LOGGED BY: P. BINKS

DRILLER: W.L. SIDES DATE DRILLED: 25/3/80

SCALE: 1 500 DRG./CODE No:

PROSPECT: PIONEER

# ROTARY DRILL HOLE LOG

0024

LOCATION: 17km NNE Minnipa

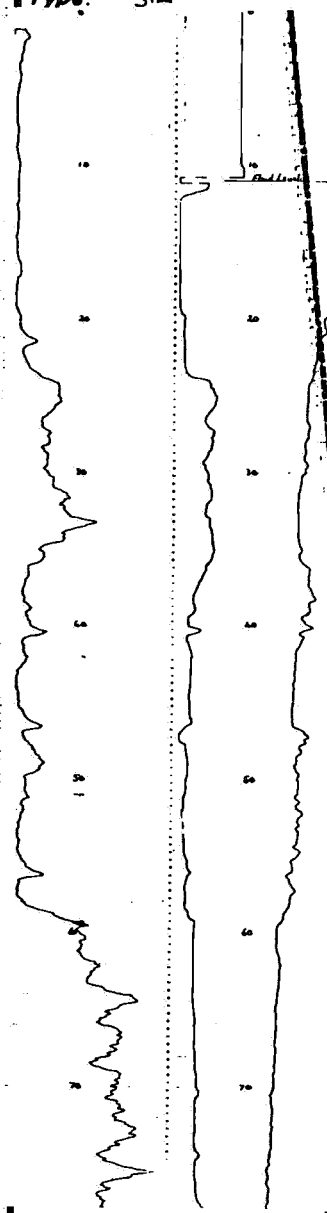
AIR: FROM.....TO.....

RL COLLAR:.....

CO-ORDS:.....

WATER: FROM 0.... TO... 78m....

A.M.G.: 24600E, 78800N.°

Geophysical Log Type: SIE	Depth Metres	Strip Log	Ox	Lithological Log
	0			SAND fine grained, yellow brown, well rounded
	5			SILCRETE SILT, white yellow
	10			SILT white yellow, with silcreted silt bands towards top.
	20			
	30			CLAY blue grey, grey, qtz frags.
	40			SAND & CLAY medium coarse grained, humic staining
	45			SAND 42-50 medium grained
	50			humic stain, pyrite, sub rounded
	55			50-68m coarse grained
	60			54-58m with grey brown clay
	65			60-68m coarse with fine sand as well
	70			CLAY white grey weathered granite
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 575847-575885

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: P. OWEN

OTHER DETAILS:

DRILLER: W. L. SIDES

DATE DRILLED: 25/3/80

SCALE: 1:500

DRG./CODE No:

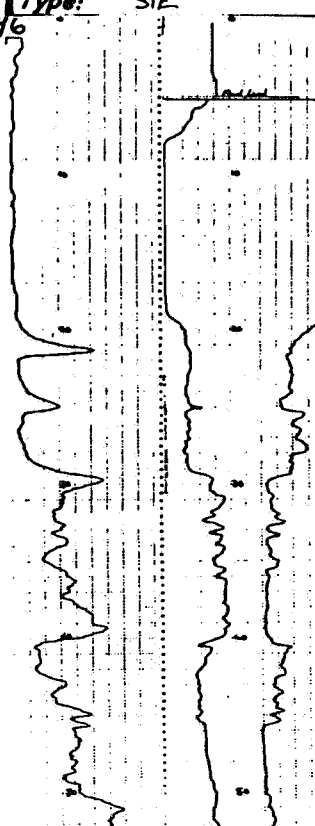
LOCATION: 16km NE Minnipa

## ROTARY DRILL HOLE LOG

0025

CO-ORDS:

AIR: FROM..... TO.....  
WATER: FROM 0..... TO 54m.....R.L. COLLAR:..... m.  
A.M.G.: 24400E77300N...°

Geophysical Log Type: SIE	Depth Metres	Strip Log	Ox	Lithological Log
				SAND fine grained, white yellow, well rounded with calcrete nodules
		Sil		SILT with silcreted silt bands
	10			SAND fine grained, yellow grey, well rounded
	20			
	30			
	40			CLAY blue grey, grey green, with quartz fragments
	45			SAND & CLAY slight humic staining
	48			SAND medium coarse grained, sub rounded, humic staining
	50			CLAY white weathered granite
	55			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 575886-575912

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: P. OWEN

DRILLER: W.L. SIDES

DATE DRILLED: 25/3/80

OTHER DETAILS:

SCALE: 1:500

DRG./CODE No:

LOCATION: 17.5km NE Minnipa

## ROTARY DRILL HOLE LOG

0026

AIR: FROM.....TO.....

RL COLLAR:.....m.

CO-ORDS:.....

WATER: FROM 0 TO 88m

A.M.G.: 2A700E, 77500N °.

Geophysical Log Type: SIE	Depth Metres	Strip Log	Ox	Lithological Log
				SILTY CLAY red brown
	10			SILCRETED SILT yellow & red brown SAND fine grained, well rounded, yellow to red brown
	20			bands carbonaceous clay & silt
	30			CLAY blue grey, with some carbonaceous bands sandy from 38-46m
	40			possibly Eocene from 38-46m
	46			SAND medium to coarse grain, sub angular
	50			humic staining, pyrite
	60			very coarse grained
	70			fine grained to very angular to 74m
	80			humic staining
	90			Sand. - with minor grey clay - ? Granite
	100			HARD
	110			
	120			

SAMPLE Nos: 575461-575503

REASON FOR HOLE:

DRILL TYPE: MAYHEW 100

LOGGED BY: P. BINKS

DRILLER: W.L. SIDES

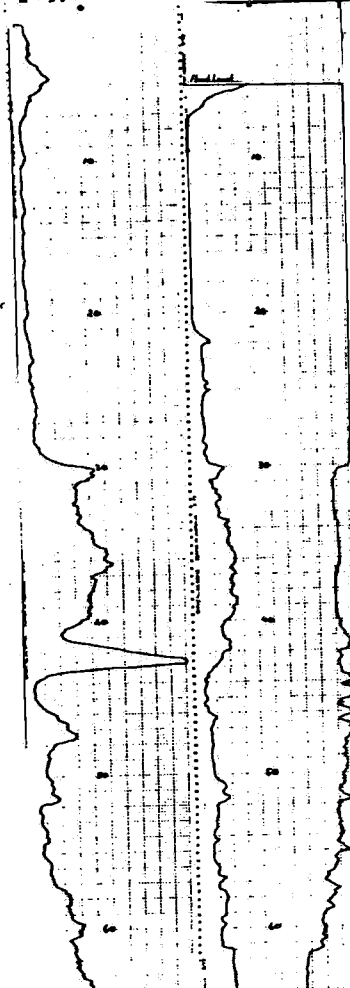
DATE DRILLED: 25/3/80

OTHER DETAILS:

SCALE: 1:500

DRG./CODE No:

PROSPECT: MT. STURT CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE N°IR 198  
LOCATION: 18km NE. Minnipa AIR: FROM.....TO..... RL COLLAR: 0027...T.  
CO-ORDS: WATER: FROM .Q. . . . . TO . . 66m . . . . . A.M.G.: 25500E, 77900N. °.

Geophysical Log Type: SIE	Depth Metres	Strip Log	Ox	Lithological Log
	0			SAND yellow brown, fine grained, well rounded
	5			SILTY CLAY yellow
	10			silcreted silt
	15			SILT yellow red
	20			
	25			
	30			CLAY grey green, grey blue
	35			
	40			SAND & CLAY white grey, sub angular quartz
	45			SAND coarse sub rounded, pyrite, golden yellow
	50			alteration ? in cracks on quartz
	55			humic staining, dark with humic silts
	60			angular to sub angular, medium coarse
	65			with finer sands
	70			CLAY grey white weathered granite
	75			
	80			
	85			
	90			
	95			
	100			
	105			
	110			
	115			
	120			

SAMPLE Nos: 575913-575945

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW 1000

DRILLER: W.L. SIDES

SCALE: 1 500

LOGGED BY: P. OWEN

DATE DRILLED: 26/3/80

DRG./CODE No:

RL COLLAR: 0028...  
A.M.G.: 25200E, 77700N.

AIR: FROM.....TO.....  
WATER: FROM 0.....TO 92m.....

A.M.G.: 25200E, 77700N.

DRILL TYPE: MAYHEW 1000	LOGGED BY: P. BINKS
DRILLER: W.L. SIDES	DATE DRILLED: 26/3/80
SCALE: 1:500	DRG./CODE No:

PROSPECT: MT. STURT CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE NO IR 20029

## ROTARY DRILL HOLE LOG

LOCATION: 18.5km NE Minnipa

CO-ORDS:

AIR: FROM 0 TO 32m  
WATER: FROM 0 TO 32mRL COLLAR: m  
A.M.G. 25600E78300N oGeophysical Log  
Type: SIEDepth  
MetresStrip  
Log

Ox

Lithological Log

SAND fine grained, well rounded, red to yellow brown

bands grey clay

CLAY blue grey

CLAY and partly weathered granite

HARD GRANITE

SAMPLE Nos: 576050-576065

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: P. BINKS

OTHER DETAILS:

DRILLER: W.L. SIDES

DATE DRILLED: 26/3/80

SCALE: 1:500

DRG / CODE No:



PROSPECT: MT. DIORITE/ENTRANCE EXPLORATION COMPANY PTY. LTD. HOLE NO IR 201  
 LOCATION: 15km NE Minnipa ROTARY DRILL HOLE LOG  
 CO-ORDS: AIR: FROM..... TO..... RL COLLAR: 0030m  
 WATER: FROM 0 TO 24m A.M.G.: 25000E, 75100N

Geophysical Log Type: SIE	Depth Metres	Strip Log	Ox	Lithological Log
				SILTY CLAY cream brown CLAY brown & yellow brown
		S		SILCRETE
	10			SAND/SILT fine grained, well rounded grey purple yellow
		+ +		GRANITE, weathered
	20	+ +		
		+		
	30			
	40			
	50			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 576066-576077

REASON FOR HOLE:	DRILL TYPE: MAYHEW1000	LOGGED BY: G.HOOPER
	DRILLER: W.L. SIDES	DATE DRILLED: 26/3/80
	SCALE: 1:500	DRG./CODE No:

OTHER DETAILS:

LOCATION: 15.5km NE Minnipa

AIR: FROM.....TO.....

RL COLLAR: 0031...7.

CO-ORDS: .....

WATER: FROM 0.... TO.... 38m..

A.M.G 25300E, 75400N...9.

Geophysical Log  
Type:Depth  
MetresStrip  
Log

Ox

Lithological Log

SAND yellow brown, fine grained, well rounded  
SILT clayey red

yellow, grey

grey, pinky yellow

SAND medium coarse grained, with fine sand  
little humic staining

CLAY &amp; SAND white grey, weathered granite

HARD - no penetration

120

SAMPLE Nos: 575946-575964

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: P. OWEN

OTHER DETAILS:

DRILLER: W. L. SIDES

DATE DRILLED: 26/3/80

SCALE: 1:500

DRG./CODE No:

PROSPECT: MT. STICKY CARBONIFEROUS EXPLORATION COMPANY P.TY. LTD.

HOLE NO: IN 205

0032

LOCATION: 16km NE Minnipa

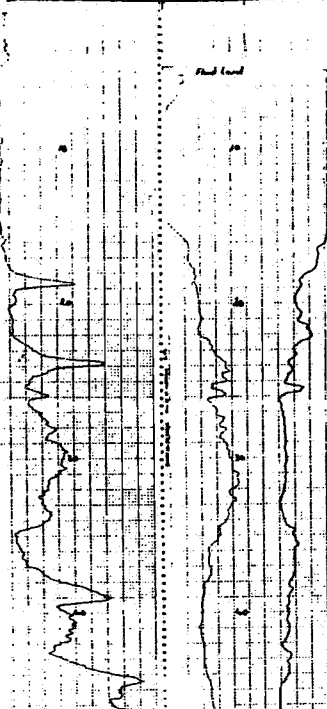
## ROTARY DRILL HOLE LOG

CO-ORDS:

AIR: FROM 0 TO 48m  
WATER: FROM 0 TO 48m

RL COLLAR: 7

A.M.G. 25700E, 75900N 0

Geophysical Log Type: SIE	Depth Metres	Strip Log	Ox	Lithological Log
	10	S		CLAYEY SAND orange red CLAY cream brown SILCRETE SAND very fine grained, rounded quartz grey brown
	20			thin lense black carbonaceous clay
	30			SAND coarse grained, sub rounded quartz, slightly CLAYEY CLAY grey black
	40			black
	50			SAND coarse grained, sub rounded quartz, clayey (grey white)
	60			SAND very coarse grained sub rounded quartz, humic staining
	70			GRANITE
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 576078-576101

REASON FOR HOLE:

DRILL TYPE: MAYHEW 100

LOGGED BY: G. HOOPER

DRILLER: W.L. SIDES

DATE DRILLED: 26/3/80

OTHER DETAILS:

SCALE: 1:500

DRG./CODE No:

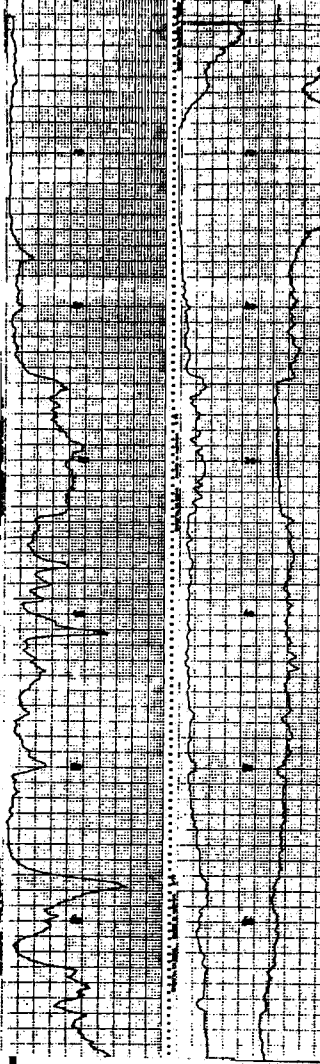











LOCATION: 16.5Km NE Minnipa

## ROTARY DRILL HOLE LOG

CO-ORDS: ..... AIR: FROM.....TO.....  
WATER: FROM...0...TO...70m.....

