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EL 186

PANDURRA AREA SOUTH AUSTRALIA

SURRENDER REPORTS APRIL 1976

Submitted by Pacminex Pty Ltd

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EXPLORATION LICENCE 186

TENEMENT HOLDER:

C.S.R.

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REPORTS:

TONKIN, D.G. 1976

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PACMINEX PTY. LIMITED

RELINQUISHMENT REPORT FOR PORTION OF EXPLORATION LICENCE 186 PANDURRA AREA, SOUTH AUSTRALIA

PMR 73/76



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KEYWORDS

SOUTH AUSTRALIA

EXPLORATION

9E.L. 186

GEOLOGY

SURVEY

INPUT

STRATIGRAPHY

9PANDURRA

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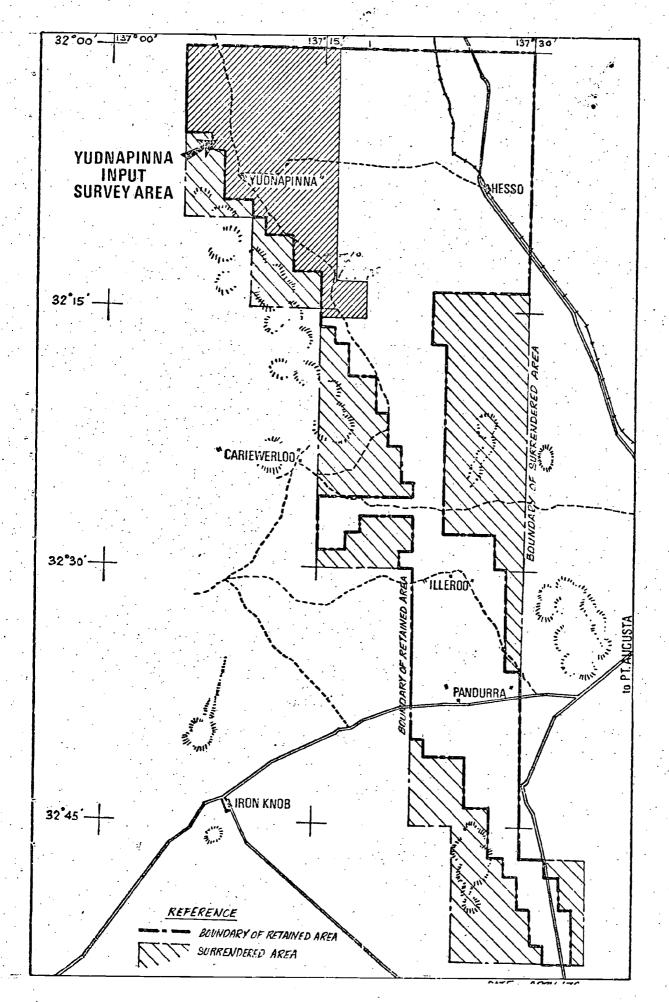


FIGURE 1 LOCATION MAP E.L. 186 (PANDURRA) S.A. SHOWING AREA SURRENDERED AND LOCATION OF INPUT SURVEY

1.__ INTRODUCTION

Exploration Licence 186 (E.L. 186), known as the Pandurra Area, South Australia was granted to CSR Limited on the 7th of April, 1975. It covered an area of 2,215 km². The identical area had been held since March 1973 under Exploration Licence 50, by Mount Gunson Mines Pty. Limited, a CSR Limited subsidiary.

In October, 1975 CSR Limited applied for the Minister's consent to surrender approximately 738 square kilometres of Exploration Licence No. 186, reducing the area retained to 1,477 square kilometres. Consent was granted in March, 1976.

This report describes exploration in the excised portions, which are outlined in Figure 1. These portions are considered to have a low exploration potential for copper and other base metals.

2. SUMMARY

Surface geological mapping and open hole stratigraphic drilling were carried out in the relinquished portions of E.L. 186. As a result of this work, the surrendered area is considered to have a lower potential for base metal mineralisation, of the type sought, than the area being retained.

3. EXPLORATION OBJECTIVES

The Pandurra Area was taken up for the exploration of copper deposits similar to those found at Mt. Gunson and also for base metal deposits that may be associated with other favourable depositional environments. It was considered to have potential for the Mt. Gunson type of deposits because outcrops of Pandurra Formation rocks were known to occur in the area. At Mt. Gunson, rocks of the Pandurra Formation form the principal host to copper mineralisation. Copper is concentrated in the Pandurra Formation at or near an erosional unconformity separating the Pandurra Formation from the overlying Whyalla Sandstone.

4. EXPLORATION STRATEGY

Exploration strategy was to locate geologically favourable areas which would then be more closely prospected. This meant outlining the Pandurra Formation and tracing its contact with the overlying Whyalla Sandstone. It also meant finding any areas where Pandurra Formation occurred at shallow depth, beneath a thin cover of Whyalla Sandstone.

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CARPENT- GAWLER PANGE VOLCANICS				ANICS	

Figure 2. THE ADELAIDEAN SEQUENCE OF THE STUART SHELF

5. EXPLORATION METHODS

The methods adopted for the exploration programme were outcrop mapping, sub-outcrop mapping, sub-surface interpretation guided by stratigraphic drilling and airborne geophysical surveys. Because the various rock units have been relatively undisturbed since they were deposited, their distribution and development can only be traced by extensive drilling.

5.1 Geological Mapping

Reconnaissance geological mapping was done between June and September, 1973. In many places surface float material was used to interpret the nature of the rock sub-outcrop. Later stratigraphic drilling proved this procedure to be unreliable. Drawing No. I534-2 shows the bedrock lithology in the portions relinquished. This plan is based on information obtained from both surface geological mapping and stratigraphic drilling.

5.2 Stratigraphic Drilling

Stratigraphic open hole drilling programmes were undertaken in October/November 1973, March 1974 and June/July 1974. The first programme was drilled by AFRAC Drilling Pty. Limited, the second and third by Thomson Drilling Co. Pty. Limited. Mayhew 1000 rotary drilling rigs were used each time.

Twenty-one rotary holes were drilled in the relinquished portions of E.L. 186. Drill hole logs, including geochemical assay data, are appended to this report. Current stratigraphic interpretations of these logs are also appended. Figure 2 depicts the current interpretation of the Adelaidean Sequence on the Stuart shelf. Drill hole locations are shown on Drawing No. I534-2.

5.3 Airborne INPUT Surveying

The two surrendered blocks in the north-western corner of E.L. 186 were covered by part of an airborne INPUT electromagnetic survey (Figure 1). This survey was flown by Geoterrex Pty. Limited in February, 1975.

Within the relinquished portions of E.L. 186, EM conductivity was uniformly low. This was taken as confirming the presence of Pandurra Formation rocks in outcrop or sub-outcrop throughout the surrendered area. Plans showing INPUT 4th channel contours and isomagnetic contours for the surrendered areas are included with this report (Drawing NO.'s I534-3 and I534-4).

6. MINERAL POTENTIAL

The area relinquished is considered to have low potential for the minerals sought. In those portions adjacent to the western border of E.L. 186, the Pandurra Formation crops out, with little or no covering by Adelaidean sediments. Rocks older than the Pandurra Formation also crop out in some of the relinquished portions on the western side of E.L. 186 (See Drawing No. 1534-2).

On the eastern side of E.L. 186 two portions were surrendered, because the depth, to the geological strata considered favourable, was too great. This was especially so in the area covered by North Tent Hill and the Horse Shoe Hill Range, where mesas rise to more than 200 metres above the level of the plain.

APPENDIX I

STRATIGRAPHIC INTERPRETATIONS OF DRILL HOLE LOGS

APPENDIX I

STRATIGRAPHIC INTERPRETATIONS OF DRILL HOLE LOGS

18-30 m : "Yudnapinna Beds"

30-49 m : Woocalla Dolomite; leached to

Magazine Hill type clay.

49-97.5 m : Woocalla Dolomite; dolomitic shale

facies

Hole No. EX 20 0-9 m : Quaternary Sediments

9-15 m : Tregolana Shale

4 15-64 m : "Yudnapinna Beds"

64-96 m : Woocalla Dolomite; dolomitic shale

facies

Hole No. EX 29 0-10.5 m : Quaternary Sediments

10.5-47.7 m : Pandurra Formation

15-24.4 m : Pandurra Formation

Hole No. EX 31 0-3 m : Quaternary Sediments

3-6 m : Silcrete

6-53.9 m : Pandurra Formation

53.6-54.9 m : Fine-grained igneous rock (Gawler

Range Volcanics?)

