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# SADME STUART SHELF PROJECT

# DRILLHOLE STRATIGRAPHY COMPILATION USING DATA ACQUIRED UNTIL 31/12/1978

Submitted by SADME Regional Geology Branch and H. Trevena 1979

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### **NUMBER 9395**

# STUART SHELF PROJECT DRILLHOLE STRATIGRAPHY COMPILATION, 1979 TECHNICAL REPORT (DRAFT ONLY)

Submitted by

H Trevena 1979

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

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#### **ENVELOPE 9395**

#### **CONTENTS**

- A <sub>1</sub>			PIRSA NO.	:
REPORT:	Trevena, H., 1979. Stuart Shelf project. Dri 1979 (students report).	illhole stratigraphy compilation	9395 R 1 Pgs 3-15	
	List of drill holes with reference to source. S	Stuart Shelf survey.	Pgs 16-37	
PLANS	*	Scale	- 84	
Fig. 1	Drill hole location plan. Torrens.	1:250 000	9395-1	A2
Fig. 2	Drill hole location plan. Pt Augusta.	1:250 000	9395-2	A2
Fig. 3	Drill hole location plan, Whyalla-Burra.	1:250 000	Missing	
Fig. 4	Contours of Basal Sturtian, Torrens.	1:250 000	9395-3	A2
Fig. 5	Contours of Basal Sturtian. Pt Augusta.	1:250 000	9395-4	A2
Fig. 6	Contours of Basal Sturtian. Whyalla- Burra.	1:250 000	9395-5	A2
Fig. 7	Contours of Post Pandurra Cover, Torrens,	1:250 000	9395-6	A2
Fig. 8	Contours of Post Pandurra Cover. Pt Augusta.	1:250 000	9395-7	A2
Fig. 9	Contours of Post Pandurra Cover. Whyalla-Burra.	1:250 000	9395-8	A2
Fig. 10	Isopacha of Sturtian Sedimentation. Torrena	1:250 000	9395-9	A2
Fig. 11	Isopachs of Sturtian Sedimentation, Pt	1:250 000	9395-10	A2
Fig. 12	Augusta: Isopachs of Sturtian Sedimentation.	1:250 000	9395-11	A2
Fig. 13	Whyalla-Burra. Drill hole location plan. Northern Stuart Shelf.	1:1 000 000	9395-12	À2
Fig. 14	Contours of Post Pandurra Cover, Stuart Shelf.	1:1 000 000	9395-13	A2
APPENDIX 1:	Torrens 1:250 000 sheet. Drill hole elevation surfaces. Sturtian Isopachs.	ns. Depths to contoured	Pgs 38-47	
APPENDIX 2:	Pt August 1:250 000. Drill hole elevations, cand Sturtian Isopachs.	iepths to contoured surfaces	Pgs 48-55	
APPENDIX 3:	Whyalla /Burra 1:250 000. Drill hole elevati surfaces, Sturtian Isopachs.	ions, depths to contoured	Pgs 56-59	
APPENDIX 4:	Andamooka, Gairdner, Kingoonya, Billakal 1:250 000. Drill hole elevations. Depths to c		Pgs 60-62	
PLANS	Contacted and a Research Pt. A.	Scale	· · interfere	
Fig. 15	Geological section, Torrens, Pt Augusta.	1:250 000	Missing	
Fig. 16	Geological section, Whyalla.	1;250 000	Missing	
Fig. 17	Geological section, Whyana.  Geological section, Kingoonya.	1:250 000	Missing	
	Andamooka, Curdimurka.	11250 000	TTI GGIII E	

#### END OF CONTENTS

### SEPARATELY HELD DATA

#### TRANSPARENCIES (held in Document Storage Centre)

Plans marked with +T on contents page are also held as transparencies in Cylinder 9395/1.

[Note: extra transparencies on the Stuart Shelf project are held as transparencies in Cylinder 9395/2].

#### LIST OF CONTENTS

INTRODUCTION

GEULOGY

ECONOMIC HISTORY OF THE STUART SHELF

CONTOURING

RESULTS

STURTIAN ISOPACHS AND BASAL STURTIAN CONTOURS

POST PANDURHA COVER CONTOURS

DISCUSSION OF GEOLOGICAL SECTIONS

RECOMMENDATIONS

ACKNOWLEDGEMENTS

KEPEKENCSS

LIST OF DRILL HOLES WITH REPERBNCE TO DATA SOURCE APPENDICES

भ	PTGHR:	as.		·			000
	•		locatio	n Plan.	TORREK	S 1:250.000.	
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KINGOONYA. ANDAMOOKA, CURDIMURKA

1:250,000 Sheets.

17.

#### MOTTON

The Stuart shelf is an area of flat to gently undulating idelaidean sediments, bounded on the east by the Torrens Hinge wone and more strongly folded Adelaide Geosyncline sediments; and to the west by the outcrop of basement rocks of the Gawler cruton. To the south, the Shelf wedges out against the Tickera rault on Yorke reminsula, while to the north it is buried under successively younger sediments. For the purpose of this report the small area of Adelaidean sediments south of the Tickera Fault, (on Whyalla and Burra Sheets) is considered as part of the Shelf.

Sediments of the Stuart Shelf were deposited as platform cover to the eastern portion of the Gawler Craton, (Thomson 1976) ie. in a stable snelf environment adjacent to the Adelaide Miogeosyncline. The thinner, more restricted sediments of the Stuart Shelf can be correlated with their thicker counterparts in the Miogeosyncline proper. For both regions, sedimentation was terminated by the Delamerian orogeny in Mid Cambrian to Ordovician time. Effects of the orogeny were most marked in the geosyncline, weaker in the deeper cover areas of the eastern Stuart Shelf and almost neglible towards the western region of thinner cover.

#### GEOLOGY

The Older Adelaidean cover rocks of the Stuart Shelf, (with which this report is concerned) include representatives of the Callanna Beds, the Burra and Umberatana Groups.

Basal Adelaidean Cover of the Stuart Shelf is represented by the Pandurra Formation. This unit rests unconformably on pre .delaidean cover rocks and older basement rocks of the Gawler Grate. It is equated with the Callanna Reds of the Adelaide Geosynching.

The randurra Formation extends in the subsurface for the appority of the southern Stuart Shelf. (ie Forrens, Pt. Augusta

and whyalla sheets). Notably it is absent over most of the Andamooka Sheet, except at elympic Dam (ND-1, AD-3, RD-10) where it is rearring more than a new metres thick, and Deviation Dam (ND-2) where it attains a reasonable thickness, 73m+. It is well developed also in Kennecott's Prices, Peeweena and Playford drill holes, and in L. AD-1, LH DDH 1 and LH DDH 2 on Gairdner and Kingoonya Sheets. It is absent from all other northern areas of the Shelf.

The Pandurra Formation appears to be absent in the deeper regions of the Shelf associated with the Torrens Hinge Zone, ie SLT 103, which is south of the Tickera Fault.

The Formation was croded in part prior to the deposition of younger Adelidean units.

The interbedded Beda Volcanics and Backy roint Beds are correlated with the upper Callanna Sequence of the Adelaide Geosyncline, ie the wooltana Volcanics of Depot Creek.

For the most part they overly the Pandurra Formation, except in the east in SLT 103 and WHD 1 and on some parts of Northern Yorke Peninsula where they rest directly older basement.

The volcanics and their assciated sediments appear to be restricted to the southern shelf area as well as to the eastern side of the Pernatty Culmination. On Yorke reninsula, the association is restricted to the northern side of the Tickera Pault.

Burra Group Sedimentation is generally absent on the Stuart Shelf, except on Yorke Leninsula. North of the Tickera Fault, ameroo Hange quartzite and younger Burra Group sediments rest unconformably on either Landurra Formation or Sede Velenies. South of the Tekera Leult, ameroo Hange quartzite outcrops as the

eastern abuttment to the older basement areas of Yorke reninsula. In the subsurface it is penetrated in BDH 19 and Bute No 6.

The Umberatana Group of the Shelf is represented largely by the Talley Hill Formation, and locally by its basal members the woocalla Dolomite and the Mc Leay beds.

The Tapley Hill Formation is absent in northern regions of Shelf, ie north of the Torrens Sheet except possibly in SR 6.000 ft?: It is also absent on the Pernatty Culmination on the Torrens and Pt. Augusta Sheets. West and east of the Culmination it rests unconformably on the Pandurra Formation. Further east of the Culmination it rests unconformably on the Beda Volcanics. It is known in the subsurface on Yorke Peninsula.

The Umberatana Group is unconformably overlain by the dilpena Group. The dilpena Group is not considered in detail in this report.

# ECONOMIC HISTORY OF THE STUART SHELF

Copper deposits adjacent to the western shores of rematty Lagoon have been known since 1875, and have been mined at intervals since 1898.

Renewed exploratory interest in 1965 led to the discovery in mid 1972 of the Cattle Grid Copper Ore Body. This discovery further accelerated interest in the Stuart Shelf. The Cattle Grid and associated deposits provided a model for exploration.

Known copper deposits of the Stuart Shelf generally conform to a model of flat to gently undulating stratiform bodies, concentrated along disconformities. In the case of the Cattle Grid deposit, the mineralized disconformity is that between the whyalla bandstone and the randurra Formation, with mineralization being limited to the upper fractured portion of the landurra formation. The Fernatty Culmination as a positive structural

feature was considered an important influence for mineralization.