RL COLLAR: 0033..T.

A.M.G261QQE, 76300N...?

Geophysical Log Type: SIE	Depth Metres	Strip Log	Ox	Lithological Log
			/	SAND very fine grained rounded quartz, orange red
			/	SILT very very fine grained rounded quartz yellow cream
	10		/	SILT white & grey
	20		/	CLAY grey black
	30		/	SAND coarse grained sub rounded & grey white clay
	40		/	SAND very coarse grained, sub rounded quartz much humic staining
	50		/	trace pyrite
	43.08 ppm		/	clayey sand
	36 60 14 6		/	SILT & SAND brown/black carbonaceous - pyritic
			/	SAND medium grained sub rounded minor humic staining trace pyrite.
	70		/	GRANITE coarse grained angular quartz in cream brown clay matrix
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 576102-576138

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: G.HOOPER

DRILLER: W.L. SIDES

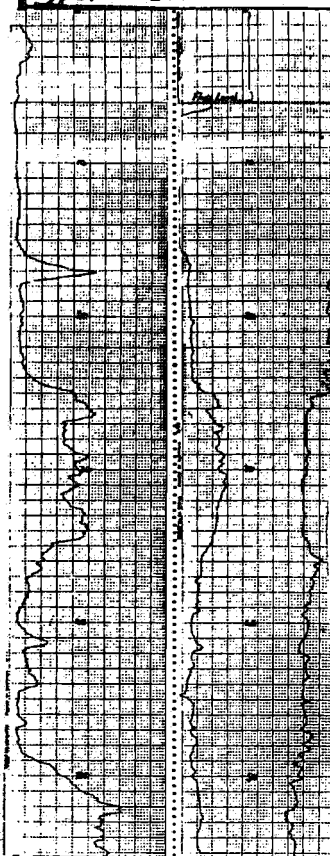
DATE DRILLED: 26/3/80

SCALE: 1:500

DRG./CODE No:

OTHER DETAILS:

PROSPECT: M.L. SIDES CARPENTARIA EXPLORATION COMPANY PTY. LTD. HOLE NO. IR 203  
LOCATION: 17km NE Minnipa 0034  
CO-ORDS: AIR: FROM.....TO..... RL COLLAR:.....  
WATER: FROM 0 TO 57m A.M.G: 26300E, 76500N

Geophysical Log Type: SIE	Depth Metres	Strip Log	Ox	Lithological Log
	0	.....	/	SAND fine grained, yellow brown, well rounded
	1	.....	/	SILCRETE silcreted silts
	2	.....	/	SILT
	3	.....	/	
	4	.....	/	
	5	.....	/	
	6	.....	/	
	7	.....	/	
	8	.....	/	
	9	.....	/	
	10	.....	/	with silcreted silt bands
	11	.....	/	yellow red & whites
	12	.....	/	
	13	.....	/	well rounded
	14	.....	/	
	15	.....	/	grey yellow
	16	.....	/	CLAY blue grey increase in quartz fragments
	17	.....	/	
	18	.....	/	
	19	.....	/	
	20	.....	/	
	21	.....	/	SAND & CLAY pyrite, slight humic staining
	22	.....	/	
	23	.....	/	
	24	.....	/	
	25	.....	/	
	26	.....	/	
	27	.....	/	
	28	.....	/	
	29	.....	/	
	30	.....	/	
	31	.....	/	SAND medium coarse grained, sub rounded, sub
	32	.....	/	angular humic staining, pyrite, humic silts
	33	.....	/	with fine sands.
	34	.....	/	
	35	.....	/	
	36	.....	/	
	37	.....	/	
	38	.....	/	
	39	.....	/	
	40	.....	/	
	41	.....	/	CLAY with quartz, grey white weathered granite
	42	.....	/	
	43	.....	/	
	44	.....	/	
	45	.....	/	
	46	.....	/	
	47	.....	/	
	48	.....	/	
	49	.....	/	
	50	.....	/	
	51	.....	/	HARD band
	52	.....	/	
	53	.....	/	
	54	.....	/	
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	120	.....	/	

SAMPLE Nos: 575965-575993

REASON FOR HOLE:  OTHER DETAILS:	DRILL TYPE: MAYHEW1000	LOGGED BY: P.OWEN
	DRILLER: W.L. SIDES	DATE DRILLED: 26/3/80
	SCALE: 1:500	DRG./CODE No:

PROSPECT: ...  
 LOCATION: 17.5km NE Minnipa  
 CO-ORDS: ...  
 ROTARY DRILL HOLE LOG  
 AIR: FROM ... TO ...  
 WATER: FROM 0 ... TO 48m ...  
 RL COLLAR: 0035m  
 A.M.G.: 27100E, 75900N

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
				SAND yellow red, fine grained, well rounded
				SILT white, yellowy grey
	10			
				CLAY blue grey
	20			SAND 16-22m with blue green clay, clean sand sub rounded
				CLAY& SAND
				CLAY grey, grey blue
	30			SAND & CLAY clean sand, sub round coarse coarse, trace pyrite
				SAND coarse, minor pyrite, sub rounded, humic staining, medium to coarse with carbonaceous clay (black brown)
	40			
				CLAY & SAND grey white, weathered granite
	50			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

576507-576517  
 SAMPLE Nos: 575994-576006

REASON FOR HOLE:	DRILL TYPE: MAYHEW 1000	LOGGED BY: P. OWEN
OTHER DETAILS:	DRILLER: W.L. SIDES	DATE DRILLED: 26/3/80
	SCALE: 1:500	DRG./CODE No:

RL COLLAR: 0036  
AMG:

DRG./CODE No.:

LOCATION: 14.5km NE Minnipa

## ROTARY DRILL HOLE LOG

AIR: FROM..... TO.....

RL COLLAR: 0037

CO-ORDS: .....

WATER: FROM 0 TO 74m

A.M.G: 25800E, 73300N.?

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
				SILTY CLAY cream brown
				SILCRETE & SILTY CLAY yellow green
	10			SILCRETE
				CLAY grey white
				SILT
	20			SAND very fine grained rounded quartz
	30			
	40			CLAY grey green and grey
	42			SAND coarse grained sub rounded quartz much humic staining
	44			SANDY CLAY black clay matrix
	50			SAND whitish very coarse grained sub rounded quartz
	52			trace brown humic? staining
	54			(may be very slightly altered)
	60			
	62			minor yellow oxidation
	64			trace red hem.oxidation(irridescent)
	66			lense dark brownish CLAY
	68			much (5%) pyrite
	70			GRANITE coarse grained angular quartz in cream brown clay matrix
	72			
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 576182-576218

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: G. HOOPER

OTHER DETAILS:

DRILLER: W.L. SIDES

DATE DRILLED: 27/3/80

SCALE: 1:500

DRG./CODE No:



LOCATION: 14.5km NE Minnipa

## ROTARY DRILL HOLE LOG

AIR: FROM..... TO.....

RL COLLAR: 0038 m

CO-ORDS: .....

WATER: FROM 0 TO 80m

AM G25900E, 73700N

## Geophysical Log

Type: Geopex

Depth  
MetresStrip  
Log

Ox

Lithological Log

SAND with clay & calcrete nodules, fine grained  
yellow brownSILTY CLAY with silcreted silt bands, red white  
silcrete, greeny grey

CLAY green grey

SILT well rounded with minor silcreted silts,  
yellow white & greys

24-38m with pale grey clay

SAND clean round to sub rounded, medium grained  
greeny grey clayCLAY & SAND grey blue with sands similar to above  
CLAY dark grey blueCLAY & SAND medium sand, sub rounded  
sand clean, poorly sorted, med gr with minor  
clay

CLAY grey greeny brown

SAND clean, sub rounded, poorly sorted to coarse  
grained size.gravelly, humic staining, poorly sorted  
sub rounded to sub angular,  
pyritic with minor brown cream  
humic claysCLAY grey white, weathered granite  
HARD granite

SAMPLE Nos: 576518-576557

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: P. OWEN

OTHER DETAILS:

DRILLER: W.L. SIDES

DATE DRILLED 27/3/80

SCALE: 1 500

DRG./CODE No:

PROSPECT: 15km NE Minnipa

# ROTARY DRILL HOLE LOG

LOCATION: 15km NE Minnipa

AIR: FROM..... TO.....

RL COLLAR: 0039

CO-ORDS: .....

WATER: FROM...0... TO...84m....

AMG:26100E,73900N...°

Geophysical Log Type: Geoelectrical	Depth Metres	Strip Log	Ox	Lithological Log
	0			SAND fine grained, well rounded, yellow brown
	5			SILTY CLAY yellow brown
	10			SILT with silcreted silt bands reds, whites, yellow brown well rounded
	20			
	30			with blue grey clay
	40			CLAY blue grey increase in silt darker blue grey
	50	P	?	SAND with brown humic clay relatively clean sand, medium grained, poor sorting with pale brown clay with dark humic clays
	60	P		
	70	P		humic staining, coarse grained to gravelly pyritic, sub rounded to sub angular with dark humic clays slightly oxidised
	80	+		CLAY grey white, weathered granite
	90			
	100			
	110			
	120			

SAMPLE Nos: 576558-576599

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: P.OWEN

OTHER DETAILS:

DRILLER: W.L. SIDES

DATE DRILLED: 27/3/80

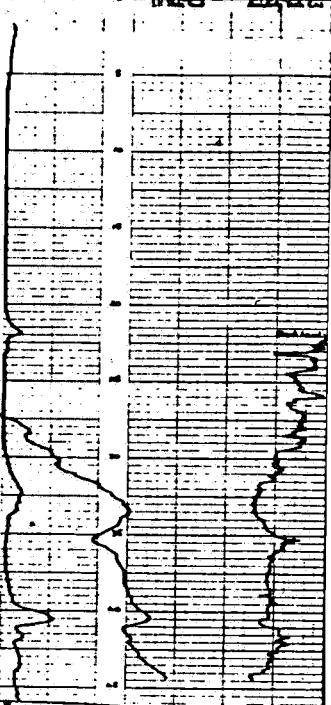
SCALE: 1:500

DRG./CODE No:

PROSPECT: 14.5km NE Minnipa **ROTARY DRILL HOLE LOG**

LOCATION: 14.5km NE Minnipa  
 CO-ORDS: AIR: FROM: TO: WATER: FROM: 0 TO 48m

RL COLLAR: 0040  
 AMG 25400E, 73200N

Geophysical Log Type: Geoelectrical	Depth Metres	Strip Log	Ox	Lithological Log
				SILTY CLAY yellow brown, fine grained, well rounded
				SILT with silcreted silt bands
				well rounded, from brown reds to yellow grey
	10			
	20			with blue grey clay
	30			SAND very clean, medium grained, sub angular, oxidised grains, some yellow and red
				CLAY blue green and creamy
	40			SAND clean, with green creamy clays and yellowy orange silts
				medium grained, mild humic staining
				some pyrite
				CLAY grey white, weathered granite
	50			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 576600-576623

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW 1000	LOGGED BY: P. OWEN
DRILLER: W.L. SIDES	DATE DRILLED: 28/3/80
SCALE: 1:500	DRG./CODE No:

PROSPECT: Mt. Siuna

## ROTARY DRILL HOLE LOG

LOCATION: 14km NE Minnipa

0041

CO-ORDS:

AIR: FROM

TO

RL COLLAR:

WATER: FROM

0

TO

52m

A.M.G. 25000E, 73000N

Geophysical Log Type: Geoelect	Depth Metres	Strip Log	Ox	Lithological Log
				KUNKAR
				SANDY SILT light brown
				SAND/SILT fine grained, rounded and cemented
	10			SAND very fine grained, rounded quartz whitish
	20			
	20	U <sub>3</sub> O <sub>8</sub> ppm		
	<4			SAND lenses black carbonaceous clay
	<4			
	30			SANDY CLAY greyish
	6			SAND medium grained, sub rounded quartz, fragments carbonaceous
	12			
	40			humic staining
	50	+ +		GRANITE grey brown clay with coarse grain angular quartz
		+ +		
	60			
	70			
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 576219-576245

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: G.HOOPER

DRILLER: W.L. SIDES

DATE DRILLED: 28/3/80

OTHER DETAILS:

SCALE: 1:500

DRG./CODE No:

LOCATION: 13km NE Minnipa

# ROTARY DRILL HOLE LOG

HOLE N. 1R 213

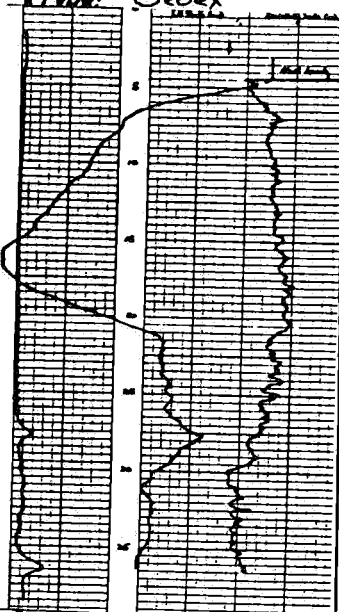
0042

RL COLLAR: .....