Hole No. EX 32
0-6 m : Quaternary Sediments

6-18 m : "Yudnapinna Beds"

18-42.7 m : Gawler Range Volcanics (acid volcanics)

Hole No. EX 35 0-7.5 m : Quaternary Sediments

7.5-64 m : Tregolana Shale

29 64-93 m : "Yudnapinra Beds"

APPENDIX I CONT. 2

Hole No. EX 44 0-3 m : Quaternary Sediments

3-21 m : "Yudnapinna Beds"; leached to a clay

5 % + 21-79.9 m : "Yudnapinna Beds"

Hole No. EX 58 0-3 m : Quaternary Sediments

3-64 m : Pandurra Formation

Hole No. EX 64 0-6 m : Quaternary Sand

6-12 m : Cainozoic Sediments

12-36 m : "Yudnapinna Beds"; leached to a clay

36-56 m : "Yudnapinna Beds"

56-70 m : Woocalla Dolomite; dolomitic shale

facies

Hole No. EX 65 0-6 m : Quaternary Sediments

6-61 m : Pandurra Formation

Hole No. EX 93 0-33 m : Tregolana Shale

33-42 m : "Yudnapinna Beds"? (or Tregolana

Shale?)

Hole No. EX 100 0-3 m : Quaternary

3-9 m : Gawler Range Volcanics

Hole No. EX 101 0-3 m : Quaternary

3-46.5 m : Pandurra Formation

Hole No. EX 102 0-6 m : Quaternary Sediments

6-15 m : Pandurra Formation

Hole No. EX 105 0-5 m : Quaternary Sediments

5-9 m : Gawler Range Volcanic? weathered

to a clay.

9-18 m : Gawler Range Volcanics? (?acid

volcanics).

APPENDIX I CONT. 3

Hole No. EX 106 0-3 m : Quaternary Sand

3-9 m : Silcrete

9-12 m : Gawler Range Volcanics? weathered

to a clay

12-18 m : Gawler Range Volcanics? (?acid

volcanic)

Hole No. EX 107 0-12 m : Cainozoic

12-30 m : Gawler Range Volcanics? weathered

to a clay

-30-33 m : Gawler Range Volcanics? (?acid

Volcanic)

Hole No. EX 108 0-6 m : Quaternary

6-7.5 m : Silcrete

7.5-33 m : Gawler Range Volcanics? (?acid

Volcanic)

Hole No. EX 109 0-3 m : Quaternary

3-77 m : Pandurra Formation

Hole No. EX 110 0-2 m : Quaternary

2-4 m : Silcrete

4-72 m : Pandurra Formation

APPENDIX II

STRATIGRAPHIC DRILL HOLE LOGS

HOLE No. EXI 9

PROJECT No. PROJECT AREA: 405 PANDURRA SPUDDED: COMPLETED: 12 - 10 -11 - 10 - 73 * CARIEWERLOG " CO-ORDS: X: LOCATION: 75.664 m DIRECTION: INCLINATION: TOTAL DEPTH: ELEVATION: 97.5 m. DRILLING CONTRACTOR: DRILLER: HOLE TYPE: AFRAC R. TAYLOR ROTARY LOGGED BY TO

LOG	GED	8Y:	D.G.T. DATE: BIT SIZE:	ТО			TO			• •	10		_	
CORE RECOVERY	→	705	DESCRIPTION	bodd'g angle joint specing		LOG SCALE:	PLE No.	Assayed length		A:	SSAΥ - ρ. γ.		JE	<u> </u>
CORE	ACT9 ACE	MEN		Core and i		1 : 600	SAMPLE	Assay	Cu	ΡЪ	Z _n	Mα		
		0	_			–	·							
	L	Ĭ	SAND : 0 - 3'M			3 -	85373	3	.30	30	30			
		L	GAAVEL: 3m-6m	<u> </u>	2.5	6 _	85374	3	15	ميه	25			
		1	CLAY: 6m - 15m	ł		9 -	85375	3	20	k2o	45			
	L		Red clay				85 376°	3	15"	<20	351			
1	L	15	, , , , , , , , , , , , , , , , , , ,			15 -	85 377	- 3	20	K20	30			
1		" [SAND: 15m - 18m. Louise fine red/bram				85 378	3.	15	<20	25		•	
١.,	Γ		WHYALLA SANDSTONE: 18m to 30 m		;	, , , , , , , , , , , , , , , , , , ,	85 379	3	10	√،ک ن	20			
1	Γ	L	18m ho2/m: medium gramed, rounded quists				85 380	3	10	್ಕ ಿಂ	10			
			21m Lo 27m: fine grain, while i pink grains			29 -	85 381	3	io	<20	10			
		30	27m to 30m: S.S., pink/hown, clayey.	<u> </u>		2.5 —	85 382		20	20	ત્રહ			
ĺ	Г		MAGAZINE HILL CLAY 30m to 49 m	l		. 34 -	95 383	.3						
-	Ţ.		30m lozym - Soft greenish	1		. 17 -	85 384	3	40	do	25			
1		. [34m to 37m - Sundy, yellowa gray	1		// -	85 385	3						۰ ـ ـ ـ ـ ـ
	T	[37m to 49m - Grey clay, sandy.	1			85386	3	15	<20	70			
		[.		45 - 46 -	85387	3						l
1		46					85388	3	690	55	ن3 <u>ک</u>	270		
			WOOCALLA DONOMITE 49m to 97.5 m			49 -	85389	3	170	55	1.20	1100		
			49 m Liam - Grey mudstone	l :	_	52 - 88 -	85 390	3	130	50	100	150		
	Ι.		52m to 89.5m - Black Calcareaus	1	111	58 -	85 391	3_	. 65	50	85	2100		
		61	(dolumitic) shale			61 —	85 392	3	50	50	95			
	Г	""				64 -	85 393	3		<u> </u>				
		Ī			_	67 -	85394	3_	55	50	140			
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	- 1	12]		l	85400	3	50	45	90			
İ		35	89.5 m to 91 m - Hard grey dolomite]		85 -	85401	4.5						
ł	- 1	88.]	#7	89.5-	85402	.3	210	210	10		'	
1	1	91	91 m to 97.5 m - Black dolomitie			91 —	85403	3						
i		74	shale.			94 -	85 404	3	160	30	110		<u> </u>	
	1	98	97.5 M END HOLE			97-5					Ī			
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HOLE No. EX 201

PROJECT No. PROJECT AREA: PANDURGA 405 SPUDDED: COMPLETED: 12-10-73 12 - 10 - 73 CARIEWERLOO . LOCATION: CO-ORDS: X: Y: 67.967 M DIRECTION: INCLINATION: y TOTAL DEPTH: ELEVATION: 96 m. DRILLING CONTRACTOR: AFAAC DRILLER: R. TAYKOR HOLE TYPE: RO TARY LOGGED BY: 8. G.T. DATE: BIT SIZE: · TO TO 10

