AGSO

AUSTRALIAN GEOLOGICAL
SURVEY ORGANISATION

AUSTRALIAN PETROLEUM SYSTEMS

PAPUAN BASIN MODULE

VOLUME 2

BY

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APPENDIX 1 : WELL SUMMARY SHEETS

WELLNAMES	LATITUDE LONGITUDE	ELEVATION KB (m)amsl WD (m)bmsl	COMPANY SPUD DATE COMP. DATE	WELL STATUS	TD (m) KB AGE AT TD	HYDROCARBON OCCURRENCES	STRUCTURAL TYPE
Anchor Cay 1	9/26/29 144/3/30	10.36 WD 62.78	Tenneco-Signal 26/02/69 - 6/05/69	P & A	3623.46 Jurassic	No shows	Four way dip closure
Angore 1	5/58/31.61 142/53/3.7	1609.5 WD -	BP 12/10/89 - 10/04/90	Suspended Gas/Cond Disc.	4239 Jurassic (Tithonian)	Gas-condensate recovery - DSTs	Thrust fault anticline
Aramia 1	7/49/45.47 142/18/0	23.77 WD -	Island Exploration 12/04/55 - 4/12/55	P & A	2020 Pre-Jurassic (granite)	Minor gas shows	Four way dip closure
Barikewa 1	7/6/51.99 143/55/21	135.32 WD -	Island Exploration 11/08/56 - 4/09/58	P & A	4234 Pre-Jurassic (clastics)	Minor gas shows	Fault anticline
Darai 1	7/0/53.2 143/28/34.1	768.68 WD -	PNG Petroleum 6/12/75 - 24/01/76	P & A	2068 Jurassic	No shows	Fault anticline
Dibiri 1A	8/16/57.08 144/40/16.59	13.11 WD 76.5	Phillips Australian 4/01/75 - 29/04/75	P & A	4895 Jurassic (Oxfordian-Bathonian)	No shows	Four way dip closure
Elevala 1	6/9/4.92 141/45/57.42	64.80 WD -	BP 11/12/89 - 14/02/90	Suspended Gas/Cond Disc.	3216 Pre-Jurassic (Granite)	Gas-condensate recovery - DSTs	Four way dip closure
Goari 1	7/38/8.29 143/51/44.08	8.40 WD -	Esso PNG 28/08/78 - 10/11/78	P & A	3138 Jurassic (Oxfordian)	Minor fluorescence / v. minor gas shows	Fault dependent closure
Goaribari 1	8/38/9.13 144/23/36.7	14.00 WD 69	Premier Niugini 29/12/89 - 28/02/90	P & A	3838 Mid-Jurassic	Fluorescence/minor gas shows	Fault dependent closure
Gobe 1	6/44/38.3 143/41/18.1	569.4 WD -	Chevron Niugini 6/7/88 - 23/9/88	P & A	2411 Jurassic (Oxfordian)	No shows	Thrust fault anticline
Hedinia 1X	6/27/42.7 143/12/16.3	1275.2 WD -	Chevron Niugini 21/1/88 - 31/3/88	Suspended oil/gas disc.	2591 Jurassic (Kimmeridgian)	Oil/gas recovery Production tests	Thrust fault anticline
Hedinia 1X ST	6/27/42.7 143/12/16.3	1275.2 WD -	Chevron Niugini 1/4/88 - 16/6/88	Suspended oil/gas disc.	2871 (deviated)	Oil/gas recovery Production tests	Thrust fault anticline
Iagifu 2	6/26/4.91 143/12/41.78	1326.8 WD -	Chevron Overseas 8/12/85 - 28/4/86	Suspended oil/gas disc.	2682 Late Jurassic	Oil/gas recovery DSTs	Thrust fault anticline
Iamara 1	8/24/4 142/56/19	10.97 WD -	Australasian Petroleum 29/10/62 - 27/12/62	P & A	1814 Pre-Jurassic (Tuffs)	Minor fluorescence	Stratigraphic well