Thus favourable locii for mineralization were thought to exhibit certain controls which principally are

- (1) a positive pre-marinoan structural feature
- (2) a disconformable contact for migration of fluids and favourable depositional environment.

The Myall Creek Copper Deposits (between Myalla and Pt. Augusta) conform to this stratiform mode of mineralization concentrated along a disconformity. In this case the important disconformity is that between the Tapley Hill Formation and the Pandurra Formation with mineralization being carried at the base of the Tapley Hill Formation.

The discovery in 1976 of the Cu/U Mineralization at Olympic Dam on Moxby Downs Station has further accelerated exploratory interest of the Stuart shelf. Mineralization is limited to the upper fractured portions of basement rocks which present a positive structural feature within units of the Tent Hill Formation.

#### CONTOURING

Contouring of selected disconformable levels on the Stuart Shelf began in 1977, with a view to define locii for mineralization as well as provide a comprehensive stratigraphic framework.

Data source for this project was 5.12m and Company Drilling both Closed and Open File, (Appendix I,II,III and IV), available to date, (Dec 31, 1978). Stratigraphic interpretations supplied by the Companies were considered as correct. Heinterpretation where necessary we conducted by 5.1. Thomson.

an approximate RL is estimated from available topographic information. It is considered that RL's estimated in this way are adequate to display trends of contoured surfaces.

Contour intervals are 50 or 100m depending on distribution of information and closeness of contours.

Diagnostic Surfaces contoured were

- (1) the Base of Sturtian Sedimentation and
- (2) post Pandurra Formation cover.

Contour surfaces (1) and (2) coincide unless the Beda Volcanics and its associated sediments intervene, ie east of the Pernatty Culmination.

Hesulting contours are displayed on two scales:

(1) 1:250,000 scale and (2) 1:1,000,000 scale.

The 1/4 million scale plans are the Torrens, Pt. Augusta and Whyalla/Burra (ie Yorke Peninsula) Sheets. Published geological map sneets at this scale are used as base maps. Separate plans for each of (1) Base of Sturtian Sedimentation, (Figs. 4,5 and 6) and (2) lost Pandurra Formation cover, (Figs. 7,8 and 9), for the three map areas are provided.

The million scale plan covers the Torrens, Pt. Augusta, whyalla/Burra, Andamooka, Curdimurka, Billakalina, Gairdner and Lingconya map areas. The Ltate Geological Ap (Unpublished) was used as a base. Contours snown are the Lost Fanaurra Formation cover, ie various erosional surfaces within the Pandurra Formation, and where the randurra Formation is absent, erosional surfaces within the basement complex. (see Fig. 14)

reliability of contours is very good on the forrens,

It. Augusta and whyalla/Burra Sheets, where large numbers of drill
notes rovide good spatial coverage at both the 1/4 million and

l million scales. Contours on the remaining 1/4 million sheets can only be considered as interpretative at best. Drill hole spacing is sparse and scattered and there is little knowledge of the influence of buried tectonics on geology.

Drill Hole Location lans at 1/4 million and 1 million scales are provided, (Pigs. 1,2,5 and 15). Circled drill hole locations indicate that the RL for that hole is known and has been utilized as part of this survey.

#### Sturtian Isopachs

Isopach plans of the sturtian at 1:250,000 for the Torrens, Pt. Augusta and whyalla/Burra areas are also provided, (see Figs 10,11 and 12). Data for these plans resulted from the manipulation of arill hole information for surface contour plans. The isopach plans display real thickness's, ie are not interpretative. Contour interval is 20m for Torrens and rt. Augusta, and 50m for the whyalla/Burra Area.

#### RESULTS

# STURTIAN ISOFACHS AND BASAL STURTIAN CONTOURS

Considering Figures 4,5,6,10,11 and 12, (Torrens, Pt. Augusta and Ahyalla/Burra Areas), sturtian sedimentation is absent on the Fernatty Culmination, and the Western parts of the Pt. Augusta and Ahyalla/Burra Areas.

"est of the rematty Culmination, Sturtian Sedimentation is contained in a relatively shallow basin like structure which appears to deepen northward.

hast of the Culmination, Sturtian Sedimentation is contained in a wedge shaped structure, Striking approx. N-2. The wedge thickens eastwards and attains a maximum known thickness of approx. 300m adjacent to the Torrens Hinge Lone. Basal Sturtian contours

dip steadily towards the Hinge Zone, and reach a maximum known depth of approx. 600m.

POST PANDURAL CLYER CONTOURS

Basal contours of post Pandurra Sedimentation are shown in Figs. 7,8,9 and 14.

A simplicatic view of the Shell (Fig. 14) indicates that its sediments are contained within a broad wedge shaped structure. Actually, the wedge is modified by the Pernatty Culmination and a basin like depression further westward. The wedge strikes MS-NW, and deepens eastward toward the Hinge Zone and the Geosyncline proper. On the NE shores of Lake Torrens, MWD-1 indicates depths in excess of 728m below sea level to basal post Pandurra Cover.

The rematty Culmination is considered to be a positive structural feature of either Pandurra Formation or underlying basement units. It extends in a line of discontinuous Pandurra Formation outcrop from the Pt. Augusta Sheet to north of Lake windabout. Thence it continues northward in the subsurface through AD-1 as a subsurface high of Pandurra Formation. Between AD-1 and Olympic Dam, the randurra Formation disappears, ie has either been eroded or never deposited. However a basement high is known to underly Olympic Dam and PD1-A.

It is tentatively proposed, from the evidence of above data, that the basement high with which the Cu/U mineralization at noxby Downs is correlated, is a subsurface structural extension of the rematty Culmination in a no-hand direction.

west of the Culmination, post Pandurra Bedimentation is contained in a basin like structure which extends northward from the ft. Augusta Sheet Area. The basin deepens northward, and attains its deepest known point of -5302 in LH-L, west of Laze windabout.

### DISCUSSION OF GEOLOGICAL SECTIONS

The Cross section diagrams presented with this report serve to illustrate the basic structure and some of the stratigraphic relationships of the Stuart shelf which have already been discussed with reterence to the contour diagrams.

Fig. 15 is an approximate w to E section. It attempts to show the influence of the Pernatty Culmination in early adelaidean sedimentation, ie the saucer like depression west of the Culmination and the absence of any Beda Volcanism within it. East of the Culmination, the increasing total thickness of the post Pandurra Sequence, the inclusion of Beda Volcanism, and the eventual disappearance of the Pandurra Formation adjacent to the Hinge Zone are demonstrated.

Fig. 16, an approximate NS section attempts to illustrate differences between PP4 and PP6-PP12, particularly the absence of Beda Volcanics in PP4 and the absence of Tapley Hill Formation in PP6-PP12. Thus the exact structural between Tapley Hill Formation and the Beda Volcanics and associated sediments on this part of Yorke Peninsula is not known, as not one of the PP series drill holes penetrates both units.

Fig.17 is a geological section across the northern part of the stuart shelf scanning the Kingoonya, Andamooka and Curdimurka sheets. It illustrates the transition from thin flat lying sediments of the shelf to the thicker, folded sediments of the Hinge Zone.

#### ALCOMAENDATIONS

Further research of the kind this survey entailed, would be invaluable in the Northern Stuart Shelf area, where information at resent is sparse, and can only be reviewed as results of further exploration come to light.

In the Southern stuat smelf area, further research is warranted in the deeper eastern and hinge zone areas, but again is limited by exploration.

#### ACKNO "LEDGEMENTS

Initial interest of B.P.Thomson on the Stuart Shelf Area led to the initiation of the Stuart Shelf Project. Subsequent assistance and discussion with Mr. Thomson is gratefully acknowledged.

The assistance of Companies at present involved in exploration on the Stuart Shelf, in making data available is also acknowledged.

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CIST OF DRILL HOLES With REFERENCE TO SOURCE.

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ORILL HOLE DATA SOURCE : STUART SHELF SURVEY 0020 MAP AREA: ANDAMOOKA DRILL HOLE SML or EL AREA COMPANY REF ER ENCE EL 190 Andamodica Area Western Mining Corp. Utd 2883 I \_ep-3´ 2583 II RD-4 - RP-5 \_PD-6\_\_\_ <u> 2583 [ji</u> \_RD-7 ų <u> 20-8</u> ij 2583 W \_RD-9 11 \_RO-10 EL 190 Wastern Mining Corp. Utd Andamoota Area. 2683 I Stuart Geek Area Western Minining Cap Ha <u> BO-1</u> EL 23 ) 2714 EL 232 Arcoona Area. 2715 I TO-1. EL\_233\_ Lake Touens Area 2116 I L-GWW\_ - 4 PDL - A EL 260 Bill's Lookout Arm *2*003\_ JOO-1 ELZ79 Toda's Dam Area **2923\_** 