roee	ED BY	Y: B. G. T. DATE: BIT SIZE:	TO			10				10	··	_	
CORE RECOVERY	METRAGE	DESCRIPTION	Core bedd'g angle and joint spacing		LOG SCALE: I: 600	SAMPLE No.	Assayed length	Cu	A Pb	SSAY β.β., Ζη	<u>n ·</u>	JE	
		L									1		
	−ø -3	SAND: Red Sand & soil				85405	3	40	25	55			
	ر ای	SAND & GARVER : (4548in asilcule)		ن د		406	3	30	35	45			
·	9	CLAY: Simely, red & while, & pink lithic grains		_		407	3.	30	20	50			
	-12	TREGOLANA SHALE: Hard ned a light				Ä08	3	45	35	50			
	-15	green mudstone				409	3	35	20	55			·
	- 18	WHYALLA SANDSTONE : 15m to 52m				410	3.	15	20	20			
٠.	-21	15 m wilm - Hard while of the graned			_	411	3	25	25	35-			
. }	- 2u	Tround gtz 4 pink lithics				412	3.	20	220	30			
	- 21	18 m to 21 m - Green white. I mm would		٠.	_	· 413	3	30	25	40			
	<u>3</u> 0	gtz. d pink / thick in fine y mass.				414	3 `	10	120				
	- 34	21m to 34m - off white, as above.			-	415	3`	10	i				
	- 37	34m lo 40m - Grey, as above.				416	3.		<20	50			
	- Ho	an in to 46 m - Dignay, coarser gramed		· . ·		4/1	3-	_	K20	60			
	- 4 3	46 m to 49 m - Olive f.g. ss. Elmm littics			; •]	418	3		20	50			
١,	- 46	49 m to 52 m - Ciny/groza, clayey			· _	419	3.		مړڼ	30			·
	- 49	52m - Water table.			-	420	3	10	420	35		\vdash	
	- 52	W				421	3-	iO	<20	45			
	-5%	"YUDNAPINNA BEDS". SZM to 96m		-	-	422	3	,20	30	5'5		\vdash	
	- 28	52m Lu SSm: Gney sundy culcaceus		_	-	423	3	20	20	45	0.		,
.*	<u></u> 6/	55m to 64m: Green brown calc siltst.				424		/a	25		890	 	
	-64	WOOCALLA SOLOMITE 64 to 96			64	425	3		60			$\vdash \dashv$	-
	- 67	64 to 18 tm: Hard, gray dolumite. 2 tr. FeS		/, /, ; !	67 -	426		850 95			4200 3200		_
	- 70	685 m to 96m. Black clulomitic		\equiv	-	427 428	<u>3</u> 3	40	1	.85			
	- 73	s na(g				429	3	.~~ _	40	75	7680		
	- 76	70 m to 96 m - contamination			, _	430	3			·			<u> </u>
	- 79	of sample from top of hole.		\equiv	-	43 <i>i</i>	3			_		<u> </u>	
	- 83	RFm to 9/m - Contam. 75%		\equiv		432	3			_			<u> </u>
l	- 88 - 88	9/m Lo 4/m - contain, 90%)		\equiv		433	3_						<u> </u>
	- 66 91			\equiv		434	3						
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022 HOLE No. Ex 29

PAGE OF

PROJECT AREA:

PANDURRA

PROJECT No.

SPUDDED: 15- 10-73

405 COMPLETED: 15-10-73

LOCATION: CARIEWERLOO"

CO-ORDS: X:

ELEVATION:

DIRECTION:

INCLINATION:

TOTAL DEPTH:

HOLE TYPE:

ROTARY

DRILLING CONTRACTOR:

45.7 m

AFRAC

DRILLER: A TAYLOR

LOGGED BY: D G T DATE:

BIT SIZE:

TO

TO

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	-	T: DG T DATE: BIT SIZE:	10			10			•	TO		_	
CORE RECOVERY	METRAGE	DESCRIPTION	Core bedd'g angle and joint spacing		LOG SCALE:	SAMPLE No.	Assayed length		^	SSAY PP	VAL:	UE	
င်ဝ	ME		3.5		1:600	NA.	¥.	Cu	Pb	Zn			_
	_ o				_			Ĺ					<u> </u>
	- 3	SAND - CLAY: 0-6m		1	1 .	85576	3	10	420	20			
	_ (ļ.,,	-	85577	3	15	120	30			
	- 9	SAMO = GRANEL: 6m - 10-5 m	ł	ر و و و		85578	3	20	4,20	35			
	- 12	2.0] -	855.79	. 3	15	(20			L_	
	i- 15"	? PANDURRA FM: 10 5m to 24m	ŀ		_	85580	3	15	420	مد		<u>_</u>	
	- 18	10.5 to 15m: Buff claypy S.S. Friedle Prohlithics				855 P/	3	/0	<20				<u> </u>
	- 21	15 m to 2/m: Pmt s.s.				85582	3	/o	20	10	٠.	<u> </u>	
	- 24	21 mto24m: Coarse, & white angulate round 4tz.	-	<u> </u>		85583	3	/o	120	./0			<u> </u>
	- 27	PANDURRA FM: 24 m Lo 45.7m			_	855 94	3	5	120	10		-	<u> </u> -
	3o	24 to 27 m - Coare 5.5. of 4 m.m. gtz. grains		٠,	_	855 85	3	10	<20			_	-
·	- 34	27 to 30 m - Ar above, prima while growns		•	-	85586	3	<2		10		-	-
*	- 37	304 to 45-74 - Hard, course S.S. while?	٠ -	• •	_	85587	3	<ک_	20	10		-	
	- 40	some punk gtz. grano.			-	85589	3	<2 <2	⟨20	10			_
	- 43	45.7m: END HOLE		•	-	85590	3	$\overline{}$	<20 <20	-1			
	_ 46					133 70	ر _	-	120	10			·
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	-	24-27 m Petrography PMR 127/75			-								
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HOLE No.

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PAGE

PROJECT AREA: PANDURRA

DIRECTION:

PROJECT No. 405

SPUDDED: 16 - 10 - 73 COMPLETED:

CO-ORDS: X:

16-10-73

LOCATION: **ELEVATION:** "CARIENERLOO"

INCLINATION: ٧. TOTAL DEPTH:

24 4 m

HOLE TYPE:

ROTARY

DRILLING CONTRACTOR:

AFRAC

DRILLER: R. TAYLOR

LOGGED BY: D.G.T. DATE: BIT SIZE:

TO

TO

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I.OGG	SED BY	: D.G.T. DATE: BIT SIZE:	TO			10		. '	*	10			
CORE RECOVERY	METRAGE	DESCRIPTION	Core bodd'g angle and joint spacing		LOG SCALE:	SAMPLE No.	Assayed length			SSAY P. (JE .	
ŏ	2		ပြီ		1:600	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	Cu	28	Zn			.
	_ 0												
1.	- 3	SAND 4 CLAY : 0 -9m			_	85591	3	15	120	25			
1	٦,	c - 6m : Grouge - red	ļ · · ·		<u> </u>	85592	3	20	220	40		<u> </u>	
1 .	- 9	6 - 9 m: Ever- red sand, presish day	<u> </u>	<u>:</u>		85593	_3	15	120	30			
	-12	SAND & GRAVEL : 9-15m.	1	6 0		P5594	3 .	10	L20	15			
	_15	12 - 15m. Course brown Sund some pelities	.	ن °ن	_	85595	3	·	120	15			
1	18	PANDURRA FM: 15m to 24.4 m.	1			85596	3	1	120	10			
1	-21	15 m for 21 m : Red 5.5.			_	85597	3	<u> </u>	(20	10		·	
1	-24	21m to 24-4m: Hard, deep red	Ļ	-	-	85598	3	10	420	10		 	
	- "	14-4m: END HOLE	1		· -								j
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UZ4 HOLE No.

EX31

PAGE OF 1

54.9

PROJECT No. 405 PROJECT AREA: AAADURRA COMPLETED: 16-10-73 SPUDDED: 16-10-73 CO-ORDS: X:

LOCATION: "CARIEWER LOO" INCLINATION: ELEVATION: 126.819m DIRECTION: . 4 TOTAL DEPTH:

DRILLING CONTRACTOR: DRILLER: R. TAYLOR HOLE TYPE: AFRAC ROTARY & DIAMOND COAR

· 	ED BY		то		AFRAC	то	KILLE			то	<u>. </u>	<u>-</u>	
CORE RECOVERY	AGE	DESCRIPTION	bedd'g angle ioint spacing		LOG SCALE:	Le No.	Assayed length		^	SSAY	VAL L	JE	•
CORE	METRAGE		Core by and jo		1:600	SAMPLE	A558y	Cu	Pb	Zn	<u> </u>		
	_0	_			- ·								
	3 -	Chay: Morange 0-3m		/////	_	85599		20	30				
	٦.	STACAETE: 3-6m - Brown / Pinh		////	·	85 600		10	35	15		-	
	- 9	PANDURRA FM: 6m - 53.6 m				85601	3	15	120	10			
1	-12	6 - 9 m: White, slight silie, poorly rounded				85602	3	(1)	120	10			
	- 15	9-12m: Strew colour; Grafte			. –	85 603		5	(20	5-			
1	- 18	12 -52 6mi Purple while 5.5. 3 equidimensional				85604 85604		10 90	K20	10	i		
	- 21	gto grains		, .	<u>-</u>	P5606	3	10	85°	.15			
	- 24				-	85607	3	10	20	13			
	- 27					85608	3	10	420	10			
1	30					85609	3	10	120	10			
	34					85610	3	5	120	35			
1	- 37 				_	85611	3	5	ري	10			
	- 40	41.8 - 43.2 M : COAED			-	856/2	3.7	5	120	10			
	1 ' ' '			: - :		85613		25	30	15			
	- # (85614	3	20	25	15"			
	- 49				.]	85615	3	5	120	10			
i	- 52 - 5 5	GAWIER VOLCHNICS: 52-6m to 54-9 m		V V		85616	3_	5	35	15.			
ŀ	[]	54.9 m : END HOLE											
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HOLE No. 0.25°