WELLNAMES	LATITUDE LONGITUDE	ELEVATION KB (m)amsl WD (m)bmsl	COMPANY SPUD DATE COMP. DATE	WELL STATUS	TD (m) KB AGE AT TD	HYDROCARBON OCCURRENCES	STRUCTURAL TYPE
Iehi 1	6/57/6.2 143/52/6.8	188.06 WD -	Australasian Petroleum 22/6/60 - 28/12/60	P & A	3061 Jurassic	Fluorescence/minor gas recovery	Fault anticline
Iorogobaiu 1	6/32/44.19 143/11/26.63	632.1 WD -	Chevron Niugini 4/6/89 - 12/7/89	P & A	3354 Jurassic (Oxfordian)	Minor gas recovery (unproductive gas?)	Thrust fault anticline
Juha 1	5/54/12 142/26/9	945.1 WD -	Niugini Gulf 23/10/82 - 11/5/83	Suspended Gas/cond disc	3742 Jurassic	Gas/condensate discovery - DSTs	Thrust fault anticline
Kanau 1	6/54/45.41 143/11/25.95	966.9 WD -	PNG Petroleum 21/5/75 - 15/11/75	P & A	3519 L.Triassic (clastics & volcaniclastics)	Minor fluorescence / v. minor gas shows	Fault anticline
Kiunga 1	6/0/56.1 141/18/35.48	73.5 WD -	Niugini Gulf 10/3/80 - 23/5/80	P & A	3026 Pre-Jurassic (quartzite-rhyolite)	Good gas shows and fluorescence	Fault anticline
Komewu 1	7/18/5 143/2/42	27.43 WD -	Island Exploration 10/4/57 - 16/10/57	P & A	1949 Pre-Jurassic (dacite-extrusives?)	Minor fluorescence / v. minor gas shows	Fault dependent closure
Komewu 2	7/17/9 143/4/11	38.1 WD -	Island Exploration 30/11/57 - 27/4/58	P & A	3041 Pre-Jurassic (granite)	Minor fluorescence / v. minor gas shows	Fault dependent closure
Kusa 1	8/42/28.5 144/3/2.9	14.33 WD 27.74	Esso PNG 9/2/77 - 14/4/77	P & A	3434 Jurassic (Oxfordian)	Fluorescence/minor gas shows	Four way dip closure
Lake Murray 2	7/9/18.5 141/20/18.4	37.49 WD -	Continental Australia 12/10/73 - 27/10/73	P & A	1934 Pre-Cretaceous (quartz diorite)	No shows	Four way dip closure
Lavani 1	5/46/17.4 142/33/39.5	2673.25 WD -	Amoco PNG 21/5/82 - 15/9/82	P & A	2986 Triassic (clastics)	Minor gas shows	Thrust fault anticline
Magobu Island 1	8/31/47.4 143/16/31.2	8.84 WD -	Endeavor 4/11/70 - 16/12/70	P & A	2635 Carboniferous (volcaniclastics?)	No shows	Four way dip closure
Mananda 3X	6/11/29.85 142/52/45.74	1997 WD -	Niugini Gulf 30/4/85 - 16/11/85	P & A	2621 Jurassic (Tithonian)	Good gas and oil shows	Thrust fault anticline
Morehead 1	8/44/46.33 141/31/34.57	19.81 WD -	Australasian Petroleum 5/10/56 - 5/2/57	P & A	2465 Jurassic	Minor gas shows	Four way dip closure
Morigio 1	7/58/33.85 144/7/59.3	24.3 WD 7	Overseas Pet. Inv. 11/05/89 - 27/08/89	P & A	3990 Mid-Upp Jurassic	Fluorescence/minor gas shows	Wrench fault anticline?

WELLNAMES	LATITUDE LONGITUDE	ELEVATION KB (m)amsl WD (m)bmsl	COMPANY SPUD DATE COMP. DATE	WELL STATUS	TD (m) KB AGE AT TD	HYDROCARBON OCCURRENCES	STRUCTURAL TYPE
Omati 1	7/26/0.59 143/57/30	54.56 WD -	Australasian Pet. 22/11/50 - 10/05/55	P & A	4374.49 Jurassic	Minor gas recovery and oil shows	Fault anticline?
Orie 1	6/59/20.2 144/11/47.69	395.9 WD -	PNG Petroleum 1/03/76 - 2/05/76	P & A	2849.7 Jurassic (Kimmeridgian-Oxfordian)	Fluorescence/minor gas shows	Thrust fault anticline
Pandora 1X	9/12/10.5 144/59/9.84	15.54 WD 123.44	Int'l Petroleum 7/06/88 - 23/08/88	Suspended Gas Disc.	2066.44 Tertiary (Miocene)	Gas recoveries - DSTs	Miocene reef play
SE Hedinia 1X	6/35/5.81 143/23/14.04	1106.3 WD -	Niugini Gulf 20/04/87 - 24/07/87	Suspended Oil/Gas Disc.	3093.6 Jurassic (Oxfordian)	Oil/gas recovery-Production tests	Thrust fault anticline
Wabuda 1	8/16/17.3 143/40/15.57	25.00 WD 5.7	Canadian Oxy 15/10/90 - 23/11/90	P & A	3048 Jurassic (Oxfordian)	No Shows (Bitumen extracts only)	Fault dependent closure