	•	MAP AREA:	•	0021
DRILL HOLE	SML or EL	AREA	COMPANY	REFERENCE
CAIRONER				
TH DOHT	EL 298	Lake Hart Area	kennecori Expl. (Aust) Ltd	3022
LH 00H 2	ti ti	n	h	11
KINGOONYA .	<u> </u>			
SR-7	EL 305	The Twins Area	Newmoni P/L a Dampier Min Colk	3031
<u>5R-9</u>	16	<u>n</u>	n	"
SR-15	ч	н	<b>1</b>	i,
TA 00# 1	EL 306	Lake younghusband	Dampler Mining Co. Ltd .	8030
PEEWEENA I		0 0	The state of the s	-0V3V
DRICES I				
PLAYFORD 1.	:			
Blunkalina .				
SR-1	EL 304	Danae Hill Area	Newmont Pil & Dampier Min. Co. Ltd	3017
sr-s	n .	н	11	4
SR-16		11	4	2)
SR-6	EL_335_	Margaret Creek Area		3096
S2-8	н		N	n 1
.୫୧ ୲୵	EL 327	Codna Hill Area	H.	3056
SQ-7.	EL 303	Birthday Hill Area	II.	2981
SR-3		,	Application to the control of the co	1)
SR-4	EL 326_	M. Sandy Area		30SS
SP-10	11	h	1	
S2-13	EL 341	William Creek Praa.	11	3092 3137
Warrinerd No.	EL 345	Mt. Puruiss Area	Kennecoti Expl. CAust) Ud	8137
LWARRINA				
Borthana	\ <u></u>		-	
Curdimurka			A property of the second secon	
	EL231	Stuart Creek Area	Wisiern Mining Coop Ltd	
			The state of the s	-84 1144
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DRILL HOLE DATA SOURCE : STUART SHELF SURVEY MAP AREA: TORRENS. 0022 DRILL HOLE SML or EL AREA REFERENCE ok q EL 81 OK II Pacininex Pty. Ltd. 2330 I OK 12 01/27 2330 V OK 28 OK 30 11 OK 31 41 ų OC 32 OK 35 26 OK 36 OK 38 OK 39 ıţ OK 41 OK 47 OK 43 Ot 47 Or 48 OK 50 11 2330 VI OK 52 LOK. 63 OK 54 ij -OK 56\_ Pernatty Logoon Area. Recommen Pty Ltcl OKST EL 199 2627 1 OK 58 OK 201 -OK 60 H 14 OK 62 DK 66 H 21 OK 67 4 OK 69 Ok70 li OK 75 11 ħ OK 76 ìi

ORILL HOLE DATA SOURCE : STUART SHELF SURVEY MAP AREA: TORRENS. 0023 DRILL HOLE SML or EL AREA COMPANY REFERENCE \_OK\_116 EL 339 Mt Gunson Area facminex Pty Ltd 3026 I \_OK\_117 OK 118 ıç OK IIQ OK 120 OK 121 OK 172 H \_C/L 123 OK 124 OK 125 OK 126 OK 127 \_OK\_128\_ OK 129 PL 6 EL 81 Pacminex Pty Ltd. 2330 JI PLH Resnatly Lagoon Area EL 199 2627 TV PL 33 EL 339 Mt Gunson Area 3026 T. PL 35 PL 36 . 16 \_PL 37\_\_ \_PL 38\_

PL 39	18	<b>1</b>	<b>u</b>	ı,
INI Trand in hoographic	EL 199	Pernatty Lagoon Area	Pacmines Pty Ltd.	2627 Ti
W4 (defining)	- 11	<u> </u>	The second secon	11
ws ahen only		11	Elemente de la companya del companya de la companya del companya de la companya d	11
W 19	Ec 199	Pernally Lagoon Area	Pacminex Pty Ltd	<u> </u>

MAP AREA : TORRENS 0024 DRILL HOLE SML or EL AREA COMPANY REFERENCE LW 28 Pernatty Lagoon Acea. Pacminex Pty Utd EL 199 <u> 2627 111</u> \_m 29 H ... ŧ L LW 30 u . LW 32 4 11 EL 339 Mt. Gunson Area Pacminex Pty Ltd \_LW\_34\_\_ 3026 T LW 35 4 LW 36 LW 37 jı. LW 38 LW 30 LW 40 LW 41 LW 42 LW 43 \_LW 44-\_LW 47 LW48 <u>\_w 51</u> LW 52 \_LW 53\_ LW 54 <u>Luss</u> MEI EL 81 Pacminex Pty. Ltd. 2830\_II\_ MF 2 \_MF 4\_\_ . MF S MF 6 MET 2330 VII ME.8 MF 9 ME ID MF 12 11

DRILL HOLE DATA SOURCE : STUART SHELF SURVEY MAP AREA: TORREN'S 0025 DRILL HOLE SML or EL AREA COMPANY REF ER ENCE MF 13 EL 81 Pagninex Pty Ltd. 2330 VII \_رما Sml 499 R.I. 42/1541 Noranda Ausi, Ud. LD2 103 LD4 н LDS\_\_ 106 LD 7 LOS 6334 M 1 EL 199 Pernally Lagaon Area. -Rocminex Pty. Ltd 2627 J 109 " M2 LO 10 11 M3 ti LO11 " M4 4 . 1012 " M5 н 1013 " MG is ¥ 4 1014 " MT u : LO15 " M8 1016 " MQ rţ LO 17. " MIO μ <u> 10 18 </u> 267J D LDIA ND 20 lı 102 ti. 11 LO 22 1023 11 4 2627 <u>V</u>I LU24\_ 4 4225 1026 Charlinga Area EL 333 h 3025 1 L027 11 L033 ħ

Noranda Aust . Ltd.

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DRILL HOLE	SMI AT EI	MAIP FIREM:		)27
	SML or EL	AREA	COMPANY	REFERENCE
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WP 41	- "	<u>h</u>		tı
WP 47	- 15	· A	K	4
WP 43	11	ч	А	h
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wp74	•	10	n	n
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DRILL HOLE DATA SOURCE : STUART SHELF SURVEY MAP AREA: TORRETUS. SML or EL AREA

0028 REFERENCE EL 338 Charlinga Area Pacmines Pty Ltd 3025 I BK3 BK 4 <u> 3655</u> \_BK 6 BKT BK8 BKq 3025 II BKIO BE 11 BK12 Pacmines Pty Ltd <u> 142</u> EL 8) 2330 V LY3 Emmie Bloff Area PEB 21 Australian Selection Coty) Ltd EL 252 2803 PEB 22 PEB 23 PEB 24 PEB 25 11 PEG 26\_ PEB 27 u PEB 28 PGB 20 P68 30 PGB 31 PEB 35 PEB 36 PEB 37 PEB 33 PEB 30 (SAEI)

DRILL HOLE DATA SOURCE : STURRT SHELF SURVEY

MAP AREA: TORRENS 0029 DRILL HOLE SMI or EL AREA <u>COMPANY</u> REFERENCE PRL 1 (SAR-2) EL 226 Red Lake Area Australian Selection (Pty) Utd. 2703 Per 2 PRL3 (SAE-Z) 11 PPLA (SAP-3) ц PRLS CSAR-41 PR16 11 11 PPLT (SAR 5) it 11 DEL 9 DRL 11 (SARG) И PELIZA ij PPL 13A IV. PRL 14 .PRL 15 н EX 146 EL 186 2564\_TV. 16 -EX M7 EX 148 EX Ma PSC 1 (SASC=1) | EL 261 Salt Creek Area Australian Selection CPty 1 Utd. 2662 PSC:2\_ PSC-3 05C-4 (SESC-2) Į) 11 PSC5 11 PSC 6 11 N PSC7 (SASC-3) u PSC-8\_\_\_\_ н PSC-9 u. PSC-10\_\_ 17 11 BEDA BORG SADIN 6334 COD WW 00029 WOOMERA ROZE Clarence River Basin Oil Co 6235 000 PWO0042

MAP AREA : TORRENS . 0030 DRILL HOLE SMI or EL AREA REFERENCE EL 301 PIL 3 (SAI-1) Island Lagoon Area Australian Selection (Pty) Ltd 2996 PIL4 PILS PILG PILT at : PILR PILG 21610 PICH Western Mining Corp Ltd EL 232 Arcoona Area 2715 EL 294 Woodforde Hill Area WHO-1 Port Augusta Pres BHO-L EL\_370\_ JCQ3\_ SHD-2 BHO-3 BHD-4/SIT IOL SUT\_102 SIT 103 St 104 Mt. Gunson Area EL 339 Pacminex Pty Ltd. 3026 M

DRILL HOLE DATA SOURCE : STUART SHELF SURVEY

0041:4066	ء مشد	MAP AREA : PORT	PUGUSTA.	0031
PUB 3 (SAU-1)	SML or EL	AREA	COMPANY	REFERENCE
	EL 187	Uro Bluff Block.	Australian Selection (Pty) Utcl	25%5_I
<u>PUS 4</u>	11		- A	li .
P067	10	11	н	B - 2 - 3 - 2
PUBS (SAU-2)	4	19	II .	H .
PUBIL (SAU-3)		11	н	h
PUB 16 (SAU-6)	n n	N .	t)	h e
Pub 17 (sau-7)	fi		<u>u</u>	OSSS I.TI
PUB 19 (SAU-10)	11	11	l)	2535 īi_
PUB 20 (SAU-8)	<u>u</u>	14	- 4	lı .
12013 21 (SAV-14)	<u> </u>	u	1)	2585 I, II
PVB 22 (SAU-12)		11	<u>n</u>	1
PVB 23 (SAU-13)	- 4	11	<u> </u>	ń.
Pv8 24[Pvs 45, Spi	20]_''	H.	1	2585 ]]
PUB 75 (SAU-Q)	- 41	jų :		п
208.26 (SAU-11)	i,	No. of control of control of the con	11	2585 🗓 , 🗓
PUB 27	4	Ŋ	4	2585 I
<u>PUB 78</u>			•	0
PUB 29 (SAU-17)	μ		1	2585 [] , []
1208.30	<u> </u>	<u>1</u> 1	<u> </u>	2\$85_ <u>JI</u>
PUB 31	16		1	11
.ρυ632	20	η	il	11
-P08-33 (Seu-15)	, , , k	li .	4	2585_II, III.
PUB 34 (SAU-IG)	.h		All	11 4300-11-111
PUB 86		1 <sub>1</sub>	*	2585.]]
_00B 37		ir	The second secon	
PUB 38 (SAU-IR)	ll	l <sub>l</sub>	4	2585 111
. PUB 39 (SNU-19)	tı .	li .	e describit de distribución de distribución de describución de describución de describución de describución de Il	11 11 2585 (I), (V
PUBAD (SAD-74)	វា	H	- Marie Carrier de Chinada de Arrama e ama cama de La carrier de La carr	ococ m s
PUB 41 (SAU-25)	¥	η	<u>,                                    </u>	
PUB 42/500-28)	li .	h	le .	11
PUB Q3 (SAU-22)	u .	ıı	4	11
PUB 444 (SAU-23)	п	IV.		i)
PUB 45 (SPU-20)	11	11		
سيد الواحد الماسية الم	<del></del>		<u> </u>	2282 III