PROJECT AREA: PROJECT No. PANDURRA SPUDDED: COMPLETED: 16 - 10 - 73 LOCATION: CO-ORDS: X: "CARIEWERKOD 121 962 m DIRECTION: INCLINATION: **ELEVATION:** TOTAL DEPTH: DRILLING CONTRACTOR: HOLE TYPE: DRILLER: AFRAC A. TAYLOR ROTARY D.G.T. DATE: BIT SIZE: . TO LOGGED BY: TO TO

LOG	GED BY	Y: D.G.T. DATE: BIT SIZE:	TO		<u>. ·</u>	10		-	•	10			
CORE RECOVERY	METRAGE	DESCRIPTION	Core bedd'g angle and joint spacing		LOG SCALE:	SAMPLE No.	Assayed length	C_{i}	Pb	SSAY P.P.M.	1	JE	
									-	-		-	
1	一 o	SAND SOLL I GRAVEL : 0-3m		5000	_	85.617	3	.3c	50	60			
	ر کی ا	CLAY & GYPSUM : 3m - 6m : Pinkolay				85618	3	-	رى	50			
	9	CKAY-RICH SANDSTONE: 6 mto 18m				85619	3	10	120	15			
Ĭ	_ 12	6-9m: Green/grey clayey s.s.				85,620	3	20	20	15			
1	-15	9-15m! Hard greenish clay		: 1	_	85-621	3	20	20	30			
	- 18	15-18m: Yellow/green clayey ss.				85622	3_	15	دى2	40			<u> </u>
1	- 21	GAWKER VOLCANICS: 18 m to 42 7 m		7 7	N	85 623	3	15	25	10			
	24	Dark purgle/frown volcanic			. ``_	85 624	3	10	20	170			
	17			v.,	_	85625	3	10	60	120			ļ
1	30			٧,,	·_	85626	3	10	55	120			<u> </u>
	- 34	<u> </u>		. v v	-	85627	3	10	95	160			<u> </u>
1	- 37			٧.,	, * , ,	85628	.3	10	10	35			
	- 40			۲٧,	40	85629	3 .	5	90			- 1	
	- 43	42.7m : END HOLE		, ,		85630	3	10	110	55	\dashv		
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HOLE No. EX35

PROJECT No. PROJECT AREA: 405 PANDURRA SPUDDED: COMPLETED: 31-10 -73 30 - 10 - 73 "CARIEWERLOO" CO-ORDS: X: LOCATION: · Y: 118-374 DIRECTION: INCLINATION: TOTAL DEPTH: ELEVATION: ٧ 93 m. DRILLING CONTRACTOR: DRILLER: HOLE TYPE: · AFRAC R. TAYLOR ROTARY LOGGED BY: D.G.T. DATE: BIT SIZE: TO TO

-		: D.G. (DAIE: BIT SIZE:	•						<u> </u>	-10			
CORE RECOVERY	METRAGE	DESCRIPTION	bedd'g angle joint spacing		LOG SCALE:	PLE No.	yed length	_		SSAY ? . (? . (JE I	
CORE	METR		Core b	,	1:600	SAMPLE	Assayed	Cu	125	Zn		·	· !
	_0												
l		SO/4; Drange soil a calcule				85673	3	35	420	60			
l	- 3 /-	GRAVEL: 3m to 7.5m		ė .	_	15674	3		Ldu	30			
	۱ ۱				-	85675	3	15	420	i——			
	- 9	TREGOLANA SHALE : 7.5 m to 64 m			=	85676	3		<20	45		. 7	
	- 12	INEGOVANA SALVES I SALVES			-	85679	3		120	45			.
	-15	7.5 to 34 m: Red/brown chocclablik			-	85678	3	10	<20	50			
	- 18	Micaceus mudstone.		- ~	: =	85679	3	5	120	45			
	_ 21	Non-calcaeous.	•		·	85680	3	ري	420	80	· ·		
	- 2 ¢	110/1 - amiltonia a			-	85881	3	10	<22	60			
	- 27			`_ -		P5682	3	40	120	60			
	<u> </u>		·	` -	_		3		₹25			\vdash	
	- 34				• • -	85683	3	10 15	 	65'			
	- 37	7 / / / / /			-	856 84	3		(20	60			
]	- 40	34 m to 64 m: As afore but			_	856 85	3	10	40	60	·		
	- 43	harder + & a steely			_	85686		5	46	55			
1	-46	cleavage face (mica).			_	85687	3	10	<20	55		1	
	- 49			~		81288	3	15	120	60			
1	- হ্য				-	85689	3	15	25	55			<u> </u>
!	- 55					858 90	3		<20	60			
	- 5P				-	15691	3	jo	حيى	535	,		
1	_61				_	85692	3	5"	<20	60			
	-64			-		85693	3	5	120	60			
	- 67	? WHYALLA S.S. : 64m to 93 m				85694	3	65	Kdo	50	·		
	- 7s	64 - 93 or: Green fine grain s.C.				85695	3	30	120	50.			
	- 73	at siltshone				85696	3	/0	120	50			
i	- 15 - 76	67m: Water table (300gal/hr)				85697	3	50	420	40			
						85 698	3	15	20	45			
	- 79	N.B. Mudstone chips in samples are		•	_	85699	3	15	30	40			
	- 82	Probably contamination.		•		85700	3	10	40	85			
	- 85					85701	3	/0	220	80			
	- 88			•		25702	1	10	45	60			,
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HOLE No. EX 44

PAGE | OF |

PROJECT No. 405 PANDURRA PROJECT AREA: COMPLETED: SPUDDED: 8-11-73 5- 11-73 " ILLEROO" LOCATION: CO-ORDS: X: 92.015 DIRECTION: INCLINATION: V **ELEVATION:** TOTAL DEPTH: 79.9 m ٧, HOLE TYPE: DRILLING CONTRACTOR: ROTARY AFRAC DRILLER: A. TAYLOR BIT SIZE: TO LOGGED BY: N G T TO TO