A.M. 624700E, 72700N

CO-ORDS: .....

AIR: FROM.....TO.....  
WATER: FROM.....O.....TO.....40m.....

Geophysical Log Type: Georex	Depth Metres	Strip Log	Ox	Lithological Log
				KUNKAR
				SILCRETED SAND
				SILT/SAND very fine grained rounded quartz grey white
	10			
	20			
	30			lenses black carbonaceous CLAY
				SANDY CLAY grey black
				CLAYEY SAND coarse grained sub rounded quartz grey white colour
				SAND coarse grained sub rounded quartz, humic
				GRANITE coarse grained staining
	40			angular quartz in brown clay matrix
	50			
	60			
	70			
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 576246-576266

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: G. HOOPER

OTHER DETAILS:

DRILLER: W.L. SIDES

DATE DRILLED: 28/3/80

SCALE: 1 500

DRG./CODE No:

PROSPECT: 16.5km ENE Minnipa **ROTARY DRILL HOLE LOG**  
 LOCATION: ..... AIR: FROM ..... TO ..... RL COLLAR: ... 0043.  
 CO-ORDS: ..... WATER: FROM 0 TO 46m ... A.M.G: 296Q0E, 73400N.°.

Geophysical Log Type:	Depth Metres	Strip Log	Ox	Lithological Log
NO LOG				SAND fine grained, well rounded, yellow brown
				SILTY CLAY red brown
		Sil.		SILCRETE silcreted silt, whites & reds
	10			SILT yellow brown, minor silcreted silt bands
				grey yellow with carbonaceous silt bands
	20			
	30			CLAY blue grey, grey green
				creamy grey
	40			very hard band-chips suggest silcrete rock bit used - hole abandoned due to cave-in
	50			
	60			
70				
80				
90				
100				
110				
120				

**SAMPLE Nos:** 576624- 576646

REASON FOR HOLE:	DRILL TYPE: MAYHEW 1000	LOGGED BY: P.OWEN
	DRILLER: W.L. SIDES	DATE DRILLED: 28/3/80
	SCALE: 1 500	DRG./CODE No:
OTHER DETAILS:		

PROSPECT: 16km ENE Minnipa

# ROTARY DRILL HOLE LOG

CO-ORDS: .....

AIR: FROM..... TO.....  
WATER: FROM... 0. TO... 90m.....

RL COLLAR: 0044  
A.M.G: 29100E, 73000N

Geophysical Log Type: Geox	Depth Metres	Strip Log	Ox	Lithological Log
	0			CALC SILT cream brown
	5			SILCRETE & SILT white and yellow
	10			SILT/SAND very fine grained rounded quartz white & yellow
	15			
	20			
	25			
	30			CLAY grey green
	35			
	40			grey grey white
	45			
	50			SAND coarse grained sub rounded quartz, fairly CLAY grey green clean
	55			SAND humic staining and pyrite coarse grained sub rounded quartz
	60			CLAY brown black
	65			
	70			SAND coarse grained sub rounded quartz pyritic with humic staining
	75			
	80			GRANITE
	85			
	90			
	95			
	100			
	105			
	110			
	115			
	120			
	125			
	130			
	135			
	140			
	145			

SAMPLE Nos: 576267-576311

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW 1000

DRILLER: W.L. SIDES

SCALE: 1:500

LOGGED BY: G.HOOPER

DATE DRILLED: 28/3/80

DRG./CODE No:

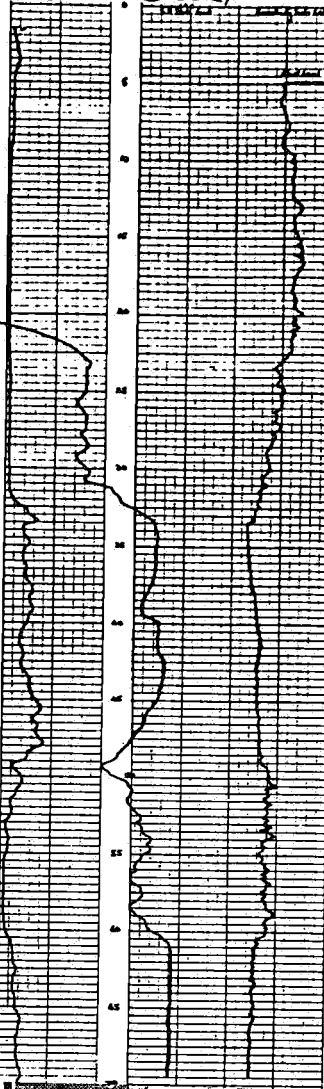
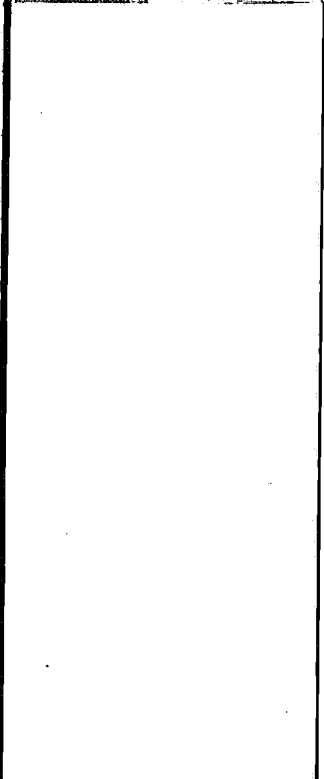
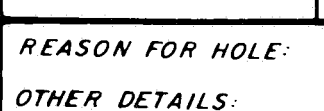
LOCATION: 16km ENE Minnipa

# ROTARY DRILL HOLE LOG

CO-ORDS: .....

AIR: FROM..... TO.....  
WATER: FROM..... 0 TO..... 72m

RL COLLAR: .....  
AMG 28700E, 72700N 15°

Geophysical Log Type: Geox	Depth Metres	Strip Log	Ox	Lithological Log
	0			SILTY CLAY calcrete nodules
	5			well rounded silt, yellow reds & browns
	10			silcrete nodules
	15			SILT reds & yellow browns
	20			
	25			Yellows & grey yellow with minor humic silts
	30			CLAY greeny blue grey
	35			
	40			creamy grey blues
	45			
	50			SANDY CLAY medium grained sand with creamy clay
	55			SAND with cream brown clays, poorly sorted
	60			coarse grained sub angular to sub rounded pyrite
	65			medium grained with abundant cream clay
	70			CLAY grey white weathered granite
	75			gravelly
	80			
	85			
	90			
	95			
	100			
	105			
	110			
	115			
	120			
	125			
	130			
	135			
	140			
	145			

SAMPLE Nos: 576647-576682

REASON FOR HOLE:

OTHER DETAILS:

DRILL TYPE: MAYHEW 1000

DRILLER: W.L. SIDES

SCALE: 1:500

LOGGED BY: P.OWEN

DATE DRILLED: 28/3/80

DRG./CODE No:



PROSPECT: MT. STURT CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE NO IR 217


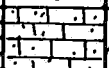


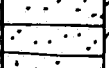

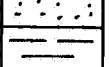

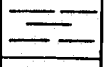
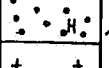
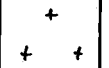
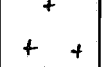

LOCATION: 18km ENE Minnipa

ROTARY DRILL HOLE LOG

CO-ORDS: .....

AIR: FROM..... TO.....  
WATER: FROM 0 TO 54m

RL COLLAR: 0046m  
A.M.G 29500E, 74300N

Geophysical Log Type: Geoelex	Depth Metres	Strip Log	Ox	Lithological Log
				KUNKAR & SANDY SOIL
				SAND very fine grained, rounded quartz
				pale orange brown-white
				yellow
				brown black
				lenses black carbonaceous CLAY
				CLAY grey & grey green
				
			?	SAND coarse grained sub rounded quartz
				weak humic staining
				GRANITE coarse grained angular quartz in
				cream brown clay matrix
	60			
	70			
	80			
	90			
	100			
	110			
	120			

SAMPLE Nos: 576312-576338

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: G.HOOPER

DRILLER: W.L. SIDES

DATE DRILLED: 29/3/80

OTHER DETAILS:

SCALE: 1:500

DRG / CODE No:

PROSPECT: MT. STURT CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE N<sup>o</sup> IR 229

LOCATION: 19.5km ENE Minnipa

## ROTARY DRILL HOLE LOG

CO-ORDS:

AIR: FROM.....TO.....

RL COLLAR: 0047...m

WATER: FROM 0.....TO.....36m...

A.M.G.: 32900E, 70700N

Geophysical Log  
Type: GeoxDepth  
MetresStrip  
Log

Ox

Lithological Log

GYP.SAND cream

CLAY green brown and black

SAND very fine grained, rounded quartz grey

CLAY black

CLAY grey green, minor purplish

SANDY CLAY grey white, medium to coarse grained  
quartz, oxidised

GRANITE

SAMPLE Nos: 576941-576958

REASON FOR HOLE:

DRILL TYPE: MAYHEW 1000

LOGGED BY: P.OWEN

DRILLER: W.L. SIDES

DATE DRILLED: 31/3/80

OTHER DETAILS:

SCALE: 1:500

DRG./CODE No:

PROSPECT: MT. STURT CARPENTARIA EXPLORATION COMPANY PTY. LTD.

HOLE N<sup>o</sup> IR 247

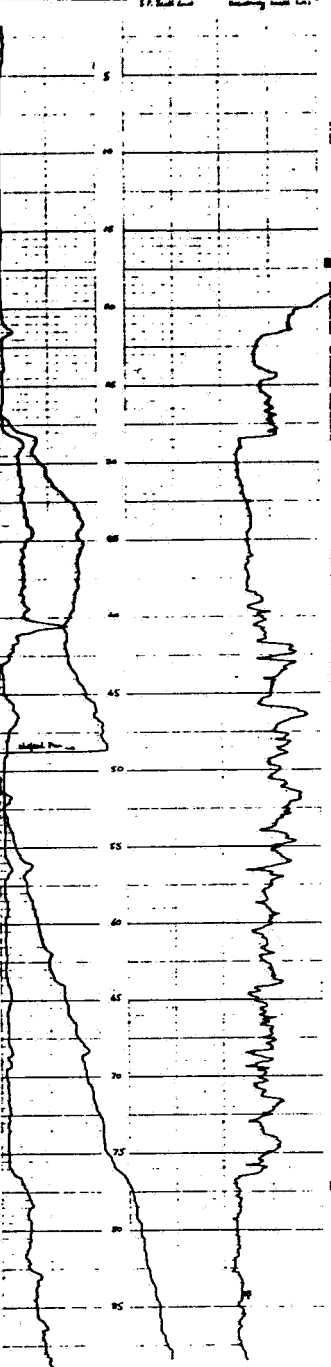
LOCATION: 18km NE Minnipa

## ROTARY DRILL HOLE LOG

0048

CO-ORDS: .....

AIR: FROM..... TO.....  
WATER: FROM 0 TO 92m...RL COLLAR: .....  
A.M.G.: 25200E, 77700N.?

Geophysical Log Type: Geox	Depth Metres	Strip Log	Ox	Lithological Log
				SILTY CLAY red brown, fine grained, well rounded SILCRETE silcreted silt
				SILT minor silcrete bands 6-24m red brown
	10			
	20			well rounded 24-31m grey yellow brown
	30			CLAY blue grey increase in sand
	40			SANDY CLAY pale blue grey, clean sub rounded sa
	45			SAND medium grained, poorly sorted, with cream brown clays sub rounded quartz
	50			
	55			
	60			SAND coarse grained gravelly towards base, minor pyrite humic staining, sub rounded quartz
	65			
	70			SAND medium grained, gravelly towards base, pyritic humic staining, sub rounded quartz
	75			
	80			SAND with white clay matrix, GRANITE
	90			
	100			
	110			
	120			

SAMPLE Nos: 577633-577678

REASON FOR HOLE: To check for extensions  
of mineralisation found  
in IR199  
OTHER DETAILS: 100m 58° from IR 199

DRILL TYPE: MAYHEW 1000

LOGGED BY: P. OWEN

DRILLER: W.L. SIDES

DATE DRILLED: 2/4/80

SCALE: 1:500

DRG./CODE No:

LOCATION: 18km NE Minnipa

# ROTARY DRILL HOLE LOG

0049

AIR: FROM.....TO.....