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APPENDIX 2 : STRATDAT DATA

STRATDAT DATABASE - DATA SHEETS

The following Stratdat data has been retrieved from the database and is presented here in hard copy. A digital copy of this data also exists, either in Ascii or Oracle format. Many of the fields in the database are coded to ensure ease of data entry, data consistency, and minimal disk space usage. The coded fields are expanded during reporting by reference to the lookup tables. The fields which are on the printout are described below. For further explanation consult the Stratdat User's Guide (version 1.02).
NOTE : The following printouts are expressed in terms of Harland timescale. If required these can quickly be printed in other timescale formats

UNO char(8) not null (PEDIN) **Unique number for well** in format Wsyynnnn, where W indicates 'well'; s is the number of the State (2=NSW, 3=Vic, 4=Qld, 5=SA, 6=WA, 7=Tas, 8=NT, 9=PNG); yy is the year the well was drilled; and nnnn are digits to make the number unique.

Depth number not null **Depth of datum** in metres. All data in STRATDAT is in measured depth.

Datum char(5) **Datum code.** This is a five-character alpha-numeric code that, together with the Hi_lo field, is used to define a unique age and zone or formation name from the datum dictionary.
The first two characters indicate the type and sub-type of the datum as follows:
Palaeontological codes. The first character refers to the fossil group (P=planktonic foraminifera, B=benthic foraminifera, S=spore pollen, M=microplankton, A=fauna, T=trilobite, O=ostracod, V=flora, C=conodont, R=radiometric age) and the second character refers to the broad time interval for the zones (1=Neogene, 2=Paleogene, 3=Cretaceous, 4=Jurassic, 5=Triassic, 6=Permian, 7=Carboniferous, 8=Devonian, 9=Silurian, X=Ordovician, Y=Cambrian, Z=PreCambrian).
Well data codes. The first character is W and the second character is not used. Closely related datums should, however, be given similar codes.
Lithological codes. Non-palaeo log datums start with the character L and the second character is not used. Closely related datums should, however, be given similar codes. For example, all codes related to volcanics are listed in the L2000's and coals in the L3000's.
Sequence codes. The first character is Q and the second character is C (condensed section), R (radiometric age), or S (sequence boundary). The remaining three digits are related to the age of the datum on the Exxon time scale. The age is rounded down and then used to complete the code. If the rounding process produces two identical ages then an alpha character is placed at the end of the code or a slightly different age is used to separate the two.
Formation codes. The first character is F and the next character refers to the broad geographic location of the formation (N=northern, S=southern, E=eastern, W=western basins).