ORILL HOLE DATA SOURCE : STURRT SHELF SURVEY

oon in		MAP AREA: PORT		032
DRILL HOLE	SML or EL		COMPANY	REFERENCE
PUB 46 (5AU- 21	) <u>EL 187</u>	Um Bluff Rock	Australian Selection (Pty) Utd .	2585 <u>III</u>
20847	и	ii.		2535 III, <u>V</u>
PUB 48 (SAU-27)	) li	N .		2585 V
PUB 50 (SA) - 26	) 1	D		2585 V
-				
PTE-I	EL 251	Super Loaf Hill-Trapolana	Australian Selection CP(y) Ltd.	2784
Pre-7	ti	<u> </u>	n	11
PTP-3 (SAT-1)	ч	11		1)
DTR-4 (SAI-2)	н	11	н	
PSH-1 (SPS-1)	<u>u</u>	R	и	1/
PFB-L CSAC-I)	EL 217	Cultana Area	К.	
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) OH -1	EL 802	Dinga Hill Area	Australian Selection (Pty) Ud.	2992
POIL-2	<u>. (i</u>		1	
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2011-5		11		
20 <del>11 -</del> 6		Le .	V	والمستودية

ORILL HOLE DATA SOURCE : STURRT SHELF SURVEY

MAP AREA : PORT RUGUSTA .

0033 DRILL HOLE SMI or EL AREA COMPANY REFERENCE PDH-7 (SAD-1) EL 302 Dingo Hill Area Australian Selection (Pty) Ltd. 2992 50H -8 P0H -9 **₽₽#−10** 17 POH - II nl POH-12 nl J 12 EL 332 Pacminex Pty. Ltd. <u> Pandurra Area</u> 3024 13 114 4 J\_IS\_\_\_\_ x) 16 1 20 sl 21\_ 122 4 J 23\_\_\_ 44 al -) 24 S1\_\_\_\_ EX 2 Pandurra Area. EL 186\_ Pacmner Pty. Ltd. 2564... Ex\_3\_\_\_ EX4 EXS\_\_\_\_ EX6\_\_\_ 11 EX. Ex 10 EX V h EX 12 EX 14 ir EX 15 EX 16 .

DRILL HOLE DATA SOURCE: STUART SHELF SURVEY

MAP AREA: PORT AUGUSTA.

RILL HOLE SML or EL AREA COMPANY

0034

DRILL HOLE	SML or EL	AREA PORT	COMPANY	REFERENCE
EXIT	EL186	Randuvra Avea	Pacminex By Ltd.	2564
EX 18	i ii	41	#	N
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Ex 25	ii ii	16	· ·	Ŋ
_EX 76	1 11	ti	II	M :
_ Ex 28	-	4	н	11
_EX.31	u	h .	Ng .	11
<u>Ex 32</u>	1,	4	<u>i</u>	1,
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EX34	н	ii .	11	
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Ex 37	<u>n</u>	h h	I Samuel Company of the Company of t	
_EX_38	n n	11	ч	
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_ Ex_40		<u> </u>	11	11
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Ex 43	<u> </u>	ti	<b>1</b>	4
EX 44	lg.	1)	<u> </u>	9
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EX 46	, N	l <sub>l</sub>	11	t <sub>i</sub>
_EX_48	T <sub>ξ</sub>	tı .	H	an estemperaturation per anno manim
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_EXS2		· ·	H	<u>II</u>
EX.53	i,	H	<b>h</b>	4
ENSS	h	W	<b>)</b>	
		N		

ORILL HOLE DATA SOURCE : STUART SHELF SURVEY 0035 MAP AREA: POLT AUGUSTA . SML or EL AREA COMPANY REFERENCE Pandurra Area. Pacminex Pty Ud. EUBS 2564 EK 67 Ex 63 EX 64 11 11 ſŧ .EX 66 11 EX 67 h Ex 68 fι Ą EX 72. 4 EX 73 £) -EX 74 <u>u</u> 17 1, LEX JS H \_EX 76\_ 1 . 11 -EX-77 ţı EK 78 11 1 26 EX 80 EX 81 EX 82 \_ EX 83 #1 h \_ EX 84 n. Ħ 11 \_ EX 85 It EX 86 11 li. \_ Ex\_88\_ ## 11 \_Ex 90 11  $\mathbf{R}^{'}$ EX 91 14 11 Ex 93 - EX 94 11. EX 97 \_\_Ex\_98 t/ Ĭį \_ Ex 99 11 EX IOL 4

EXIDS

EX 107

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DRILL HOLE	SML or EL	SOURCE : STUART SHELF MAP AREA : PC AREA	ORT AUGUSTA - COMPANY	0036
EX JOB	EL 186	Pandurra from	Parminex Phy. Ltd.	2564
EX 113	<u> </u>	n	11	
EX 114	<u> </u>	i li	r,	II.
EX 116	<u> </u>	<u> </u>	H	п
EX 117	<u> </u>	<u>l</u>		ı,
EX 118	it .	н		п
Ex 119	. 4	li,	h	n
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Ex 121	11	ц	- 11	11
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EX 123	tt .	Ŋ		
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EX 125	<u>u</u>	н	t(	ii .
EX126	l)	11	11	
EX 127	14		I(	Alternative description of the state of the
EX 178	<u> </u>	11	h	11
EX 129	મ	11	11	
EX 130	ie .	11	i i	
_EK_13.	<del>"</del>	le .	<u> </u>	11
EX 132	<u>u</u>	η	Ĥ	
EK 133	i <sub>l</sub>	ls.	· ·	n.
Ex 134	4	н	11	
EX 135_	H)	<u>, , , , , , , , , , , , , , , , , , , </u>	II.	
EX 137	. 11	<u> </u>	11	
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Ex 139	, H	<u> </u>	No.	
EX 140	<u> </u>	· · · · · · · · · · · · · · · · · · ·	W. E. C.	
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EX 142	11	<u>h</u>	11	
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EX 144	н	n	<b>1</b>	l
EX 145	н	<u></u>	10	<u>San</u>

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OKU		74		1 ,	71	
OK 12					85	10
OK 27	89	topographic	determination			
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OK 31	126			114 (luhy 55)	1	ng m-mala, ili maaraariganiyi oo shirayaa gara galaysaa
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OK 35	122	72		· [	<u>.</u>	
OK 36	125	50		80 (Stort).		≎ 4
OK 28	86	12		12 (Strst)		<u> </u>
OK 39	102	<u> </u>  q		19 (Sturt)		
OK 41		69		69 (Sturt)		
OIL 42	105	_57		55 (Start)		 5_
OK 43	106	61		. 1		
OK 47	112	64		64 CSturt)		8
OK 48	120	56		56 (Sturt) 5		<u>.                                    </u>
OK 20	3201 GS	<u>-7</u>		-7 (Sfurt)		
OK 52	111			73 (Why 55) 6	l '	<u>8</u>
OK 53	.11.8			93 CWhy 55).	/6	ton an and debut a man
OK 54	112		(	as (Myss) d		
_OK_56	10%			12 (Why ss) 7	1	
OK.57	125			82 (Why ss)	-	· · · · · · · · · · · · · · · · · · ·
CKC 58	124		'	15 (Why SS)		
OK 59	127		· · · · · · · · · · · · · · · · · · ·	04 Cunyss		<u> </u>
ok 60	129 .	-	, ,			
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ok 66		30 Ne logis				
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	1	3		Or Street		
OK 75	'''	77 Mr L Beds		acsturt)		4