RL COLLAR:.....

CO-ORDS:.....

WATER: FROM...O...TO...88m....

A.M.G.:25200E,77700N..°.

Geophysical Log  
Type: *Geox*

Depth  
Metres

Strip  
Log

Ox

Lithological Log

SILTY CLAY brown

SILT very very fine grained rounded quartz  
pale red, yellowish

SILT/SAND very fine grained rounded quartz  
grey white, lenses black carb.silt  
CLAY grey green

CLAY grey white  
SANDY CLAY light blue grey

SAND very coarse grained sub rounded quartz  
trace pyrite, clean, very slight trace  
oxidation?

SAND very coarse grained, sub rounded quartz  
minor red brown, humic staining, may be  
altered  
trace pyrite  
medium to coarse grained, appear slightly  
oxidised.

SAND very coarse grained, humic staining  
gravelly up to 1 cm.

GRAVEL? clear quartz sub angular to 1 cm  
GRANITE?  
with aggregates of pyrite  
white clay matrix

HARD

SAMPLE Nos: 577060-577102

REASON FOR HOLE: To check for extensions of  
minerals found in IR 199

OTHER DETAILS: 100m on 238M from IR 199

DRILL TYPE: MAYHEW 1000

DRILLER: W.L. SIDES

SCALE: 1:500

LOGGED BY: G.HOOPER

DATE DRILLED 2/4/80

DRG./CODE No:

LOCATION: 18km NE Minnipa  
CO-ORDS: .....

# ROTARY DRILL HOLE LOG

AIR: FROM.....TO.....  
WATER: FROM...0...TO...90m....

RL COLLAR: 0050..T  
A.M.G. 25200E, 77700N..°.

Geophysical Log Type: GGOEX	Depth Metres	Strip Log	Ox	Lithological Log
				SILTY CLAY red brown, fine grained, well rounded
		Sil.		SILCRETE silcreted silt, red brown
				SILT 6-12m olive green grey
	10			12-16m grey white
				16-27m grey blue with minor carbonaceous silt bands.
	20			
				CLAY blue grey
	30			
	U <sub>3</sub> O <sub>8</sub> ppm			SANDY CLAY sub rounded clean sand, light blue grey clay
	<4			SAND gravelly, minor pyrite, sub rounded quartz
	40			
	<4			SAND medium to coarse grained, sub rounded grey minor pyrite, with silcreted silt fragments. cream brown clays
	<4			
	<4			SAND very coarse grained, sub rounded quartz, minor pyrite
	50			
	<4			
	<4			
	<4			
	60			SAND medium to coarse grained, sub rounded quartz humic staining with minor gravelly beds, minor pyrite and wood chips
	4			
	4			
	<4			
	<4			
	70			SAND very coarse grained, sub rounded quartz, gravelly towards base
	4			
	6			
	4			
	<4			SAND gravelly, cleaner than before
	80			
	<4			
	6			
	<4			
	90			GRANITE hard
	100			
	110			
	120			

SAMPLE Nos: 577679-577723

REASON FOR HOLE: To check for extensions of minerals<sup>n</sup> found in IR199  
OTHER DETAILS: 100m on a bearing of 148°

DRILL TYPE: MAYHEW 1000  
DRILLER: W.L. SIDES  
SCALE: 1:500  
LOGGED BY: P.OWEN  
DATE DRILLED: 2/4/80  
DRG./CODE No:

## ROTARY DRILL HOLE LOG

LOCATION: 18km NE Minnipa

AIR: FROM.....TO.....

RL COLLAR:.....m.

CO-ORDS:.....

WATER: FROM 0 TO 84m

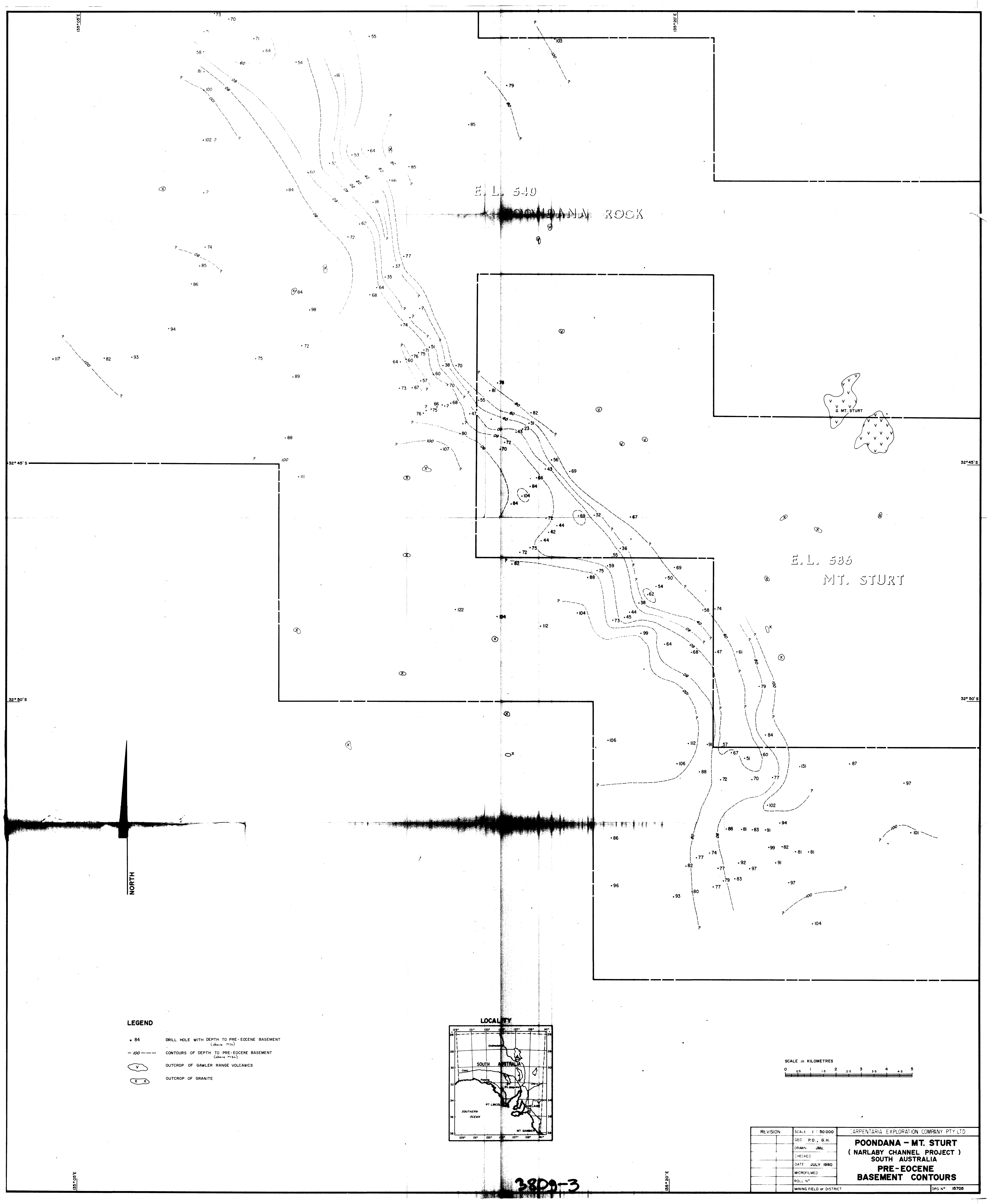
A.M.G: 25200E, 77700N. °

Geophysical Log Type: <i>Geox</i>	Depth Metres	Strip Log	Ox	Lithological Log	0051
				CALCAREOUS SANDY SOIL	
		Sil.		SILCRETE	
	10			SILT/SAND very fine grained rounded quartz, brownis	
	20				
	30			CLAY grey green	
	30	U <sub>3</sub> O <sub>8</sub> ppm			
	30			CLAY light blue grey, sandy towards bottom	
	40				
	40				
	40			SAND very coarse grained sub rounded quartz, clean, pyritic	
	50				
	50			lenses blue grey CLAY	
	60				
	60			GRAVELLY SAND very coarse grained rounded quartz to 10mm	
	70				
	70			SAND medium grained sub rounded quartz, much humic staining	
	80			GRAVELLY SAND very coarse grained rounded quartz humic staining, lense of brown SILT/CLAY	
	80			SAND coarse grained sub rounded quartz, humic staining, pyritic	
	90				
	90			GRANITE very coarse grained angular quartz in creamy brown clay matrix	
	100				
	110				
	120				

SAMPLE Nos: 577103-577144

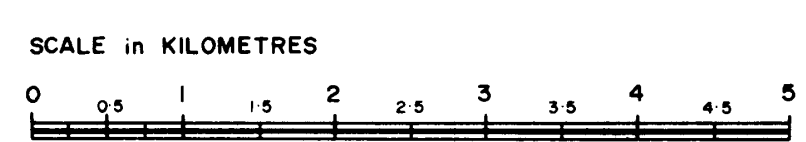
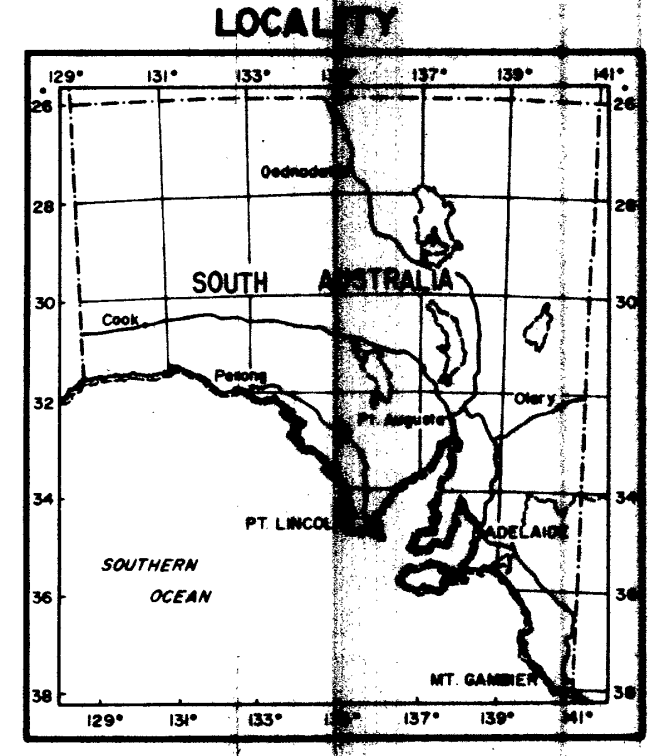
REASON FOR HOLE: To check extensions of mineralisation found in IR  
OTHER DETAILS: 100m 338° from IR 199, 199

DRILL TYPE: MAYHEW 1000  
DRILLER: W.L. SIDES  
SCALE: 1:500  
LOGGED BY: G.HOOPER  
DATE DRILLED: 3/4/80  
DRG./CODE No:



LEGEND

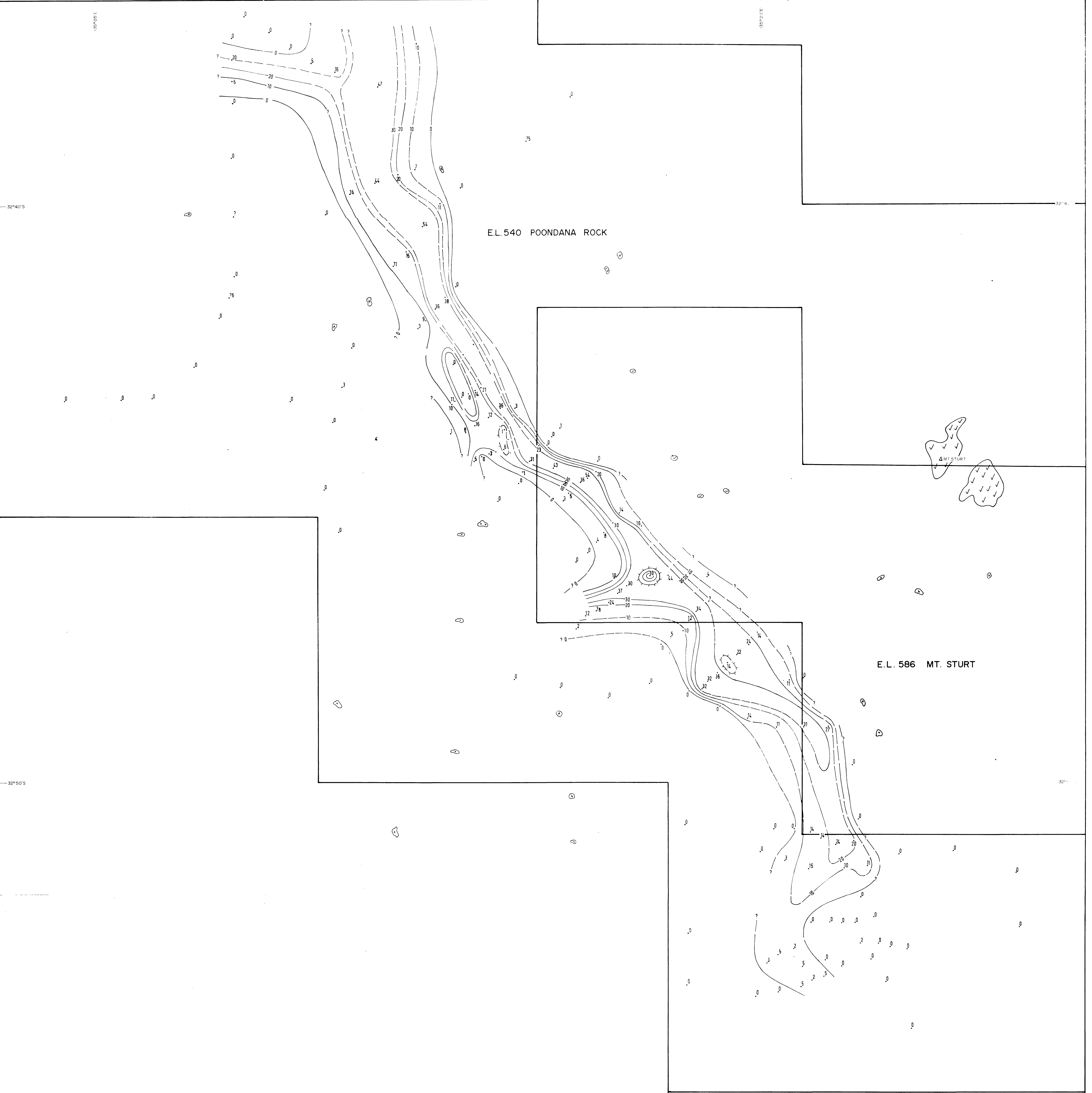
- 84 DRILL HOLE WITH DEPTH TO PRE-EOCENE BASEMENT (above 7150)
- - - - - CONTOURS OF DEPTH TO PRE-EOCENE BASEMENT (above 7150)
- (V) OUTCROP OF GAWLER RANGE VOLCANICS
- (X) OUTCROP OF GRANITE



REVISION	SCALE 1 : 50 000	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO. P.O., G.H.	
	DRAWN J.Mc.	
	CHECKED	
	DATE JULY 1980	
	MICROFILMED	
	ROLL N°	
	MINING FIELD or DISTRICT	
		ORG. N° 18705

**POONDANA - MT. STURT**  
(NARLABY CHANNEL PROJECT)  
SOUTH AUSTRALIA  
**PRE-EOCENE BASEMENT CONTOURS**

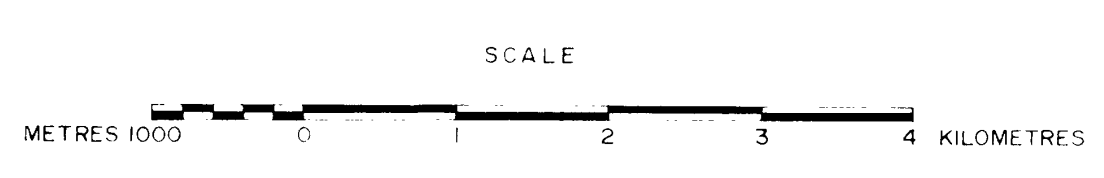
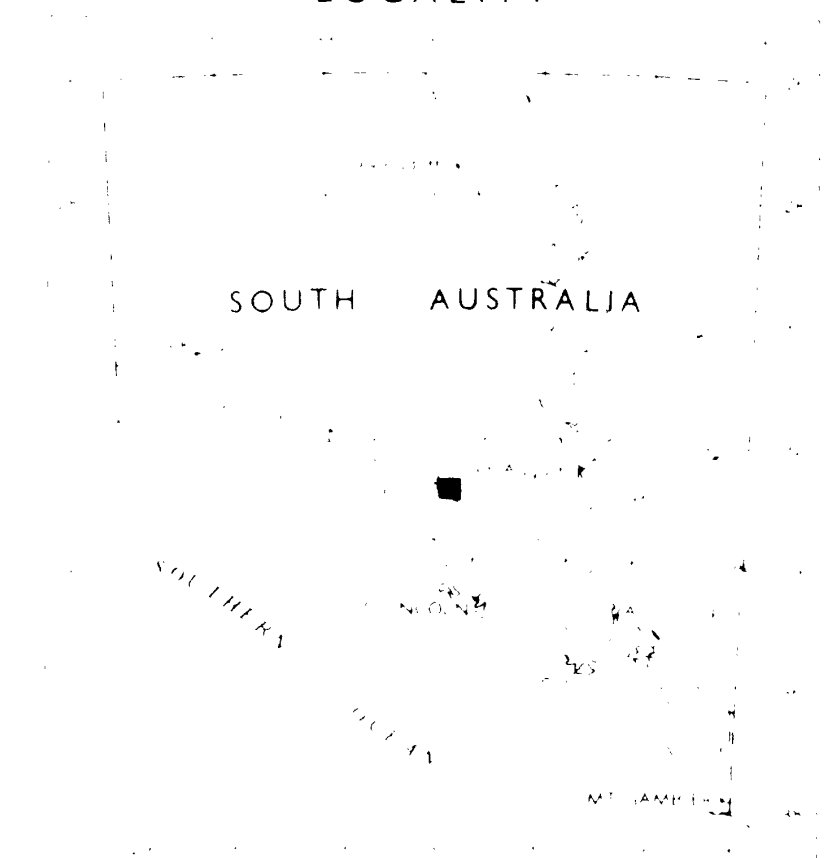
3801-3



LEGEND

- Drill hole with thickness of Eocene sediments..... 10
- Isopachs of Eocene sediments in metres..... 10
- Outcrop of Gawler Range Volcanics..... 10
- Outcrop of granite..... 10

LOCALITY



REVISION	SCALE 1:50 000	SPRINGFIELD EXPLORATION COMPANY PTY. LTD.
DEC. 80	G.M. P.B.	POONDANA — MT. STURT
JUN. 81	G.M.	(NARLABY CHANNEL PROJECT)
DATE	JUNE 1980	SOUTH AUSTRALIA
REVISION		ISOPACHS OF EOCENE SEDIMENTS
REV. NO.		
MINING FIELD or DISTRICT	NARLABY CHANNEL — STH. AUST.	SPR. NO. 15689

3809-4



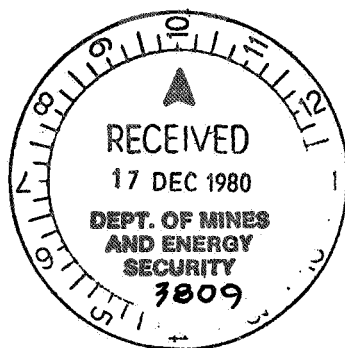
# **CARPENTARIA EXPLORATION COMPANY PTY. LTD.**

## **M I N I N G    T E N E M E N T**

## **P R O G R E S S    R E P O R T**

EXPLORATION LICENCE NO.586 "MT. STURT"

REPORT FOR QUARTER ENDED NOVEMBER 19, 1980



**DATE:** November, 1980

**COPY:** Department of Minerals  
and Energy

EXPLORATION LICENCE NO. 586 "MT. STURT"

PROGRESS REPORT FOR QUARTER ENDED NOVEMBER 19, 1980

1. TERMS AND CONDITIONS

The Exploration Licence is located approximately 220 kms west of Port Augusta and covers an area of 346 km<sup>2</sup>. The Licence was granted for a term of one year commencing on February 20, 1980 with an expenditure requirement of \$20 000.

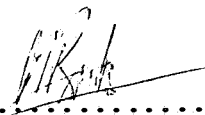
2. EXPLORATION

A series of sections across the palaeochannel have been completed and are presented as Drawing Nos. 15708, 15709 and 15710. The location of the cross-sections is shown on Drawing No. 15714.

No field work was done on the area during the quarter. It is anticipated that further open hole rotary drilling will be carried out early next year when a drill rig becomes available.

3. EXPENDITURE

A statement of expenditure is attached.

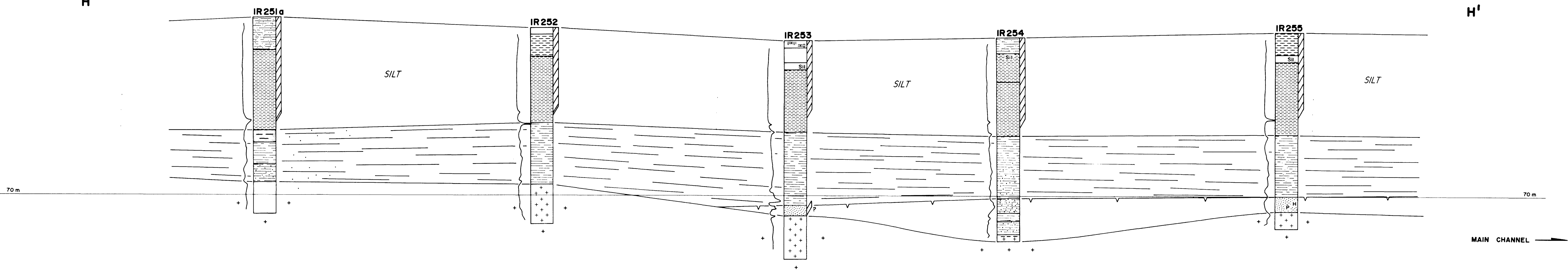
  
.....  
for G.J. Hooper  
Project Geologist

WEST

EAST

H

H'

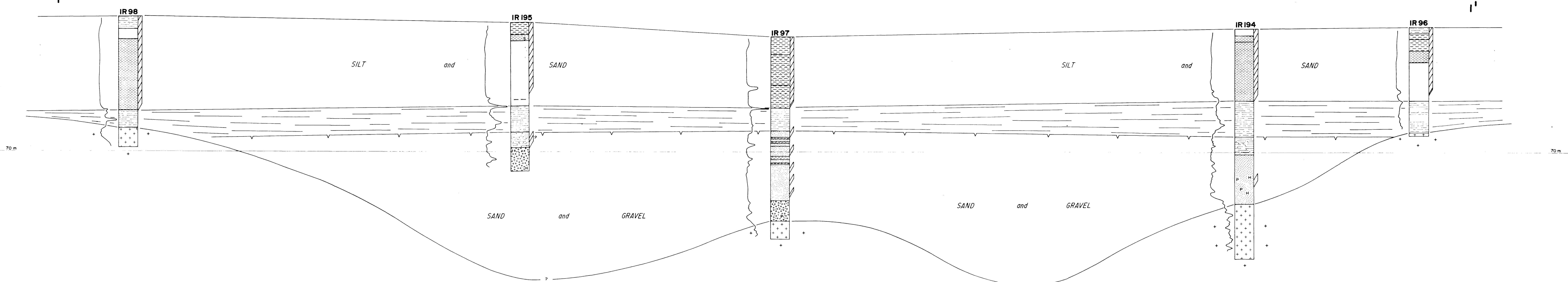


SOUTH-WEST

NORTH-EAST

I

I'