Hi_lo	char(1)	This field is used to indicate if the datum represents the **top or base** of a formation, zone, etc. The values 'H' and 'L' refer to the top and bottom respectively. Any MA value associated with either the top or base of the formation, zone, etc. will be provided. This field is only used for pick types F, P, Z, L, and W.
Age_exx	number	**Age (EXXON time scale)** in MA.
Age_bmr	number	**Age (Local(BMR) time scale)** in MA.
Age_els	number	**Age (ELSEVIER time scale)** in MA.
Age_har	number	**Age (HARLAND time scale)** in MA.
Age_tem	number	**Age (Radiometric time scale)** in MA.
Pick	char(1)not null	**Pick type code.** The valid codes are stored in the STD_TYPE table and can be viewed during data entry. The valid codes can be viewed during data entry and are shown in Figure 5. Allocation of data to a pick type enables the type of data being used to be selected and shown on reports. **D-Single depth for a paleo zone**: Sometimes, only a single sample can be assigned to a palaeontological zone. If the palaeontologist cannot guess whether or not it represents the top or bottom of a zone, then it can be entered as a single depth. Because there is no certainty as to where in the zone the sample comes from, no MA age can be assigned. **F-Formation:** Formation data should, where possible, be entered as tops only. **K-Key Horizon:** A Key horizon is considered to be any time line of regional significance. It is generally based on a combination of lithology and the best available palaeontology. A key horizon may have an MA age associated with it. **L-Log pick** (for non-palaeo log pick): Any log break, other then those which estimate the position of a palaeo horizon, can be entered here. This form of log pick never has an MA age associated with it. **P-Palaeo zone boundary** (determined from logs): This pick type is used for estimates of palaeo zone boundaries based on log determinations. If the data to be entered is given in the form of a boundary between two zones then the datum should be entered as if it were the top of the underlying zone. STRATDAT treats these in exactly the same way as normal palaeo boundaries. **W-Well data:** Most well data (eg TD, KB, GL and water depth) is stored in the PEDIN system automatically and should not be duplicated here. The Well data pick type is used for the top or bottom of cores, casing points etcetera. **Z-Zone boundaries determined from palaeo:** As well as zone boundaries, this pick type should be used for first appearance datums (FAD's) or last appearance datums (LAD's). If this pick type is used, then the top or base of the zone or formation should also be filled in. FAD's should be entered as if they are the base of a zone, LAD's as if they are the top. If available, an MA age will be displayed.

Pref_alt	char(1)	**Preferred or Alternate depth:** The codes 'P' and 'A' refer to the preferred and alternate depth for a datum respectively. This field is closely linked to the confidence rating and applies only to pick type Z. Often two depths are given for one of these datums. The one preferred by the palaeontologist is called the preferred depth. If, however, this pick carries a low confidence rating, then a second, alternate depth may also be provided. If preferred and alternate depths are given, then the top or base of the zone or formation should also be entered.
Con_code	char(2)	**Confidence rating:** This field provides some feeling for the quality of the data. Confidence ratings apply to pick types Z and D only. Each rating consists of a simple code that represents the palaeontologist's confidence in the data's correctness. It comprises two characters. The first is alphabetic and describes the sample type used. The second is a digit that indicates the fossil assemblage.

The first character can have the following values:

A ***Core***
B ***Sidewall core***
C ***Coal cuttings***
D ***Ditch cuttings***
E ***Junk basket***
F ***Miscellaneous or unknown***
G ***Outcrop.***
U ***Core or sidewall core (nature of sample not specified in report)***

The second character defines the confidence level and can be:

1 ***Excellent*** High diversity assemblage with key zone species.
2 ***Good*** Moderate diversity assemblage with key zone species.
3 ***Fair*** Low diversity assemblage with key zone species.
4 ***Poor*** Mod.-high diversity assemblage without key zone species.
5 ***Very low***Low diversity assemblage without key zone species.
>5

Sec_code	char(1)	**Security rating:** Confidential data is flagged with the character 'C'. Open file data is flagged with the character 'O' or the field is left blank. This field is used to determine whether user with particular views of the table can have access to the record or not.
Ref_code	char(2)	**Reference code.** This field contains a two-digit code for the reference or author responsible for the record. The fieldand UNO, provide a unique link to the STD_REFS lookup table.
Active	char(1)	**Active code.** This field is used to flag whether the record is considered to represent current interpretation (with a value of 'A'), or is a previous interpretation which is effectively archived (null value).

Anchor Cay 1 -9.441389 144.058333 Papuan Basin
PEDIN/File numbers: W4690001 69/2000

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
2212.85	M4180 H	167.00	W.indotata 7BII	MIN AGE	P	D3	O	2
2609.09	M4180 L	171.50	W.indotata 7BII	MAX AGE	P	D5	O	2
2639.57	M4185 H	171.50	upper C.halosa 7CI	MIN AGE	P	D5	O	2
3313.76	S4150 L	210.00	C.torosa	MAX AGE	P	A3	O	2
3419.86	S5110 H	210.00	A.reducta TR1	MIN AGE	P	D5	O	2
3567.38	S5146 L	244.00	Lower T.playfordii TR5B	MAX AGE	P	A3	O	1

This review is based on reports by Helby & Partridge (1976) and Varney (1990 - based on microscope work by Roger Morgan).