LC	GG	ED BY	Y: D.G. T. DATE: BIT SIZE:	то		<u> </u>	<u> 10</u>			•	TO		_	
_	- ح			10-	r									
	CORE RECOVERY	ETRAGE	DESCRIPTION	bedd'g angle joint spacing		LOG SCALE:	SAMPLE No.	Assayed longth			SSAY		JE	· · ·
	CORE	METR	DESCRIPTION .	Core be	1	1 : 600	SAMP	Assaye	Cu	Pb	12n			
		o	So/2 0-3			,	85871	3.05	,Z0	4,20	4.0			
		- (s	CLAY 3-21				8 7 え	»		120	40			
		- 9	3-6 Sticky hard red.	1			273	и	15	25	ر 3			
		_ 凡	6-12 Britle, green/white]		٠	874	4	5	æ	Q5"			
		_ <i>(</i> 5^	12-18 Khaki chijs			15-	875	. 4	10	20	<u>ن3</u>			
1.		- 18	18-21 Mustard Chips	ł			276	4	5	(درچ,>	30			
		- 21	YUDNAPINNA BEDS ?: 11 - 79.9			_	279	и	15"	ત્રેછ	40 30			
		- 24	21-30 Sillst: shaley micaceous browns	1 .			₹78 8.79		/U /S	رين رين	65			
		- 27	7			-	9.20		10	(20	70			
		<u> </u>	10 - 32 Sandel Garaleasy Can & Ounh lethics	1 .		3v	. 881	4	1	2.20	25			
	ı	- 34	37-41 Sillet sheley have som	1		-	813	,	10	4.2r	35			
		- 37	Ab 49 Smilet come Cine commed	1		-	183	-	1	くむ	40		·	
		- 40 - 43	1 1 2 -9 0111 1 1 2 2 1 1112 1				284	4	,-	(20	35`			
	ı	_ 46				-15-	885	*	10	420	35			
1	٠.	_ 49	58-79A Siliction Condu AMANA		_	","	388	*	10	20	23"			
1	- 1	- 52	green hard				887	4		<.20	25			
	١	- 55					คริเ	ıt.	.25	35*	35.			
1		- 53	Av.	}	. —		889	h	jo	1,20	ρo			
1		_61		1		60	990	u u	1	€¿S	40			
1	ı	- 64					891 891		1	1,20 4,20	30 10			·
	ı	- 67	Hole abandoned : slow	1			84x 893		15	ربي حد <i>ي</i>	:20			_
	١	- 70	penetration (3m/hn)				894	·	:	∠یی				
1		- 73	Test (3.1)	i i	<u>-</u> -		895	.,	:20	ŝο	٠			
ľ		- 76				20.0		3.66	-	7.20	.2c			
1		- 7g				79.9								
			END HOLE.				·					٠.		
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			66-69 Petrography BHR 127/75			_								
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HOLE No. EXS

PAGE / OF /

405 PROJECT No. PROJECT AREA: PANDUMAA COMPLETED: SPUDDED: 14 - 11 - 73 - 11 - 73 CO-ORDS: X: "ROOPENA" LOCATION: ELEVATION: DIRECTION: INCLINATION: V TOTAL DEPTH: 64 m DRILLING CONTRACTOR: AFRAC HOLE TYPE: DRILLER: R. TAYLOR ROTARY

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RECOVERY	GE		dd'g engle nt specing		roe	, Š Ž	d length		^	SSAY		JE	1
CORE R	METRAGE	DESCRIPTION	Core bedd and joint		SCALE: 1:600	SAMPLE	Assayad	Cu	185	Z.:	·		1
	- o		:					ļ	<u> </u>				Ī
	- 3	SOIL: 0-3 m			0-	86140	3.05	20	<20	45			Ι
	- 6	PANDURAA FORMATION : 3-64		· . ·		141	"	İσ	<20	25	١٥		I
	- 9	3-6 Purple-grey s.s.		•		142	ч	10	<20	35			1
	- 12	6-12 Red/brown (igreen) fine S.S. chips			_	143	4	5	K20	25			1
	_ 55	12 - 15 As above + minor Gauler Vokanc pelbles				144	-	10	<20	_			1
•	- 18	15 - 18 Purple & while s. s. Sphanical stz. Ahurdand volcanics		3 ,		145	,	/0	<20				1
	- 21	18-21 As above & fewer Gauler Ricanic publies		· · ·	_	· 146	¥	10	<২০				\downarrow
		21-24 Redibrown coarge S.S. i round volcance asta pollles				147		15	_	85		·	1
	27	24-255 Purpletulite S.S.	:	- /		142	ü	_	· ·	65			+
	3∞	25.5 - 41.5 Shaley sill stone, ned -			· . —	. 149	-		<20	-			\downarrow
	_ 34	green, micaceous.		_ ,	_	150	4		<20			<u> </u>	+
	- 37				_	151			120				+
	- 40	41.5 - 43 Conglomerate Finegr, 4/2 politic	. :	0 000	-	152,	"	/0		35			+
	- 43	43 - 64 Sandy sillstone		· , ;		153	*1	10	<20	\vdash			ł
	<i>4</i> 6	42-58 Pumple a white		·		154	۳.	/0	<20	30			ł
	49		. • :	•	_	155	٦		<2u	25			+
	- 52			· -	-	156	4	15	<20	40	-		ł
	- 55	58-61 Pumpleish s.s. & sillet chies			-	157	٠,		<20 <20	1			t
	- 58	58-81 TURPIEISM S.S. & STITET. EMILES		<u>-</u> , ا		158 159	·						t
	— 61	. 61-64 Purple/brown glacse s.s.		-		86 160			-	15			t
٠	- 64	10 100 1001 -112036 2.3.			61_	05 750		,,,	\w	1			Ì
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	-	N.B. Very hard drilling from 24 m.											1
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HOLE No. EX 64

PAGE | OF |

PROJECT AREA: PROJECT No. 405 PANDURRA SPUDDED: COMPLETED: 6 - 3 - 74 6 - 3 - 74 LOCATION: TREBALANA "
21.859 DIRECTION: CO-ORDS: X: Y: ELEVATION: INCLINATION: TOTAL DEPTH: 70.1 m DRILLING CONTRACTOR: THOMSON HOLE TYPE: DRILLER: G. SCANLON ROTARY

roe	SED B	Y: D.G.T. DATE: BIT SIZE: 12/ mm	TO -	0.16	n. BLAO	6 TO 70	1 m			TO	·	_ _	
CORE RECOVERY	GE	DECORPORTION	dd'g angle nt spacing		roe	ė Z Z	d length		^	SSAY P. P.	VAL		
CORE	METRAGE	DESCRIPTION	Core bedd and joint		SCALE: 1:600	SAMPLE No.	Assayed		ļ				
			<u> </u>				\vdash	Cu	PL	Zn	-	\vdash	+
		SAMD 0-6			3.05	86259	3.05	20	30	30	 		
				·	6.10 -	260	· · · · · ·	T	30	30		Г	
		WHYALLA S.S.? 6-12			9.14 -	261	·	jo	40	20			
	-	5.5. decomposed, redambile, clayey, angular grains		j: 11 ,	12.19 -	262	ı.	10	20	20.	<u> </u>	L	
	<u> </u>	MAGAZINE CLAY 12 - 36	·		1524-	263	٠,	15	30	25	<u> </u>	<u> </u>	_
	-	12-18 Clay, sandy, white	•		18.29 -	264	٠	15			├	 	-
•	}	18-24 clay, less sandy whiter.			21.34 -	265	- <u>`</u>	10	20	10	\vdash	\vdash	\vdash
	-	24-27 clay puggy while.			24.38 -	266 267	,	10	30	15	-		}
	ŀ	30-36 Clay, grey			27.43 -	268	*	10	40	15			
	_				30.48	269		10	40	20			\vdash
	-	. :			33.53 -	270		10	40	30			\vdash
	 	"YUDWA PINNA BEDS"			36.58 -	271	-	10	40	30			
	-	36-56			39.62 -	272	•	10	20	40			
		Shale, fawn, weakly calcareous	·	<u> </u>	42.67 -	273	•	10	40	30			
				-	45·72 - 48·77 -	274	ų	10.	40	30			
	-				31.82 -	275	<u>, , , , , , , , , , , , , , , , , , , </u>	10	30	30			
	-	· · · · · · · · · · · · · · · · · · ·		• •	54.86 -	276	u	20	30	30			<u> </u>
	· -				57.91	277	11	60	20	35			L
	_	WOOCALLA DOLOMITE			60.96 —	- 278	٠	280		90			<u> </u>
	- !	st-60 56 - 90 A Shale, grey calcaneous + minor dolumile	•		64.01 -	279		60	50	75°	-		
ł		60-70 Shale, black dolomitic	. 1		67.06	280		20	60	60		\vdash	
	-	60 - 70 Silver , Silver , Margarite	-	_	70.10	86281		000	00	-			_
	-	END OF HOLE	l		_								
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	_	N.B. Water flow at 66 m & 4000 gal/hr.					. [
	_	Very salty water.					ŀ						
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HOLE NO. EX 65

PAGE | OF |

PROJECT No. PROJECT AREA: PANDURRA 405 SPUDDED: COMPLETED: 8-3-74 8-3-74 CO-ORDS: X: Y: LOCATION: * MIDSLEBACK DIRECTION: INCLINATION: ELEVATION: TOTAL DEPTH: 61 m. ٧ DRILLING CONTRACTOR: THUMSON DRILLER: G. SCANLUN HOLE TYPE: ROTARY