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DRILL HOLE	RL	BASE STURTIAN	BEON VOX.	TOP PANDURA	PA BASEMEN	7 · STURILAN THICKNE
_0k_76	102	37.		37 (Sturt)	34	22
101111111	370' 93			16 Cluby ss)	] .	-
OK 117	314 96	-26		-26 (Sturt)		32
OK 118	325' 99		· · · · · · · · · · · · · · · · · · ·	31 (Why ss)	- 1	-
OK 119	330' 101	and the state of t	·	21 (Why ss)	· ·	
OK 120	3251 Ga		<u> </u>	-28 (Yud)	1	
OK 121	325' CK	_	<del></del>	4 CWhy ss)		_
DK 127	3701 98	_	· · · · · · · · · · · · · · · · · · ·	65 (why ss)		_
OK 123	330 <sup>1</sup> [O]	13	·	13 (Sturt)	8	14
OK 124	3301 101			66 CWhyss	56	-
OK 175	330' 101	_		65 (Why ss)		-
OK 126	330' 101		· .	51 CWhy ss)	1	
016.127	325' qq	-		33 (Why ss)	<b>I</b> '	**
OK 128	3101 94		·	-56 Clinyss)	1 '	
OK 129	340' 104	_13	· · · · · · · · · · · · · · · · · · ·	-13 (Sturt)		28
		<i>b</i>	: .		1	
PLb	119	The second secon	·	76 (Why ss)	J5	
PUIL	386' 116			57 (?)	50	-
PL 33	340' 104	_		-5 (Uhy 55)	<u>-7</u>	-
_ PC 35	3561 107		<u> </u>	17 (Why ss)		<b>.</b>
PU36	3101 94			~-blunyss)	-14	-
PU37	3301 101	_		9 (Hna)	-4	-
PL 38	3601 108		<del></del>	58(Whysa)	45	
PL 39	360' 108 .	<u> </u>		-34 (Ard)	-39.	<del>_</del>
	- t			Q .		
w)	110	1		· · · · · · · · · · · · · · · · · · ·		
wg	110	top ographi:	delerming	ation only		
ws.	121		<u></u>	7	:	
			· · ·	:		
LW 19	320' . 9s	graig.		(ze yku) 1=	-s	va
LW 20	3001 91	•		22 (Why ss)		
LW 22	335' 102	<u> +51.</u>		51 (Sturt)	46	4
	· · · · · · · · · · · · · · · · · · ·			<b>'</b>	70]	

	<i></i>	<u>/3</u>				0047
DRILL HOLE	RL_	BASE STURTIAN	BEDA VOV.	TOP DANNUR	PA RASEMENI	STURTION THICKNES
LW 25	2101 6xt			-26 Clinyss	£	TESTOR LINE THICKNESS
LW 27	330' 101			41 CWhy ss	ř	
LW 28	200' 6			-2 (Why ss)	1	
1 LW 29	310' 94			49 (Treg)		
LW 30	3501 107			67 CTrees)	1,1,2,	
LW_32	350' 107			68 (Why ss)	50	
LW 34	101	?33		? 33 (Sturt)		?6
LW 35	3401 104_		:	74 (Treg)	157	
LW 36	3201 98	~		83 (Why ss)	144	:
LW 37	3701 [0]	7		38 (Sturt)	1	7.0
LW 38	330 101	-7		-7 CSturt)	1	?6
LW_39	320' 48	-		89 (Whyss)		?6
LW 40	350, d8	<b>-</b>		, ,	1	
Lw 41	3001 91	4.		q (why ss)		
LW 42	2541 77	-		79 (Why ss)		
LW 43	230' 70			73 (Cain)		
LW44	220 67	-	-	61 (Cain)	16	
LW 47	200' 61			52 (Why ss)		***
Lw 48	3201 98			61 (Php)	-14	
LW SI	· 1			98 (Pbp)	16	
LW 572	320' 98 320' 98	ລາ		84 (Wyss)		
_LW 53				27 (Sturt).	20	11
LW 54			1	47 (Whyss		_
			Ī	30(W/y 55)_	20	
LIALSS	350 107.			7 (yod) .	5	
AA :- 4				• :		
MF	2001 88	4·50		50 (Sturt)	-7	72
_MF2	3051 93	22		22 (Stort)	-2	46
ME4	350' 107	18	· · ·	la (Slurt)	15	69
MF 5	3601 110	13		18 (Slurt)	14	35
ME 6	2601 79	-26		- 26 CSturt)		6
01年了	3351 102	36	<del> </del>	36 (Sturt)		9
MF 8	380' 116		1	6 (you).		

TORRENS	SHEET	4

DRILL HOLE	RL_	BASE STURTIAN BEDA	VOL. TOP PANDURRA BASER	DENT STURTION THICKNE
MF-9-	301 dl	·	1 (Ywa)	
ME JO	330 1 101		28 (Yud) -	
MF 12	350' 107	55	55(Stort) 53	37
ME 13	2801 8S	-11 .	55=501 -11 (St)	
		The control of the state of the	7 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
	104	13	13. CSfort)  1	12
_L0_2	280' 85	-q8	-98 (Sturt) -100	130
_L0_3	2401 73	-119	-119 (Stort) -170	93
LD 4	305 1 93	-43		83
LDS	3001 91	8	8 LSturt 7	22.
106	2401 73	7	7 (Sturt) 6	20
LO 7	3901 119		76 (Why 55) 44	
LD. 8	220' 67	21	21 (unnam) 17	25
LD 9	2001 61	App	34 (unnam) 28	_
_LD_IO	2401 73	62	62 (Slurt) 58	9
LO 11	200' (3)	-	44 (Treg) 37	-
LD_IZ	225! 69		57 (unnam) 48	**
LD_13	2501 76	20	20 (Sturt) 19	35
LD 14	2801 85°	25	25 (Sturt)	10
LD IS	840 73		65 CWhyss) . 61	from
LD 16	2701 32		55 (unnam) 52	_
רט ח	24n1 104		32 Cyud)	
rd 18	7301 70		50 ? 37	
	2101 64	4	4 (Sturi) -5	23
	240! 73	24	24 (Sturt) 16	
10 51	250' 76	-	61 ? 52	
LD 22	250' 76		46 7 37	<u> </u>
LO 23	5.101 85	-57	-57 (Sturt) -82	70
LD 24	3301 [0]	-87	-87 (Sturt) -97	ts 127
LD 25	3521 108	-69	-69 (Sturt) -80	<b></b>
LD 26	3251 99		94 (Cain) 87	_
0 27	3601 110		10( (Cain) . 94 .	-

TORRENS	_	SHEET	5	
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DRILL HOLE	RL		DEUN VUL	TOP PRINOUR	KA BASEMEN	T STURTION THICK WES
LD 28	3101 99	4		41 (Sturt)		<u> </u>
<u>ru 34</u>	3401 104	-		71 (yud)	: .	
			· · · · · · · · · · · · · · · · · · ·	<del> </del>		
WP 5	3501 107	83 (\$100)		83(Stort)		3
wp 6	3101 94	67	ے پینے چینی کی بہت کے خاندے ک	67 (Stuct)		_[3
<u> </u>	345' 105	82		82 (Stuct)		3
wp.s	3551 108	84		84 CSturty		14
wpq.	3451 105	۹٦.		97 (Sturt)	: :	5
m6 10	3401 104	60		60 (Stuit)	·	40
MS 11	3351 102	-73		73 (Sturt)	1 1	23
WP 13	3401 104	73		73 (Sturt)		17
WP 16	360' 110	37	:	87 CSturt .		14
wp. in	365 <sup>1</sup> 111	69		69 (Start)		18
WP 18	3761 113	-		94 cwhy ss)		
MD 19	375' 114	78	:	TE (Srut)		>5
WP 20	3541   108	68		68 CSturt)		.13
WP ZI	355 1 108	85	· · · · · · · · · · · · · · · · · · ·	85 (Sturt)		5
WP 22	3401 104	80	·	80 (Sturt)		
WP 24	330' 101	74	:	74 (Sturt)		18
WP 25	3451 105	46		46 (Sturt)		
WP 26	3401 104	48		48 (Sturt)		20
WP 31	2801 85	-21		-21 (Stort).	-29	3
WP 32	2861 85			46.(T/W/Y)_	43	5
WP 33	4001 172	39		39 (Sturt))	37	lo
WP 84	3601 110	_		77 (T/W/Y)	68.	
WP 35	325 <sup>1</sup> 99	0.	f	o Cstort)	-7	
WP 36	4101 125	-67	. 1	67 (Slut)		24
WP 37	3801 116	_	i	28 (T(W/Y)	66	10
	4051 123				q2	
	3701 113	57			74	
1	375' 113			57 CStart)		<del>3</del> 9
•		57 ·		101 (Cain)	95	

TORRENS	SHEET	6	

WP42 -	330, 101	59	54.63	59 (Sturt) ·	56	_a
WP 43	3361 101	<u> </u>		81 (Caiñ)	75	
WP 44	3251 99	-		93 (Cain)	ह्रव	
WP 45	3361 101	<u> </u>		71 (T/W/Y)	65	
WP 47	3251 99				63	
WP 48	350, 107	74		74 (Sturt)	11	ລ3
WP 49	340' 104	74		74 (Shurt) .	92	_
Mb 20	4501 137			89 (T/W/Y)	88	
WP SI	2601 79	33		33 (Sturt)	24	8
W625	250' 76	-63	·	-63 (Sturt)		48
Messon	10561-85L	<u></u>				
WP 54	2501 76	~40		-40 (Sturt)	<b>-53</b>	48
WPSS	250! 76	-17	:	-17 (Sturt)		7
WP 56	3701 08	48	:	48 CSturt)		3
WP57	3201 gg	2g	_	29 CSiurt)	23	21
WP 58	375 114	<u> </u>		<b>"</b> .	90	
WP 59	3901 119	70		70 (Sturt)	67	16
WP 60	4251 130	(o.sm only)			76	-5m
WP 61.	3701 113	17		17 (Sturt) ·	11	ସ୍ଥର୍ଗ
WP 63	345' 104	- 24		-24 (StacCain)		
WP 64	350 1 167	93		93 (Sturt)	<del>- 94</del> 81	1123
W065	3951 120	72			<u>ැ</u> ණ	<u> </u>
WP 66	370 113	37	· · · · · · · · · · · · · · · · · · ·	37 (Sturt)	2 <u>9</u>	7
WP 67	355 1 108	IGNEOUS T	YICE from	73 Cyw). +SZ →+46,	44 ———————————————————————————————————	16
WP 69	3451 105	87	The MAIN	87 (Sturt)	•	5_
טף קט	21001 177.	44-	<del> </del>	1	<u> </u>	
wp 71	3551 117		<u>· · · · · · · · · · · · · · · · · · · </u>		86	
WP 72	380! 116	30	<u> </u>	• '0	79	
WP 73	380 116			30 (Stud)	70	16
WP 74 .		16	<u> </u>	106 (Whyss)		
<u> </u>	375 1 114	10 .	<u> </u>	16 (Sturt)	<u>q</u>	6