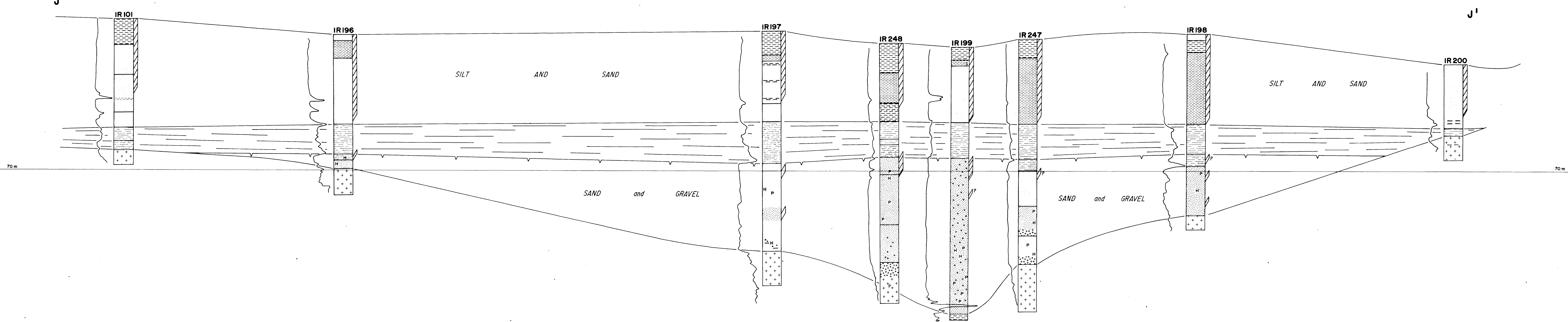


SOUTH-WEST

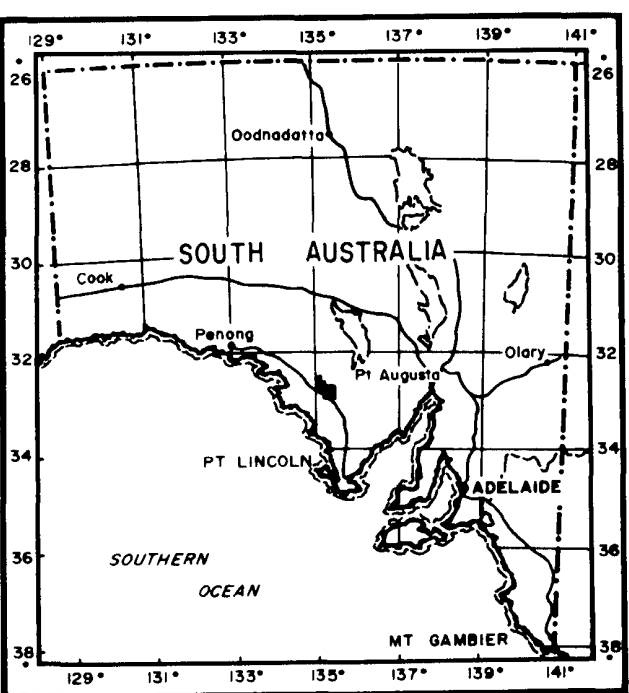
NORTH-EAST

J

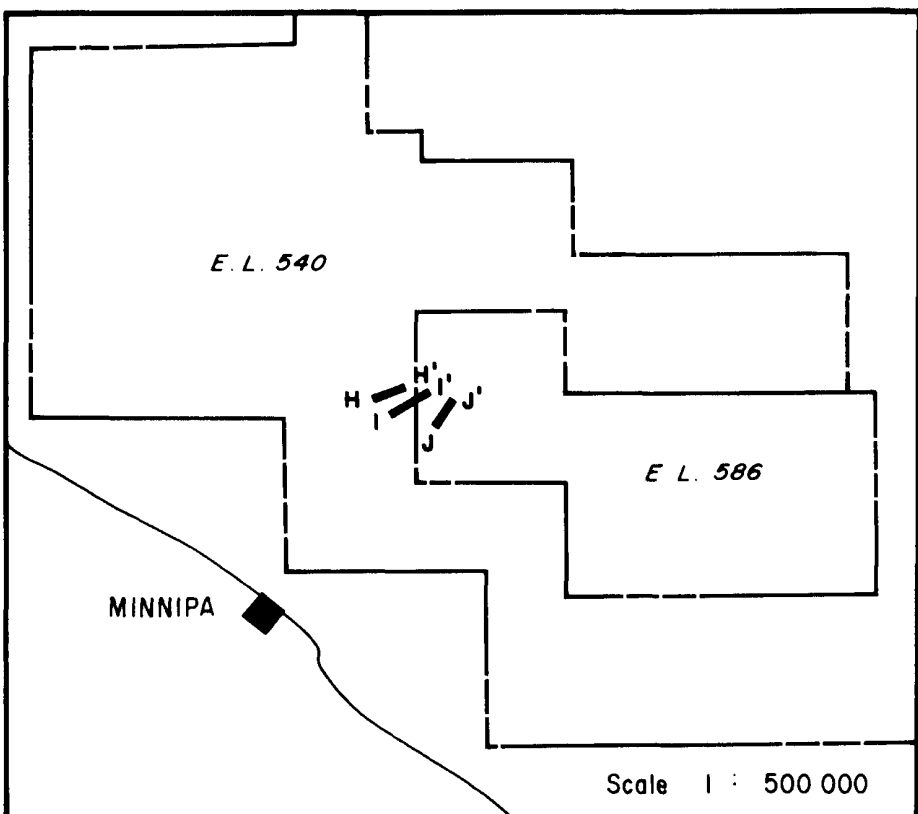
J'



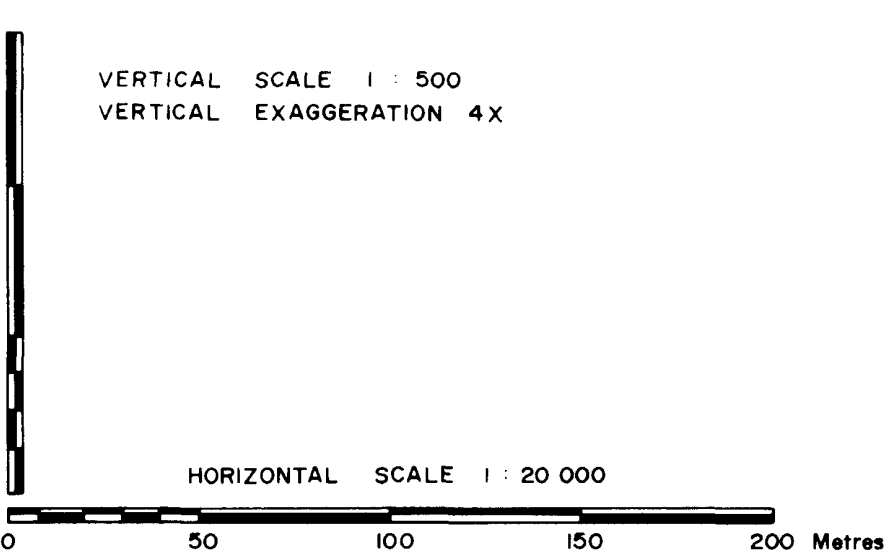
LOCALITY



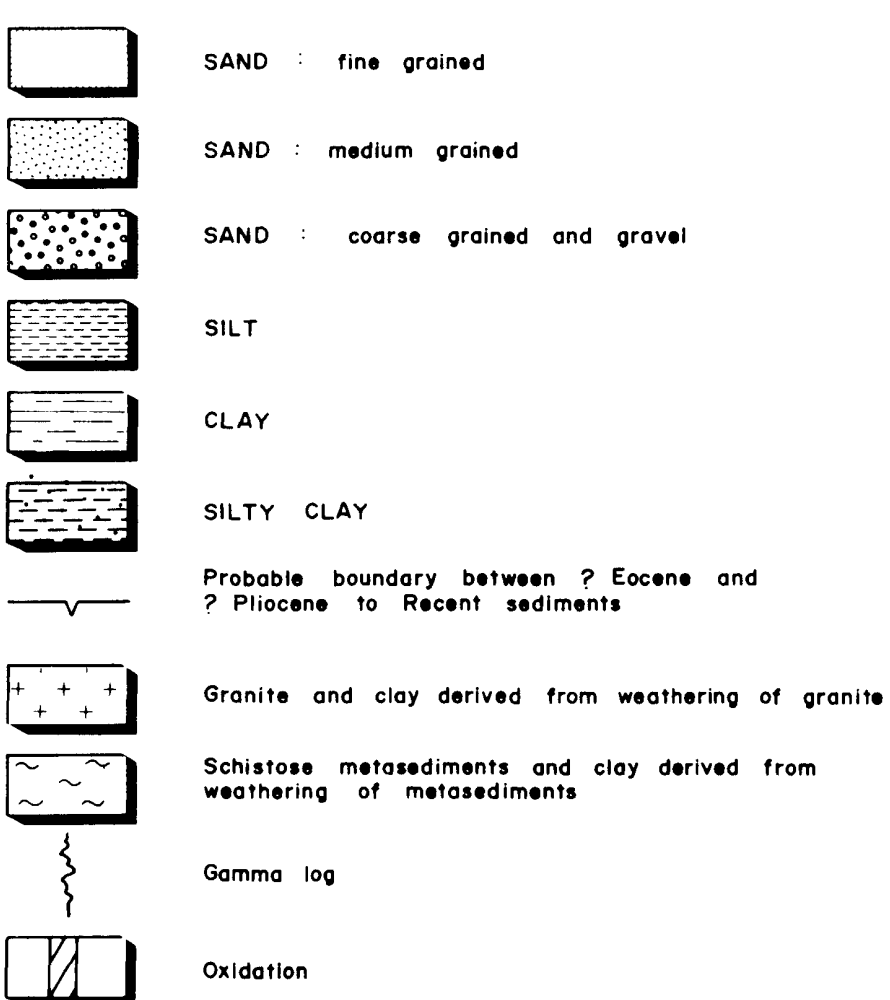
LOCATION OF CROSS-SECTIONS



SCALES

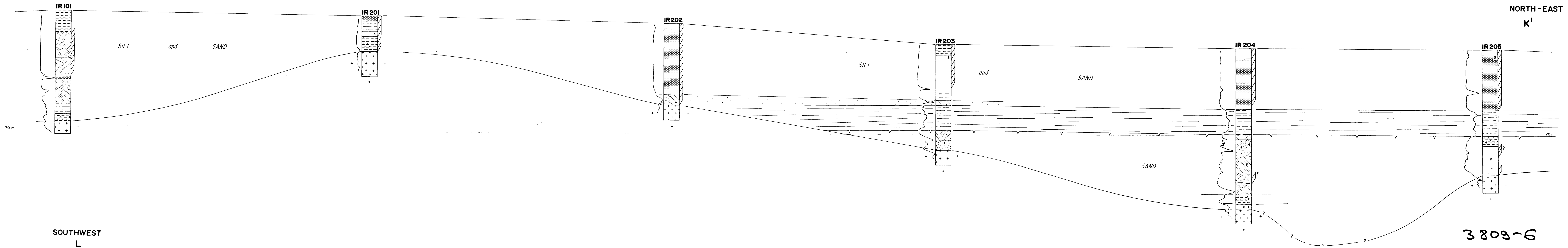


LEGEND



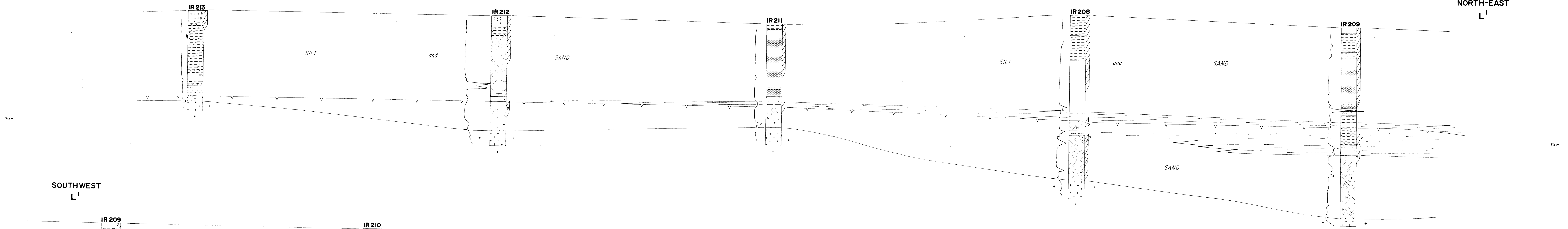
REVISION	SCALE: As Shown	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO. G.H., P.O., P.B.	<b>E.L. 540 POONDANA ROCK</b>
	DRAWN: JMc.	<b>E.L. 586 MT. STURT</b>
	CHECKED: JMc.	<b>SOUTH AUSTRALIA</b>
	DATE: AUG. 1980	<b>CROSS SECTIONS H, I &amp; J</b>
	MICROFILMED:	
	ROLL N°:	
	MINING FIELD or DISTRICT:	NARLABY CHANNEL 1 STH. AUST. 15708

SOUTH-WEST  
K



NORTH-EAST  
K'