LOGG	SED BY	ED.G.T. DATE: BIT SIZE: W/ MM	to 6	/ M .	BLADE	10 4/	М.	RULL	can	TO, 6	51 m	 -	
CORE RECOVERY	GE	DESCRIPTION	dd'g angle int spacing		roe	o Z W	d length		A	SSAY P.P.		JE	
CORE R	METRAGE	DESCRIPTION	Core bedd		SCALE: 1 : 600	SAMPLE	Assayed	a	Ph	Zn			}
						<u> </u>		2					
		Soil 0 - 3			3.05 -	86283	3.05	20	40	50			
		GRAVELS CLAY 3-6		ر ه	6.10	284-	,	20	60	30			
ł	L	PANDURGA FM. ? 6 - 61		• • •	9.14	285	•	ر/	45	20			
	L	6-9 Decomp. S.S. punkish sand anhibe clay	•	• •	12.19 -	286	1	10	20	15			
	L	9-12 Decomp S.S. Beige Sanda clay			15-24-	287		/0	30	15			-
	ļ.	12-15 Decomp. S.S. Punkish Sand a day	ł	1777	18.29 -	288		/3	20	30			
ł	-	15-18 Silcrete.	}	201211	21.34 -	289	-1	15	20	15			-
	-	18-21 S.S. clayey, rounded grains 2-5 mm		٠,	24.38 -	290	-	/0	30	15		$\vdash \vdash$	
		21-24 S.S., clayay, while, conse 24-27 S.S., Soft & while, i punh grams			27.43 -	291		10	30		\dashv	-	
		27-30 S.S. soft & while country grams			30.48	292	٠,	10	40		\dashv		
	-	30-36 SS. Svalzose, such rounded course.		•	33.13	293 294		10	4.20				
	F ·	36-42 5.5. 5mm milky g/2+1-2mm clear g/2.	•	• •	36.58 -	295	-	/o	420	10			
		42-52 S.S. pinh grains as above harge		. ,	39-62 -	296	-	10	20	jo			
l ·		grains raunded small not rounded.				297	7	5	420	jo			
		52-55 S.S. prik, Round gtz up to 8 mm.			45·72 — 48·77 =	298	4	5	40	10			
		Amor red shall chips.		: ;	51.82	299		/oʻ	40	15			
		55-61 As above . V. red Sample, poss.			54.86	300	-	10	30	20			
	_	because of red shall bands. V. hard.		,	57.91 -	301	<u> </u>	10	20	15			· —
	_				60.96 —	302	-	10	30	/0	\dashv	$\vdash \vdash$	
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	-	END OF HOLE			-	·							
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HOLE No. EX 93

PAGE PROJECT AREA: PROJECT No. PANDURRA 405 SPUDDED: COMPLETED: 22 - 3-74 22 - 3 - 74 "CARRIEWERLUS" INCITADOL CO-ORDS: X: 82.949 DIRECTION: ELEVATION: INCLINATION: Y TOTAL DEPTH: HOLE TYPE: DRILLING CONTRACTOR: DRILLER: G. SCANNON ROTARY THUMSON

LOGGED BY: D.G.T. DATE: BIT SIZE: /21 mm TO TO TO												<u>-</u>	
CORE RECOVERY	GE.		dd'g angle		roe	o Z	l length		A	SSAY P.P	VAL	UE	•
CORE	METRAGE	DESCRIPTION	Core bedd		SCALE: 1 : 600	SAMPLE	Assayod	C.	P/	Zn			
		-			1 0-						·		
	-	TREGULANA SHAKE 0-42		\vdash	3	86584		1	1		-	_	\downarrow
	Ĺ	0-17 Chocolate shale, sall micaceous		<u> </u>	6-	585 586	4	10 15	30	65 70			+
	-	cleanage Mmon greenish-grey fine S.S.			9 - 12 -	587	,	10	40	60			Ī
	-	bands, widening with depth & harder.			15-	588	ч:	15		50		-	+
٠.	f	17-20 S.S., fine graned, green-gray			. 18- 21-	589 590	4	15 20	30 20	65°			Ť
		silicified hard.		_	21- 24-	59.1	1	15		45			I
	-	22 - 22 Charles of th			27-	_592	-	10	40	40		<u> </u>	\downarrow
		20-33 Chocolate Shale, micaceous, +		1	3o —	593 594	7	30	40	35 ⁻			+
		33-42 sandstone V. fine great Conserver			33 - 36 -	595	u	150		30			L
	- :	silicited is hard Pink lithic grown. Then while s.s : buff makin Hard Dub?			. 39 -	596	4	210		30			 -
	-	where s.s.; got marting. Hand Ewh:		S 1.	42, -	86597	.	130	30	30	•		H
		END OF HOLE			_						•"		
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	_ `	9-12m Petrography PMR 29/75 PMR 127/75			-								
		15-18" - PHR 29/75, PAR 127/75											
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HOLE No. EX 100

PAGE 405 PROJECT No. PANDURRA PROJECT AREA: COMPLETED: 26 - 3 - 74 SPUDDED: 26-3-74 " MYALL CREEK " CO-ORDS: X: LOCATION: INCLINATION: Y TOTAL DEPTH: DIRECTION: ELEVATION: 9 m. DRILLING CONTRACTOR: THOMSON DRILLER: O. SCANLON HOLE TYPE: AOTARY BIT SIZE: 121 mm .TO LOGGED BY: D.G.T. DATE: TO CORE RECOVERY ASSAY VALUE LOG SAMPLE No. METRAGE P. P.m. Assayod DESCRIPTION SCALE: 1:600 an Pb SAND SOIL GRAVEL 0-3 86701 GAWKER RANGE YOLCANICS 3-9 702 10 40 120 130 Weathered Purple/orange Abate. 86 703 40 10

OF HOLE

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HOLE No. EX 101

PROJECT AREA: PANDURAA PROJECT No. 405 COMPLETED: SPUDDED: 26.3.74 26.3.74 *CARRIEWERLOD" CO-ORDS: X: LOCATION: Y: TOTAL DEPTH: 46.5 m. 129.988 DIRECTION: INCLINATION: ELEVATION: ٧. ROTARY . DRILLING CONTRACTOR: HOLE TYPE: DRILLER: G. SCANLON THOMSON