TORRENS	SHEET	7

IOKKEIUS	SHEET	<u> </u>	<u> </u>	<u> </u>	_		7040
DRILL HOLE	RL	BASE STURTIAN	V BEDA VOV.	TOP PANOUR	RA BASEMEN	T STURT	LODE THER
BK 2	130 40	- IS)	-162	- 162		66	Estina
BK 3	3801 116	-39	-50	-50	:	55	11
BK 4	2251 69		-17.2	-122		108	
BK S	<u> </u>	-55		-SS (Slurt)		60	
GK 6	380' 116	32	-	32.(Stort)	+26	15	
BK_7	332, 101		-53	-53		SI	14
.bk.8	420! 178	48		ne celoui	98	29	
Bicq	3151 96	-19	−28	- 28		56	10
BK 10	3501 107	15		-II	-27	34	26
BK II	व्यद्ग १०	-27	-53	<u>-57€</u> -53	-70	54	31
BK 12	370' 113 .	40		40 (Sturt) .		5_	
tion was a self-per graph <del>and the control</del>			_				1
LY-Z	3801 116			87(Why ss)	-551		
LY3	3301 (0)	71		71 (Sturt)	66 dyke at	(al.) 5	
					MO C MISTE		
Per 21	J35			25 (Treg.)	1	<del>-</del>	a rangestado, signio personal i recento e a
PEB 27	136	•		102 (Treg)	96		<del> </del>
PEB 23	350' 107	•	<del></del>	-IL (Treg)	-17		المرابع فيستوسد معاصف
PEB 24	4201  28		1 1	+54 (Treg)	48		
2EB 25	400 1 122	-		72 (Treg)	68		<del></del>
PEB 26	72	_	:	46 CIreg)	<u> </u>		44 44
æ8 27	74.	_					
?EB ?8	350 107	-	<u> </u>	-4_(Ireg) -43(Ireg)	~53	<u> </u>	<del></del>
768.79	290! 88	-		•		<u></u>	<u>_</u> ·
PEB 30	4101 125	-		50 (Treg)	48		<del></del>
E6 31	3301 101	_		7 (Jreg)			
P6B 35	3501 107			s (Teg)	<i>-3</i>	<u> </u>	
Der 36	72			-qi (Treg)			
2EB 37	4501 137	_	<del> </del>	10 (Treg)	2	<u> </u>	
DEB 38	3001, 91.		<u> </u>	7 (Treg)	-5		<del>dii (s. sainin appara 1</del> 111-1111).
	1,244			-3CTreg) . -16 (Treg) .	-IS .	<del></del>	<u> </u>
PEB 39 .	400 122			11 1 m	=101		

_DRILL HOLE	RL	BASE STURT	TIAN BEDA V	OC. TOP PANOURR	A BASEM	ENT PA	Thickness Baby pag
PRLI (SOR-I)	58	-94	-110		<u> </u>		_≥.i8_
DEL 2		<u> </u>		-61 (Treg.)	ļ		
PPL3 (SAR-Z)	79	-326		-376(Sturt)	-336	୍ର ଅଞ	· · · · · · · · · · · · · · · · · · ·
and the second s	<del>296 90.</del>	-133		-133 (Sibrt)	1 1-197	31	and the second s
PRLS (SAR4)	100	-195		=195_(Sturt)_	-234		·
Pel 6	93	-49	=67	- 67		60	
PRL7_(SAR-S)	180' 55	-151		-151 (Sturt)	_16L	90	
PRLB	335, 105	-8	_	-8 (Sturt)	-16	49	
<del>proto</del>	4550-550	-H	<u> </u>	~ +17-ESTONED			
PRL 11 (SAR-6)	1901 58	-158		-158 (Sturt)	-188	in	
PRL 12A	300' 61		- 144			94	> 10
PRL 13A	2051 67	-138			-144	Gß	
per 14	1801 55	-131		-131 (Sturt)		91	7532
pel is .	180' 55	-122			-142 .	88	
							<del>-</del>
EX 146	130	94		84 (Ywa)			<del></del>
EX 147	121	48		1. 5	48		et emerciation to emerciate the second and depresent the second and the second an
EX 148	148	-		137 (Cain)		<u> </u>	<del>Vicintalitătă în de</del> n escruișe și
EX 149	149	41.			41.	ູຊ	:
Branch de Later Lander and Antonio Marie Company (1994)					<del></del>		· · · · · · · · · · · · · · · · · · ·
PSC - J CSASC-U	2551 78			-240 (Whyss)	_ 202		<del>-</del>
)SC - Z	3621 B)			-134 (Trecy)	- 300		<del></del>
25C-3	2201 67			13 (Cor)			<del></del>
2SC-4.(SASC-2)	4301 131	_			- 38b		·
· I	হা <mark>হ। হ।</mark>			-III (Treg)			· · · · · · · · · · · · · · · · · · ·
	<u> </u>	-147					<u> </u>
	1401 43				-150		
	2101 64		<del> </del>	1 9 1	·642 · _		
4	2001 61			-145 (Treg)			<u> </u>
		. :					
	470! 143 .				·		
		<u> </u>	<del></del>	-   -   -   -	-,		· · · · · · · · · · · · · · · · · · ·

TORRENS SHEET 9

DRILL HOLE	RL_	BASE STURT	IAN BEDA VI	V. TOP PANDURR	9 BASEM	ENT . P.P.L	Turdeness <del>181</del>
BEDA BORE	330 101	-39_				48	Beda 195
WOOMERA ROPE	<u>460 ! 140</u>	-332		-832 (Stort)	-471	127 .	
			:				: :
PIL'3 (SA1-1)	350' 107	-7		-7 CS(U(t))	-213	46	
PILA	350! 107.	1.45		5_(Shurt)	}	72	<del> </del>
PILS	335' 102	78/-78	Basic in	itusiveal this	level.	160	
PIL 6	3201 96			j .	<u>-197</u>	60	teritoria en esta esta esta esta esta esta esta esta
PIL7	3151 96	i		-71 CSIUM)	-227	67	<del>deren</del> was a <sub>nd</sub> a de <u>ren</u> sa
PIL 8	340 104	-54		-54 (Shut)	-20)	60	4 4 4
PIL 9	3051 93	-53			<u>-110</u>	96	
PILIO	345 1 105	1+9			-145	>38	
PIL II ·	3601 110.	-76		-76 (Siurt)	-196	136	
				:	<del></del>		<del></del>
AD-Z	450 137	<u>-</u>		-302	-675 - <del>1</del> 231		1
AIH D-1	430 131	-302 -335	-385 -386	-	- 501 . - 504	154	
				: :			<b>63</b> ∖.
BDH I	76				<del></del>	M-16 W 10 104 MO 19 19 19 19 19 19 19 19 19 19 19 19 19	mining magazing and and and
BDH.2	41	-307	-512	-512	· · · · · · · · · · · · · · · · · · ·	151	206
B0H_3	75	-445	:	-445 (Sturt)		196	
BOH 4 SIT 101	44	-556		-55b (Sturt)		15	
SUT_IOZ	31	-587	<u>- 613</u>	-613	· · · · · · · · · · · · · · · · · · ·	270	~~~
SLT_103	<i>3</i> 6	-263	~578.	· 1	578	· 1	<u> 26</u>
SLT_104	44				2910	159	306_
					:		<u> </u>
NO 15	346! 104	-		82 (1114) -51	C) 1		
WP 19.	305 <sup>1</sup> q3	66		82 (Ulhy 55)	<b>D1</b>		** - <del>***</del> - **** **********************
WP 27	360 <sup>1</sup> 110	98	:	6b CStuct)		>9	<del></del>
	3901 119			98 (Sturt)		> 18	
ND 29	4001 122	<u>.</u>		104 (Wy 55) 15	D3		
1	3001 91	52		87 (Why 35)	· · · · · · · · · · · · · · · · · · ·	-	- <del></del>
				52 (Stort).	<del></del>	20	
Pacminex.	5501 168	-C25	<u> </u>				<del>-</del>
<u> </u>	5501 168	-S30 ·	<u> </u>	1-230 (2404t)   -	<u>-670</u>	174	* .