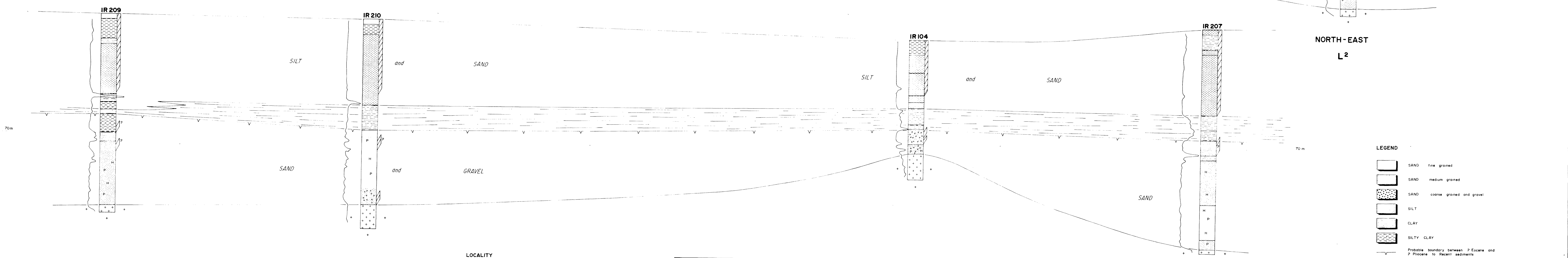
SOUTHWEST  
L



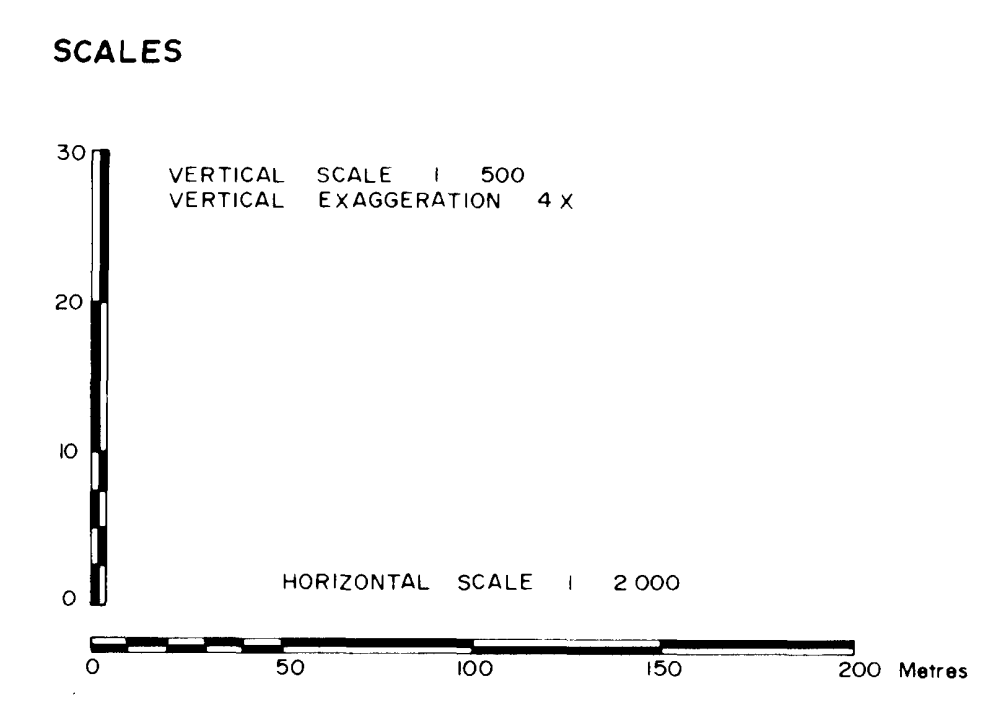
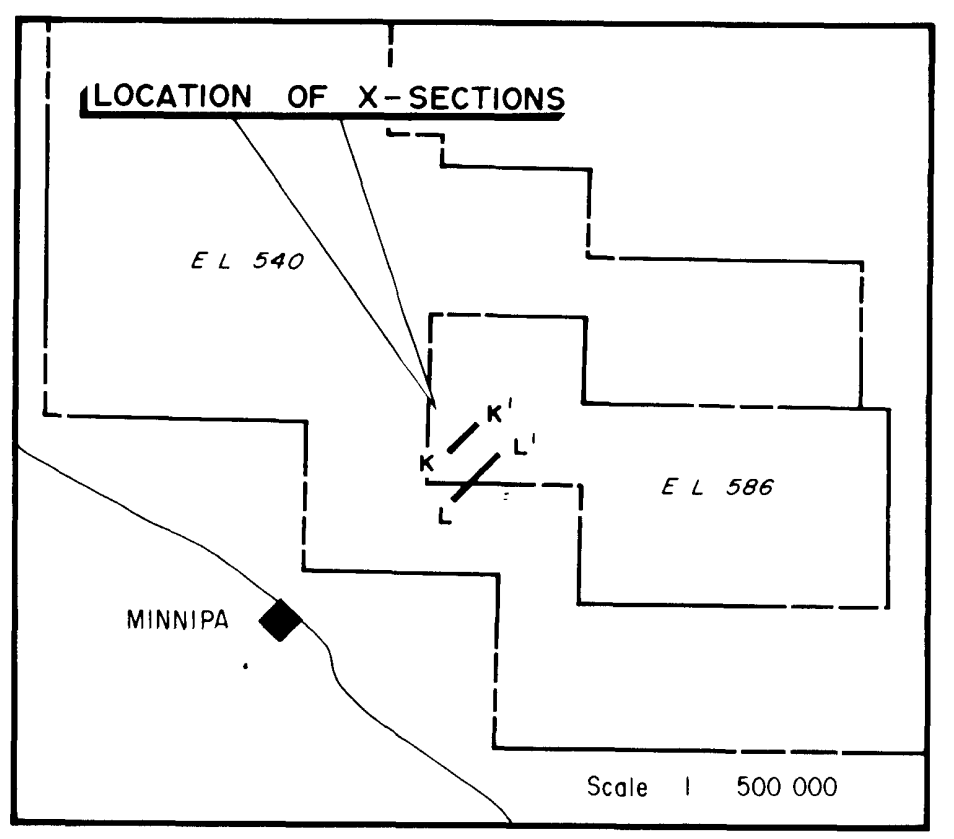
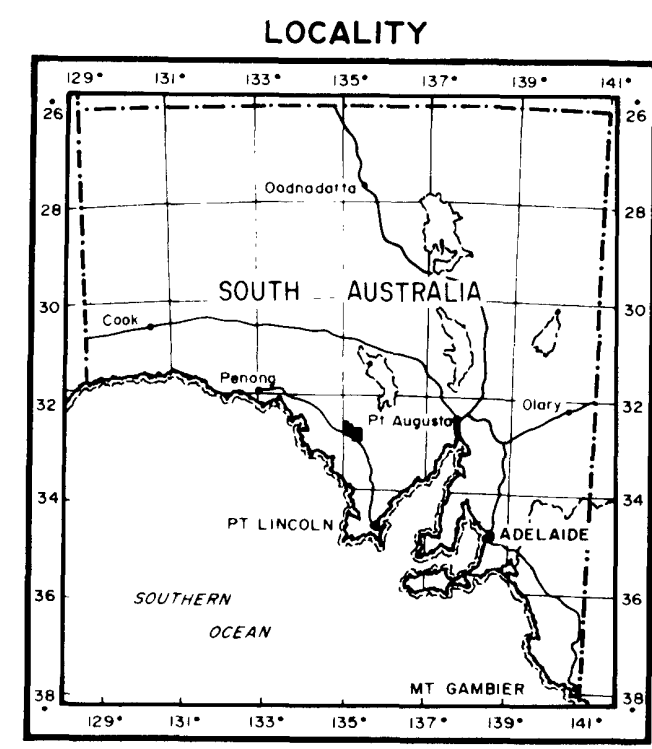
3809-6

NORTH-EAST  
L'

SOUTHWEST  
L'



NORTH-EAST  
L''



- LEGEND
- SAND fine grained
  - SAND medium grained
  - SAND coarse grained and gravel
  - SILT
  - CLAY
  - SILTY CLAY
  - Probable boundary between ? Eocene and Pliocene to Recent sediments
  - Granite and clay derived from weathering of granite
  - Schistose metasediments and clay derived from weathering of metasediments
  - Gamma log
  - Oxidation

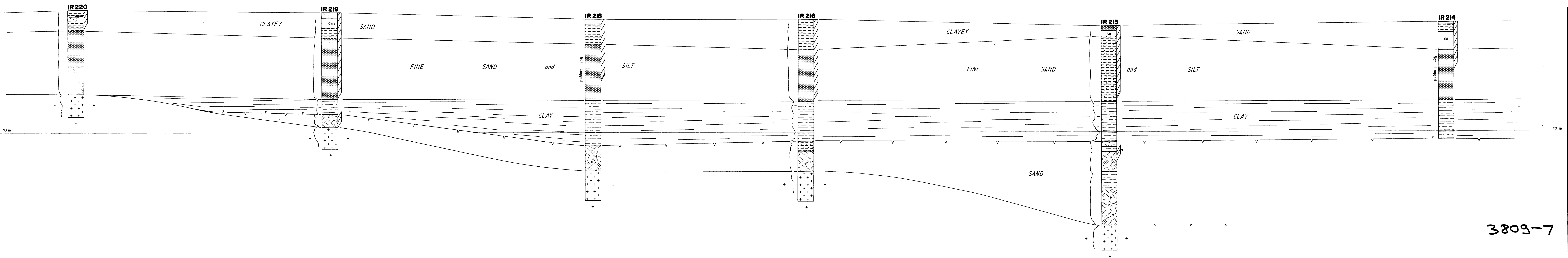
REVISION	SCALE: As Shown	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO G.H., P.O., P.B.	<b>E.L. 540 POONDANA ROCK</b>
	DRAWN: JMC	<b>E.L. 586 MT. STURT</b>
	CHECKED: /	<b>SOUTH AUSTRALIA</b>
	DATE: AUG 1980	<b>CROSS SECTIONS K &amp; L</b>
	MICROFILMED:	
	ROLL NO:	
	MINING FIELD or DISTRICT: NARRLBY CHANNEL	STH AUST
		DPG NO: 15709

SOUTH - WEST

NORTH - EAST

M

M'



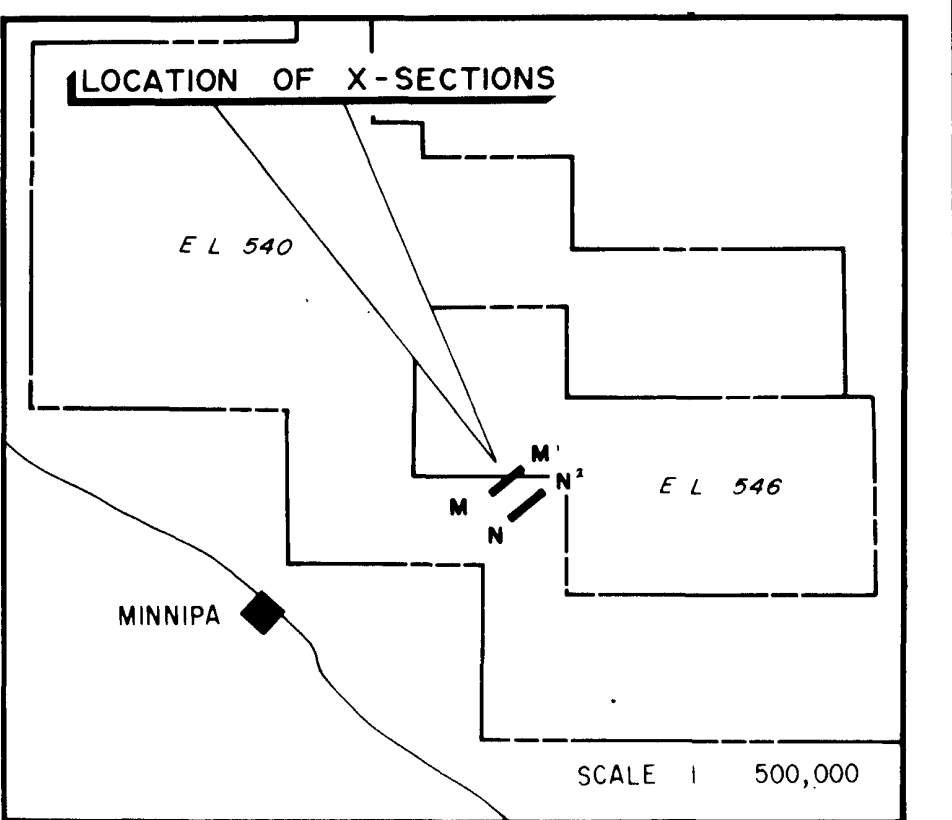
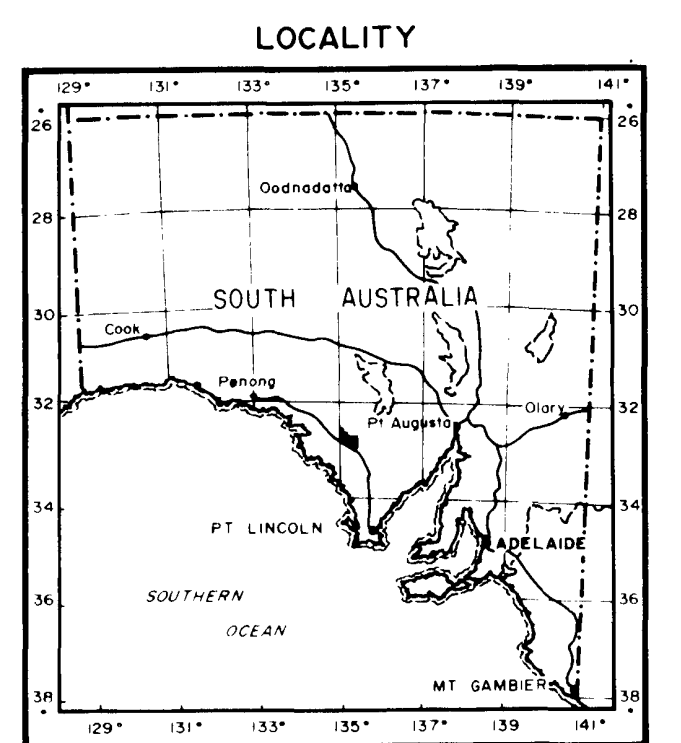
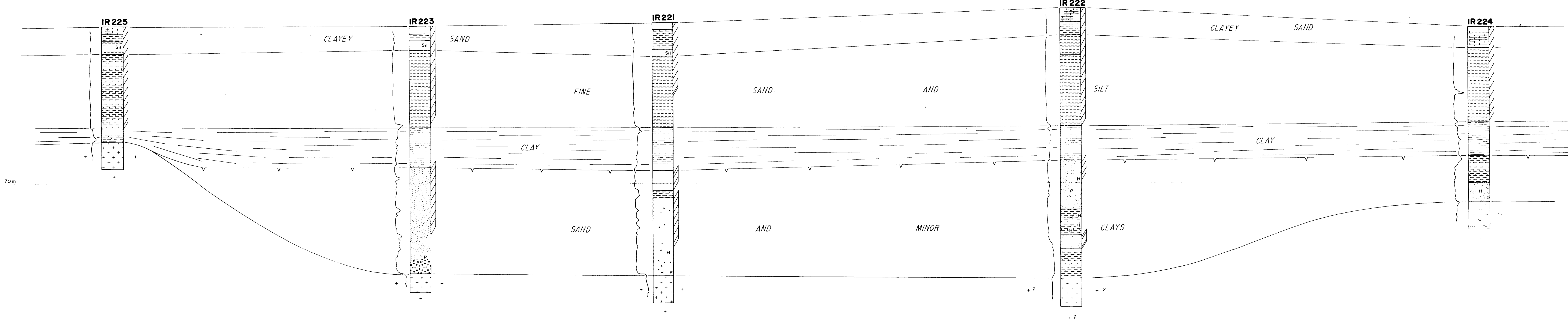
3809-7