DESCRIPTION DESCR	roge		T: D.G.T. DATE: BIT SIZE: 121 mm	то	O TO								_		
GRANGE CLAY CYPSUM 0-3 SANDSTONE (PARONARA) FM. 7) 3-45" 3-6 Silecte a situativa & s. 3-7 Estable and silectifus & s. 3-7 Estable and silectifus & s. 3-7 Estable and silectifus & s. 3-7 Estable and silectifus & s. 3-7 Estable and silectifus & s. 3-7 Estable silectifus	ECOVERY	GE	2	.0 🔓			м S o.	d longth							
SAMESTONIC (PANDERAPER) 33 - 45 SAMESTONIC (PANDERAPER) 70.73 - 45 3 - 6 Silverte a silver field \$5. 3 - 6 Silverte a silver field \$5. 3 - 6 Silverte a silver field \$5. 4 - 15 Hood 55. 4 - 15 Hood 55. 4 - 15 Hood 55. 4 - 17 - 10 30 20 706 - 10 30 20 707 - 10 30 20 708 - 10 30 20 709 - 10 3	CORE R	METRA	DESCRIPTION	Core be			SAMPL	Assayo	a	PL	ゴハ	V			
SAMESTONE (PANOVRAN FM.?)3 - 45 3 - 6 Silvertle in silvertical s.s. 3 - 6 Silvertle in silvertical s.s. 4 - 15 Varieties of livertle s.s. Representative of the silvertical sequence of the silvert						0-								_	
3-6 Silerate a silentical SS. - 7 Frindle punk fruit SS. Apparente Ball 9 106 15 to 20 12 707 10 30 20 13 707 10 30 20 15 24 Violat freely SS. Remaid clay Could grains 15-24 Violat freely SS. Largue (spatian) grains remaided. Punk litter grains 24 70 - 5 20 55 32 - 10 - 5 20 55 34 70 - 5 20 55 24 70 - 5 20 25 24 70 - 5 20 25 24 70 - 6 20 25 24 70 - 6 20 25 24 70 - 6 20 25 25 20 20 36 713 - 6 20 20 37 10 - 6 20 30 37 10 - 6 20 30 38 70 - 6 20 30 39 70 6 6 20 412 - 6 6 6 20 412 - 6 6 6 20 413 - 6 6 6 20 414 - 6 6 6 6 6 70 415 - 6 20 30 416 - 5 6 6 70 15 30 40 20 416 - 5 6 70 15 30 40 20 417 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		-		-	11141	.3 -	6	ł	30					_	
9-15 Varieto provide SS. Represente Rule 9-15 Varieto provide SS. Remised clay Could grown on the little grown of the state of the st		- '			1777	6 -			;	_	1				
Gold grains 15-24 Vield Grable S. Large (platerin) Grandmass Tr. of heavy mineral 30-45 Pinh gr. grains in gety Grandmass Tr. of heavy mineral 30-45 Pinh gr. grains in gety Grandmass Friedle Course 142-45 Gasel Fried Course Contact grand while the provide Gray 42 Tr. 10 20 20 30 713 10 20 20 31 Tr. 10 20 20 32 Tr. 10 20 20 33 Tr. 10 20 20 34 Tr. 10 20 20 35 Tr. 10 20 20 46 Tr. 10 20 20 47 Tr. 10 20 20 48 Tr. 10 20 25 48 Tr. 10 20 25 48 Tr. 10 20 25 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 20 48 Tr. 10 20 48		-				9 -		-	1						
Could ground 15-24 Violed fraktiss. Large (sperium) grandmiss. The special regions 321-32 Coord purple grains in gray grandmiss. The special regions 30-45 Pinh 92 grains in gray grandmiss. Friends Course. 30-45 Finh 92 grains in gray grandmiss. Friends Course. 42-45 Good Annee Pyride Gray CONCENDIERA FATE (PANDURRA FATE) UF-46.5 Fine (Sam) while the public Course. Ward Associated from Public form Public form Ward for and the provide minutes of the fine form while the fine form while the fine form of the		-	6-9 Frinkle zmhfpurkle s.s. Appearance lander	r i		ル-	1	,	1	T -				-	
15-24 Violet frakess. Larger (pterma) Grand particle grained in glady Grand particle grained in glady Grand particle grained in glady Grand particle grained in glady Grand particle Grand in glady Grand particle Grand Grand particle Grand H2-45 Grand trace pyride. Grey CONGROMERATE (PANDURRA PARTICLES) Fine (Grand) while ship-pablic cangions. Particles in 2-3 amorbigs Winder table. Erro OF HOARE 170 - 5 620 15 141 - 10 20 25 171 - 10 20 20 30 713 - 10 20 20 31 714 - 10 20 20 32 715 - 10 20 20 42 717 - 10 20 25 45 718 - 20 3 20 45 718 - 20 3 20 45 718 - 20 3 20 46 57 718 - 20 3 20 46 57 718 - 20 3 20 46 57 718 - 20 3 20 46 57 718 - 20 3 20 47 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3 20 48 57 718 - 20 3		-	` /				1 -		1		1			_	
Greins reunded. Puch little grains. 24 7/1 - 10 20 25 24 7/2 . 35 20 20 30 7/3 - 10 20 20 30 7/3 - 10 20 30 31 7/4 . 10 20 30 32 9 1/4 . 10 20 30 33 7/4 . 10 20 30 34 7/7 - 10 20 30 34 7/7 - 10 20 30 34 7/7 - 10 20 30 44 7/7 - 10 20 30 44 7/7 - 10 20 20 CONGLOMERATE (PANDURRA FM?) 45 - 46.5 Fine (Smm) while it is - public Conglom. Puch/blom Very hard. Goad street Pyrile in 2 : 3 mm chips Wisher hable. END OF HORE		-							T -	$\overline{}$				_	
24-33 Conset purple grains in grey grandmass. Tr. of being mineral 30-45 Pinh 92 grains in grey grandmass. Friells. Conses. 42-45 Gould Frie Pyrile. Grey CONGENDMENTY (PANDURAN PM?) 45-46-5 Fine (Cmm) while 12- Pablic Conglors. Purplessing Very hard. Grand stree Pyrile in 2-3-min chips Winder table. END OF HOLE.		7								1	1				
30 - 45 Pmh gr. grains in gray grandanss. Fredle. Conse. 30 - 45 Pmh gr. grains in gray grandanss. Fredle. Conse. 31 - 10 20 30 32 - 715 · 10 20 30 33 - 715 · 10 20 30 34 - 716 · 10 20 30 35 - 716 · 10 20 30 36 - 716 · 10 20 30 37 - 718 · 10 20 20 38 - 716 · 10 20 30 39 - 716 · 10 20 30 40 20 20 40 20		j	24-32 Carre proble arrive in alex					├		1	1				
30-45 Pink g2 grains in gray granulness. Excelle Conse. 33 715 · 10 do 30 342 716 · 10 do 30 42 717 · 10 do 30 42 718 · 20 30 25 CONCLUMENTE PTE (PANDURRA PM?)45-46.5 Fine (Simm) while 12- Pathle Conglism. Punk/blism Very hard. Good virue Pyrile m2-zimm. chipt Whater table. END OF HOLE 45 86 719 1.5 30 40 20 200 46.5 46.5 46.5 77 705 PH Water Andrew Prile m2-zimm. chipt Water Table.					,									-	
Grandmass. Eredle. Conse. 36 715 10 20 20 37 10 10 20 20 42 717 10 20 25 42 718 20 30 20 Conscionage ATE (Pandura Printe. Grey Pri			30-45 Pink 62 arano in grey						1						
42-45 Gard Frace Pyrite. Grey 142 CONGLOWERATE (PANDURRA FM?)45-46.5 Fine (5mm) while.sp. petble Conglorn. Puntyblosus. Very hard. Good Frace Pyrite in 2-3 mm chips Winter table. END OF HOARE 4308 C. 20 TOS PH 1840 PB 98 98 98			grandmass. Erielle. Conse.						is	1	_				
42 - 45 Gard Frace Pyrite Grey (y) 42 718 . 20 30 20 CONGLOMERATE (PANDURRA PM?) 25 - 266.5 Fine (5mm) while 42 - Pable Conglum. Punk/bloom Very hard. Good where Pyrite m 2-3 mm olips Winter table. END OF HORE		ī.		. 1			I	,	10	do					
42-45 Gard Hace Pyrile Gay (y) CONGLOMERATE (PANDURRA FM?) 45-78 Fine (Smm) while 12-12-pehble Conglom. Punh/bloom. Very hard. Good trace Pyrile in 2-13-min chips Water table. END OF HOARE. 45 7/8 . 20 30 20 46.5 867/9 1.5 30 40 20 200 46.5 867/9 1.5 30 40 20 200 46.5 867/9 1.5 30 40 20 200 46.5 867/9 1.5 30 40 20 200 46.5 867/9 1.5 30 40 20 200								,	10	20	_				
CONGRATE (PANDURRA FM?) 45-46.5 Fine (5mm) while.s.p pable Conglorn. Punt/bloom. Very hard. Good wace Pyrile in 2-3 mm chips. Winder table. END OF HOME. 86.519 1.5 30 40 20 200 46.5 46.5 46.5 Water table.					/ • ··		718.		20	30	20				
Fine (5mm) while a 12-1 Pabble Canglorn. Very bloom Very hard. Good trace Pyrile in 2-3 mm olips. Winder table. END OF Holds. U308 C. Zn TOS PH PR. PR. PR. PR. Y		- .		' /	000		86719	1.5	30	40	20	200			
Wasel table. END OF HOLE Wasel C. Zn Tos PH PR. PR. PR. PR. PR. PR. PR. PR. PR. PR.		_	Fine (5mm) while 4/2- pebble conglors. Punh/blows												
# # # # # # # # # # # # # # # # # # #						_									
43.08 Cm. Zn. TOS PH.		-	•			-									
WATER 403 405 %			END OF HOME		. :	· - 			ŀ		. ,		.		
WATER 403 405 %		-				; -									
WATER 403 405 %		-													
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WATER 403 405 %	•	_								7.	TNC	aul	,		
A6m SAMPLE 10 <10 <10 4-27 7.0		_				_		PPA	PPS	PPS				_	
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HOLE No. EX 102
PAGE | OF 1