r				:			
PORT AUG	USTA .	SHEET 1 .				00	<b>4</b> 9
DRILL HOLE	RL		N BEDA VOX.	TOP DAMOURE	A RASEMEN	<del></del>	D-01-11
PUB 3(SAU-1).	_43	-218	- 232.	TOP PANOURK	- Sinsinger		15 +
PUB 4	47	-109	:			24+	19."(
POSS FRUBER SALVE	2500	33	h	37~~	170		THE RESERVE OF THE PARTY OF THE
PUB.7	~45	61		-61	- 79	94	
PUB & (SAU-2)	33	-166	- 187	-182		117	16+
PUB 11_(SAU-3).	36	-377	-458	-458		208	8i+
.PUB.16 (SAU-6)	69	-205	-214	-214	***************************************	1170	
PUB 17 (SAU-7).	43	-69	_	-69	-100	108	9.+
PUB 19 (SAU-10)	62	-10	-109	-109		103	8+
PUB 20 (SAU-8)	48	-15		-15	-19	43	8
PUB 21 (SAU-14)	46	-44	-61	-61		84	17+
PUB 22 (SAU-12).	53	-78		-78	-90	117	
PUB 23 (SAU-13)	55	100	-121	-121		137	
PV629(PVD45 SAV20]	57_	-91-		~~		1144	_ 31+_
PUB 25 (SAU-9)	56	_134		-134	-I43 ·	126	_
PUB 26 (SAU-II)	53	-93	~111	-111		118	J8+.
.00B 27	45	-85		-85	-86	124	- JOT - 3
PUS 28	∿50			0	- 2		
PUB 29 (SAU-17)	42	-124	-132_	-132	-137	120	
PUB 30	52	-72		-72	-84	12	_8
eub 31	58	-12	-	-12	<u>-18</u> .	68	
<u> </u>	51	11 .		11	<u></u> ∽§:	<i>28</i>	
PUB 33 (SAU-IS)	57	-40		-40		92	
PUB 34 (SAU-16)	52	-96		-96	-109	144	
PUB 36	56	-48		-80			20
PUB 37	59	-8		-89	N 1		32.7
PUB 38 (SAU-18)	44	-4	-47	=47	ļ		8±±
1	52		-79	-79	4		6+
	58		~103	-103			7+
120841 (SAU-25) 5		'	-91	-91			13+:
\$	2	1		- 132_			25.+
<b>3</b>	q.			-q6	·		37+.
		:	<u> </u>	<del>                                      </del>	<u>#</u>	<u> </u>	5+

PORT AUGUSTA SHEET 3

DRILL HOLE	RL	DAX SIVKTIAI	y other vox.	TOP PANDURR	A BASEMENI	THICKINES T. 19. P
DOH 2	Seo' 177	480	<del> </del>	155 outcrop	<u> </u>	<i>Cu</i>
DOH 6	147.	<u> </u>		LLE outcrop	118 . -54 GRV	
POH 7 (SAD-I)	375' 114	-123	<u> </u>	<u> </u>	-123 GRV	qs
POH 8	3401 119	67	-	67		44
PO H 9	3 <u>45 105</u>					
POH 10	3701 113 .	:				
POH II ni						
POH 12 Ini	<u> </u>					
		;				
J_12	56_	-67	-219	-219 (vol)	-230	120 157
<u>. 13</u>	66	48	ि q	9	230	
114-	59	8	Rob + Berla v. -19	<u>- 19</u>	1 1 1	
115	~58.			<b>'</b>		<u> 30</u>
1 16	203 67	<u>- 98</u>	Pc6 + Boda V - 110	57 outcrop	<u>~h7.</u>	<del>                                      </del>
20	76	<u>40</u>		-110		159 11
<u> </u>			<u> </u>		IO .	70 3
1 22	59	24	-33	-33	<del>-48</del>	32 S
	25 66	48				12+
23	e13 65	47 .	Polo+ Geda V .			15+
74	<u>185 ' 56 </u>	-4	<u>-87 ·                                    </u>	-37	<u> </u>	<u>55 き</u>
د السويونيو فريسي الميساني الرابطي الاستعادات المستعادات المستعاد	<del></del>	· · · · · · · · · · · · · · · · · · ·				
SI(450)	18m	<u>.                                    </u>		-31 (10)	<del></del>	
57. <u>(45°)</u>	40 n	<u> </u>	·	-81 (121)	<u> </u>	
	<u> //</u>	<u> </u>				
		<u> </u>			<u></u>	
		<u> </u>		·	· · · · · · · · · · · · · · · · · · ·	ريندن پر رويون جو رويوند سندستندنده
			<u>.</u>	:		
2	•					
		•				
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						· · · · · · · · · · · · · · · · · · ·
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POOT	BUGUSTA	SHEET	1
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EX 2	108	44	N BEDA VOX	AA (Chin		-14
EX 3	87_			44 CSturr		44
EXA	104	_		45 (Tert)		
EX.5	125	-		92 (Tert) 95 (Tert)		•••
EX6	102			MS CIEPT	:	
EX.7	112				<u> </u>	
EX 10	96	37		37 (Stort)		
_6X II	107			40 (Yu)	- Indiana kan dan ing mengangan sa	14
EX 12	114		1	- 40 yur		
EX 14	120			_		
Ex is	_113	-		BO (Muci)		
EX 16	98	***		34 (yuzi) ·		
.ex 17	111	35		35 (Sturt)		12
EX 18	78	6		6 (sturt)		46
EX 19	76	-22				68+
EX 20	68	-28				324.
EX 22	98					
EX 23	99		,	:		:
EX 25	91	3		3(Sturt)		45
EX 26	109	_		97 (Yun)		• <del></del>
EX 28	94	_		74 (Ym)		
EX 31	12.7			124 (outcrop)	73	*
EX 82	127	-			104 CAM)	
EX 33	121	91		al (Sturt)	4+3	27
EX 34	106	85		-		18
Ex 75	118					A September 1995 per 1995 . A 1995
EX 36	105	_		_	68 (Yud) .	
EX 37	[]]	•				
EX 38	11.9	<b></b>		L	116 (outcrop)	
_Ex.39	129	80		80 (Sturt).		40
Ex 40	95			iga.	87 (outcrop)	
EX 41	83	49 .	42	42 (Pcb).		22

PORT	AUGUSTA	SHEET	6

DRILL HOLE	84			.65 Cstuct)		1.7
EX 66	_69			4 <u> </u>		
EX 88	79	67		16		
ex qo	88	68		10	60(Stuct)	18
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Eq. 94	114					<b>-</b>
Ex 95	106	73		7,	-	23
εκ αγ	qq	~~			96'outcrop	
EX 98	130_	77		77 (Sturt)		52
EX 99	140	82		82 (Sturt)		55
EX-101-	130	-		127 (outcrop)	:	
EK 105	139	-		_	134 outcrop	
EX 107	128			-	116	4.
FX 108	114			-	106_ "	
EX 113	119	103		_	103 (Sturt)	<b>1</b>
EX 114	104	90		-	90 (Sturt).	\ \ \
<u>ex 116</u>	108		•	10% (outcrop)		
EX 117	97		হুৱ	53 (Pcb).		
EX 118	96	64		64 (Sturt).	<u></u>	
EX 119				96 cyral.		
EX 150	106			7		
EX 121	112					
15x 122	113		1	86 (Yud).		
EX. 123	115	<u> </u>				
EX 124	142					
EX 125	141	-		138 (outcrop)		
EX 126	139	-	•	14 (Tert)		
EX 127	128	-		65 (Tert)		
EX 128	122			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	
EX 129	132					
EX 130 ·	110	-		56 (Tert).	1	:

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e e marin den den deligendenfisikryt wie de gener e	. २ व स्थापिताले प्राप्तीः स्थानः श्री २० न्यांके १८२८ - १९४४० - १८४६ स्थापानः स	A00AN	ioik III		An THE LATE WE would be added the second control of the second con	. <del>To shak</del> aran kilo amata Agadangana na mpangana na L	
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E 	105				-107	
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211	10.7	•			28	
212	10.7				-22	
			1			
300H 14	138	- 220	~		-219 (Sturt)	190
BDDH 15	162	- ଅଟନ୍			- 289 (Stud	1 '

i ŝ	128	- 159	BEDA VOX.	TOP DANDURR	G BASEMENT	· STURT I PAY THICKORS
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17			<u> </u>			50 t
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	100	-54			-54 (Sturt)	44
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YORKE PENINSULA SHEET NO. 3