SOUTH - WEST

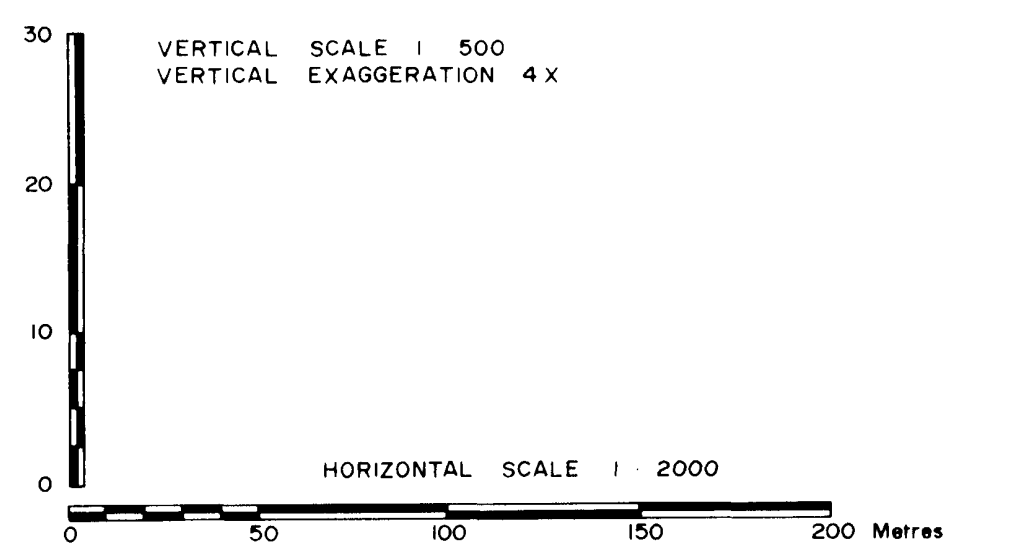
NORTH - EAST

N

N'



SCALES

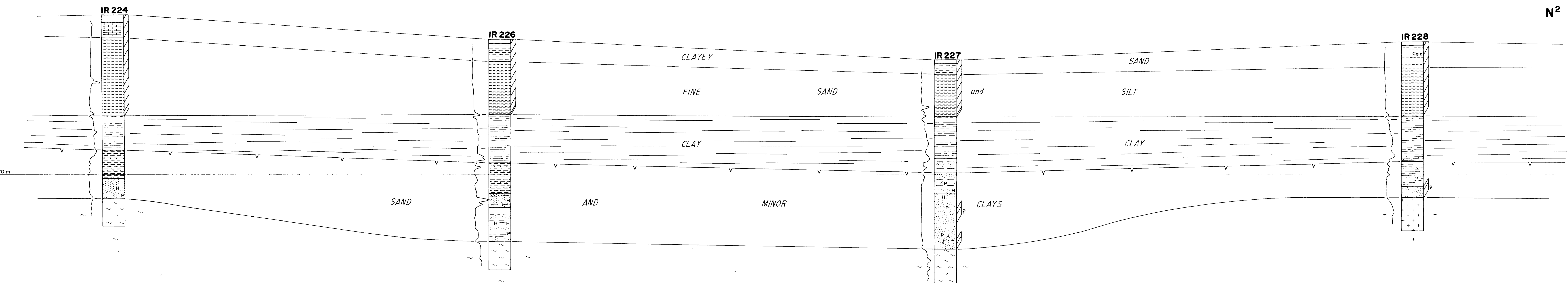


SOUTH - WEST

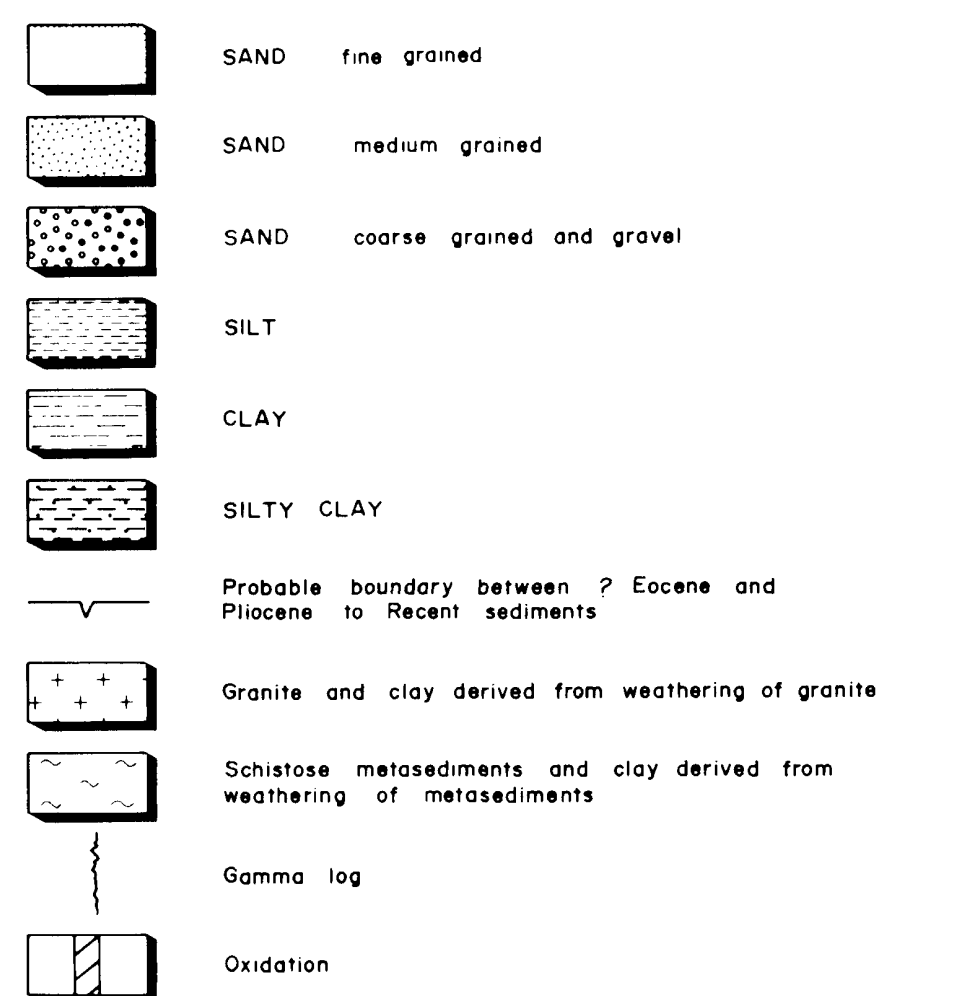
NORTH - EAST

N'

N<sup>2</sup>

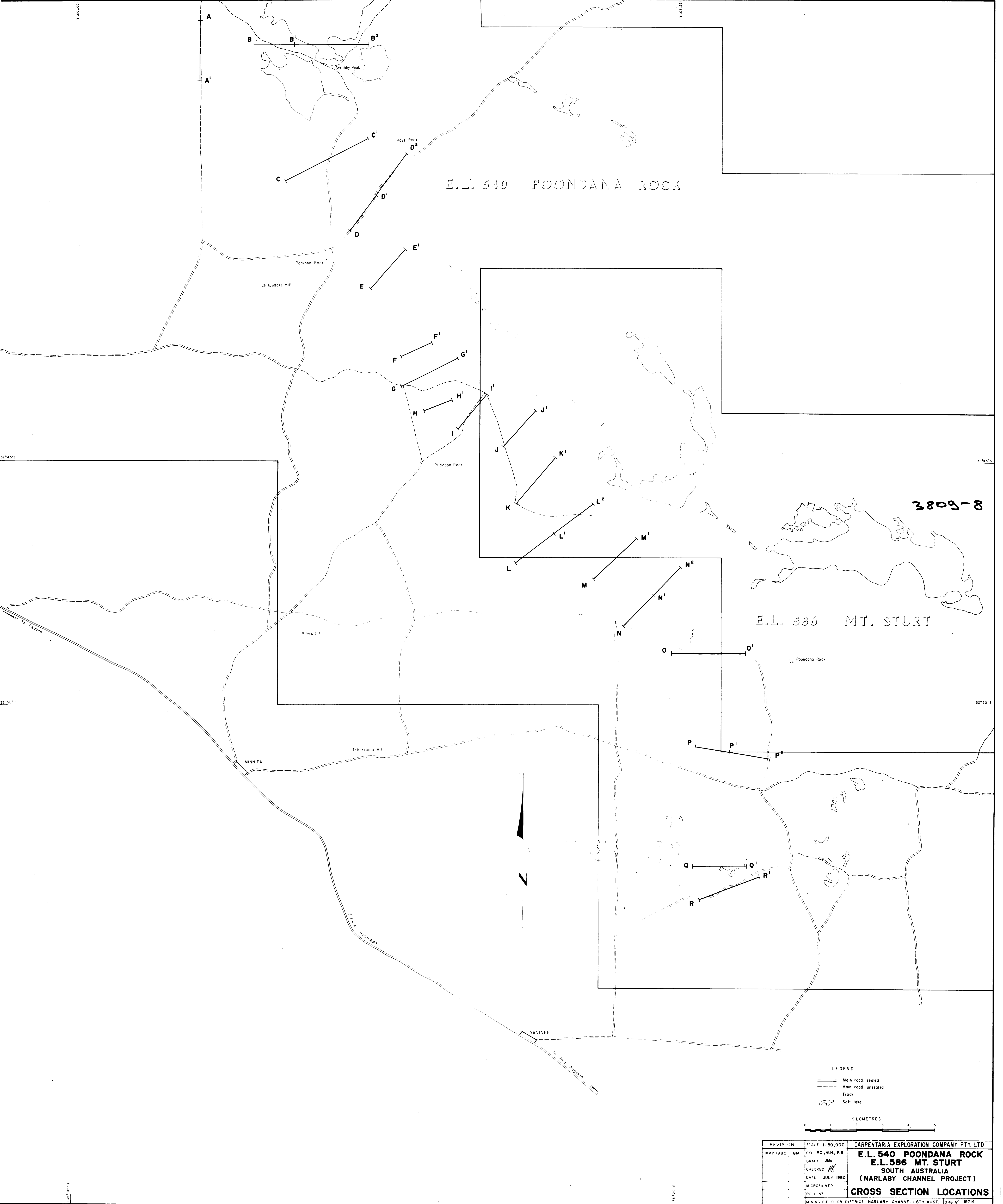


LEGEND



REVISION	SCALE: As Shown	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GED: G.H., P.O.	E.L. 540 POONDANA ROCK
	DRAWN: J.M.C.	E.L. 586 MT. STURT
	CHECKED: J.M.C.	SOUTH AUSTRALIA
	DATE: AUG 1980	CROSS SECTIONS M & N
	MICROFILMED:	
	ROLL NO:	
	MINING FIELD or DISTRICT: NARLBARY CHANNEL 5TH DIST	ORG. NO: 1570





E.L. 540 POONDANA ROCK

E.L. 586 MT. STURT

3809-8

LEGEND

- Main road, sealed
- Main road, unsealed
- Track
- Salt lake



REVISION	SCALE 1:50,000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
MAY 1980, GM	SEC. PO, G.H., P.B.	E.L. 540 POONDANA ROCK
	DRAFT JMC	E.L. 586 MT. STURT
	CHECKED <i>JMC</i>	SOUTH AUSTRALIA
	DATE JULY 1980	(NARLABY CHANNEL PROJECT)
	MICROFILMED	CROSS SECTION LOCATIONS
	ROLL N°	
	MINING FIELD OR DISTRICT NARLABY CHANNEL - STH. AUST.	DRG N° 15714