PROJECT ARE	A: PANDUARA		PRO	DJECT No.	405	
SPUDDED:	27- 3-74	:	co	MPLETED:	27-3-74	
LOCATION:	" CARRIEWERLOU "		co	-ORDS: X:	Y	:
ELEVATION:	DIRECTION:		INCLINATION	: <u>v</u>	TOTAL DEPTI	t: /5" m.
HOLE TYPE:	ROTARY	DRILLI	NG CONTRACTOR:	THOMSON	✓ DRILLER	:- G. Scandon
LOGGED BY:	D.G.T. DATE:	BIT SIZE: 1	Al hm. TO		TO	ТО

LOGG	ED BI	1: D.G.T. DATE: BIT SIZE: 121 mm.	-			10			_				
CORE RECOVERY	METRAGE	DESCRIPTION	Core bedd'g angle and joint spacing		LOG SCALE:	SAMPLE No.	Assayed length		A :	SSAY P.P	VALU	IE .	
Ö	ž		ပို့		1:600	√ s	₹. 	a	Pb	Zn			•
	-	SAND CLAY GRAVER 0-6			0 — 3 -	86720			40	40			
	-	PANDURAA FORMATION 6-15		٠,٠,	6 -	721	is 4	20 20	20	30			
		6-9 Wenthed Pentina? 9-15 Red coase of the & while mutin Hard		• • •	9 -	123 86724	7 1		30 30	25			
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HOLE No. PAGE

PROJECT No. PROJECT AREA: 405 PANDURAA COMPLETED: SPUDDED: 2<u>7- 3- 74</u> LOCATION: "CARRIEWERLO" CO-ORDS: X: Y: INCLINATION: TOTAL DEPTH: ELEVATION: 139.109" DIRECTION: 18 m.

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GGED BY	TED G.T. DATE: BIT SIZE: 121 mm.	10			-10			•	10		-	
METRAGE	DESCRIPTION	Core bedd'g angle and joint spacing		LOG SCALE:	SAMPLE No.	Assayed length		^	ssay <i>Pl</i>	VALU	E	_
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 -	Chay (Weathered volcanic) 5-9	1	7 7	9 -	748		25	40	25			
-	GAWKER RANGE VOLCANICS 9-18	1	✓ ,,	12-	749	4	20	50	25			
-	Fawn, posphyrilic volcanic	1	7,	15-	750	È	20	30	40	\vdash	···	-
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HOLE No. E^{0}

PROJECT No. PROJECT AREA: 405 PANDYARA COMPLETED: SPUDDED: 28-3-74 28 - 3 - 74 CO-ORDS: X: LOCATION: "CARRIEWERLOO INCLINATION: TOTAL DEPTH: ELEVATION: DIRECTION: 18m DRILLING CONTRACTOR: THOM SON DRILLER: G. SCANKON HOLE TYPE: ROTARY BIT SIZE: 12/ mm TO LOGGED BY: D.G.T. DATE: CORE RECOVERY Assayed length ASSAY VALUE LOG METRAGE Ppm DESCRIPTION SCALE: 1:600 Pb SAND 86752 10 30 30 SILCAETE 153 2o 20 6 Off-white Poss altered volcanic. 754 20 20 9-12 CAAY (Wanthered Volcanie) 25 755 40 12 GAWLER RANGE VOLCANICS 12-18 756 20 5 40 12-15 White clay a weathered arange volcanic 86757 5 30 20 15-18 Orange/purple porphyrilic volcanic END OF HOLE

HOLE No. EX 107

PROJECT No. PROJECT AREA: PANDURGA 405 COMPLETED: 28-3-74 SPUDDED: 28-3-74. " CARRIEWERLOO" CO-ORDS: X: LOCATION: TOTAL DEPTH: INCLINATION: DIRECTION: V 33 m. **ELEVATION:** DRILLING CONTRACTOR: THOMSON DRILLER: G. SCANLON HOLE TYPE: ROTARY TO LOGGED BY: 0.6 T. DATE: BIT SIZE: 121 mm TO bedd'g angle joint spacing CORE RECOVERY length ASSAY VALUE LOG P. P. M. METRAGE Assayad DESCRIPTION SCALE: 1:600 Cu Pb Zn 0 86758 3.0 SAND CLAY GYRUM 25 40 3 759 GRAVEN 30 30 10 7-10 SANDSTONE Soft yellow 760 15 20 25 9 10- 12 SILCAETE / FERRICAETE_ 20 10 20 761 12 <u>20</u> CLAY 12 - 30 762 5 15 15. 163 10 30 40 12-18 White Hen variculoured silicified 18 5 764 40 50 clay chips. 21 18-30 Green clay & white readin planwaysts 765 <2 30 65 24 60 50 Weathered volcomic Green mafic 766 ۷2 27 767 60 60 5 Phonocoysts. 30-<2 30 60 GAWLER RANGE VOLCANICS 30-33 86 768 33 Green a purple weathered volcanic END OF HOLE

HOLE No. EX 108

PAGE | OF

PROJECT No. PROJECT AREA: 405 PANDUARA COMPLETED: SPUDDED: 28.3.74 28.3.74 CO-ORDS: X: Y: LOCATION: CARRIEWERLOO" INCLINATION: TOTAL DEPTH: **ELEVATION:** DIRECTION: 33 m. DRILLING CONTRACTOR: THOMSON DRILLER: G. SCANLON HOLE TYPE: ROTARY

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HOLE No. EX 109

PROJECT No. PROJECT AREA: 405 PANDUARA COMPLETED: SPUDDED: 29.3.74 28.3.74 CO-ORDS: X: LOCATION: " CARRIEWERLOO " INCLINATION: TOTAL DEPTH: DIRECTION: ELEVATION: DRILLING CONTRACTOR: THOMSON DRILLER: G. SCANLON HOLE TYPE:

HOLE	TYPE:	ROTA	AY		LLING CONT		JK: -	THOMSON		RILLE	R: G	· Sc		~	_	
LOGG	ED BY	: D.G.T.	DATE:	BIT SIZE	: 121 mm	TO	•		TO		•	<u>. </u>	то	,	-	
CORE RECOVERY	METRAGE	DESCRIPTION			re bodd'g angle nd joint spacing		LOG SCALE:	SAMPLE No.	Assayod length		A:	SSAY		E		
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HOLE No. EX 10

OF / PAGE PROJECT No. PROJECT AREA: 405 PANDURAA COMPLETED: SPUDDED: 30.3.74 29.3.74 CO-ORDS: X: " CARRIEWERLOO " LOCATION: INCLINATION: N TOTAL DEPTH: 72 M **ELEVATION:** DIRECTION: DRILLING CONTRACTOR: THOMSON DRILLER: G. SCAWLON HOLE TYPE: ROT MAY LOGGED BY: D.G.T. DATE: BIT SIZE: 121 mm TO TO bedd'g angle Foint spacing RECOVERY iength roe ASSAY VALUE METRAGE P. P.m. Assayed DESCRIPTION SCALE: 1:600 Cu Pb Zn SOLL & GRAVEL 20 86 806 3.0 60 40 3 SILCHETE - 2 -4 30 20 809 10 PANDURRA_FM: 4- 72 808 30 9 4-12 Friable while s.s. 804 5 12 20 30 10 810 15 12-20 Friable pend/purple S.S. 811 20 18 Harau at 20 m. (Poss 25 20 812 10 21 reworked Pandyma Fan?) 25 20 813 20 24 La 20 20 20-24 Vary coarse at grains 814 27 Q0 puid proble metinos 815 30 -816 10 33 20 30 24-51 Course of in pufleus 8/7 15 nation. Some putches of 818 10 20 39 20 919 42 Matrix redder a c greenish 20 20 820 45 putches. Reasonably saft 10 20 821 48 (Poss remarked Parolure For 20 15 30 222 51 51 m. Water table. Matrix becomes 15 20 25 823 10 20 824 57 31-63 Red a while subraunded otz. + 15 20 30 825 60 -5 30 good frace of Heavy mineral 826 30 2o 20 30 63-72 As about + gover shale in the 827 828 20 25 bunds. Harder. 69. 86 829 END OF HOLE