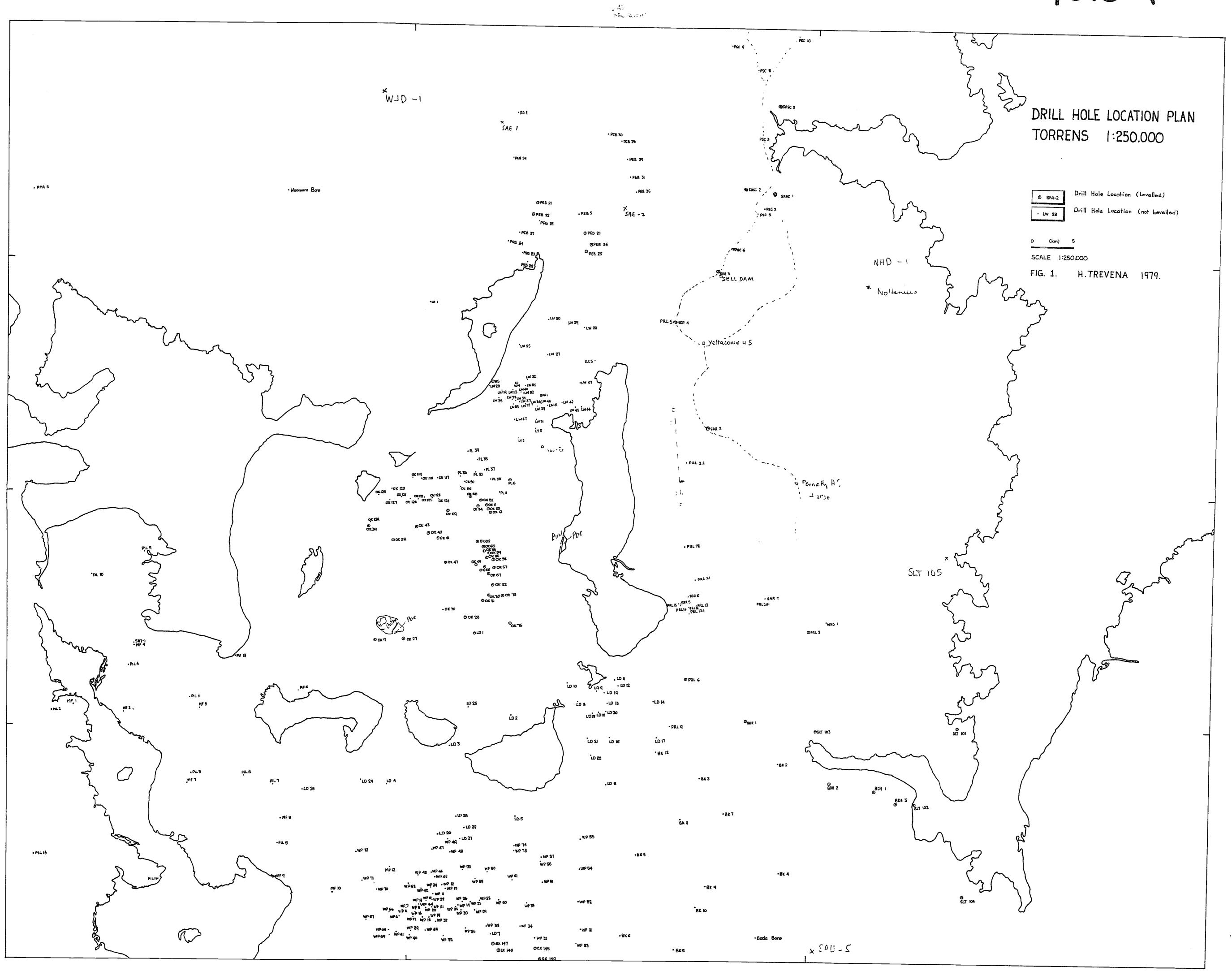
DRILL HOLE	RL_	BASE STURTIA	N BEDA VOX.	TOP PANDUK	RA BASEMEN	T . STURTIAN THICK
Bule No 13	67				57 (Cain)	
<del></del>						
WR -1	19.3	<u> </u>			44 (Cain)	
WR-2	82	37			37 (Sturt)	15.+
WR-3	83.5	වර්	nging and an analysis and a second a second and a second		26 (Stuct)	6.4
WR-4	105				26 (Br. 15)	
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we -7	64				7 (Coin)	
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_WR-18	178					
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Tickera No z	46				-73 -(7.Tert	
Wok-1	91			•	66 (Cain)	
Wok-2	84	-135 - 135				.173 ±\)
Ubic-3	153				-153 (Ang.f)	
WCK-4	88.2	-67			-241 (P.b).	
<u> 100k-s</u>	112.8	-182			-182	120-t
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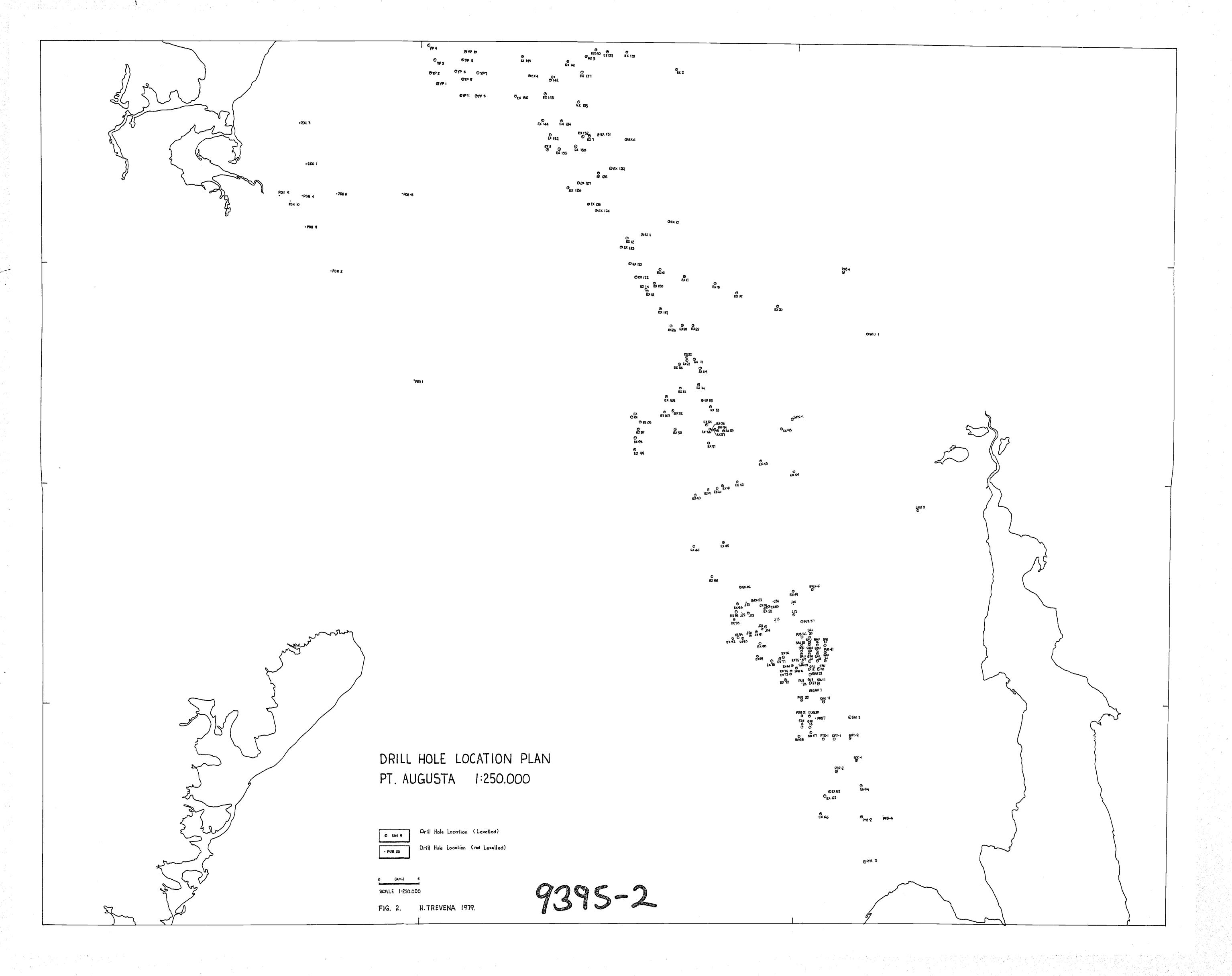
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DRILL HOLE	<u>RL</u>	BASE STURTIAL	V BEDA VOK.	TOP PANOURR	A RASEMEN	7
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R0-4				ſ	o Mare a	
R0-S ₹				mutner thu	<b>I</b>	
RO-6						
RD-7						
R0-8						***************************************
RD-9 d						
R0-10						
20-7	310' 94	_	_	-346	- 410	
	- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17			<del>07</del> 15	<u>- 419</u>	
BD-	3701 113				-405	
TOD=1	3051 93	***		-	-495.	
PDI-A	350' 107	_			<u>-435 · </u>	
A0-1	470' 143			-8	-229	
00=1	96' 29				-342 .	
1-9ww	1				-384	
10-3	101 34				-728	- Land Street St
Filo-i	900' 61	?-683				
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Ananten		BASE STURTIAN			
GAILONER.	. <u></u>				
LH_ OOH!	~110		<u></u>	1	-333(Php) ·
LIF DOH 2.	ar125			87 (Cours. 55).	-382(lhp)
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KINGOONYA.	பத் <b>கை</b> டிர்க் ச				
SR.7	~170	:	····		相 +135 (Perm)
sr9	~1.73			*** **** ****	tios CPerms .
SP.15	~176				+72 (Perm).
LY DOH 1	~/35		· · · · · · · · · · · · · · · · · · ·	135	-540
PEEINBENA NO.	ar 115	8bp 324.6→ 527.6×	· · ·	-939 -209	<b>3</b>
PRICES NO.1.	~//0	363 → 409.5 *	<u> </u>	<u>-42 - 253</u>	
PLAY FORD .CO. 1.	~108	θιρ 4383 → 566 *		330	
			·		
BILLAKALINA .			: · · · · · · · · · · · · · · · · · · ·		
SiR/I	~165				+7 (Parin)
SR 5	~167.				-34 (Perm).
SR.16	~160				-67 (?)
SR 6	~104·	- 446		2-446 (Shrt)	
SR 8	w 76	772	-		-24 (:)
April 1980	~107				+10 (?)
SR 2	~/30				+10_(2)
SR 3	~/30		<del>*************************************</del>		-250 (Cref)
	~182	<u> </u>	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		+99 (?)
SR 13	~90				+42_(?)
	, '				-258 (Perm)
WARRINGER CK. NO. L			······································		
SR.10.	<i>~ 185</i>		<u>- =</u>		+130 ·C?)
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