Helby & Partridge examined 7 samples from 4 conventional cores. Morgan (in Varney) provided a range chart dealing with 40 ditch cuttings samples and 2 conventional core samples.

The Helby & Partridge data were discussed in terms of a very early version of the HMP zonation and are up-dated in this report.An attempt is made to translate the data into Davey/Simon and BP zones, although details of the respective pre-Callovian zones have not been published.

Single page palynological reports by E.M. Kemp and J.H. Ruffin were included in the well completion report. Kemp reported 4 samples, barren of palynomorphs. Ruffin did not specify the number of samples but proposed an Early Cretaceous-Late Jurassic age,noting a substantial TAI jump at 8500'.

C.R. Pickett (in the well completion report) recorded a foraminifera assemblage from Core-4 (9956-9968'), suggesting deep water and Late Jurassic to Early Cretaceous age.

Varney interpreted the sequence between 7250-7670' as P17-?P18, thus infering that it would be as young as R. aemula Zone (7a) and possiblyas young as W. spectabilis Zone (6c).

The absence of S. crystallinum, R. aemula, W. digitata (except for a questionable record at 8460/70') and questionable M. florida (at 7250/60 and 9640/50') 9 cont'd... indicate that the palynomorph suites are clearly no younger than the W. indotata Zone.

The palynomorph sequence below 8500' is not well defined. Ruffin (in WCR) suggested that there was a marked increase in maturity at this level.

The downhole disappearence of a distinctive suite, including Ternia balmei, relatively consistent Ctenidodinium spp., and Wanaea spp., is tentatively interpreted as marking the base of the W. indotata Zone.

The abundant occurrence of Corollina torosa in Core-5 (10869, 10871'11) indicates that the samples are no older than the C. torosa Zone (10), although they could be as young as C. turbatus Zone (9). Spinose acritarchs suggest marine influence.

The first downhole occurrence of Aratrisporites spp. (A. parvispinosus at 11220/30') together with Falcisporites australis suggests that the Triassic has been intersected. This is a relatively low confidence pick, but is supported by a high confidence Tr5 assignmernt in Core-6 at 11707'.

Cutting sample at 11220 ft goes to 11230 ft.

Reviewed by Robin Helby, December 1993.

1 Helby, R. J. & Partridge, A.D., (1976): Palynological analysis of core samples from the Mesozoic in Anchor Cay-1. Esso Aust. Ltd, Pal. Rpt 1976/20.
2 Varney, T.D. (1990): Palaynological data from Anchor Cay-1, Goari-1, Kuru-3 and Wuroi-1. BP Aust. Rpt. R12029.
3 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.
4 Davey,R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.
5 Welsh, A., (1990): Applied Mesozoic biostratigraphy in the Western Papuan Basin. in Carman, G.J. and S. (Eds), 1990,Petroleum Exploration in Papua New Guinea: Proceedings of the First PNG Petroleum Convention, Port Moresby, pp.369-80.
6 Kemp, E.M., (1969): Palynology of Anchor Cay No. 1 Well;in WCR.
7 Ruffin, J.H. (1969): Palynological investigation of the Anchor Cay-1 Well; in WCR
8 Pickett, C.R. (1969): Core No. 4, Anchor Cay No. 1 - Gulf of Papua; in WCR.

Angore 1 -5.975447 142.884361 Papuan Basin
PEDIN/File numbers: W9890010

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
2559.00	M3195 H	89.00	P.infusorioides 1AI	PALAEO	P	F3	O	1
3495.00	M3195 L	92.00	P.infusorioides 1AI	PALAEO	P	F5	O	1
3510.00	M3200 H	92.00	D.multispinum 1AII	PALAEO	P	F3	O	1
3648.00	M3200 L	97.50	D.multispinum 1AII	PALAEO	P	F5	O	1
3651.00	M3205 H	97.50	X.asperatus 1AIII	PALAEO	P	F3	O	1
3654.00	M3205 H	97.50	X.asperatus 1AIII	PALAEO	A	F3	O	1
3676.00	M3205 L	99.50	X.asperatus 1AIII	PALAEO	P	F3	O	1
3687.00	M3225 L	113.00	M.tetracantha 2BI/II	MAX AGE	P	F5	O	1
3690.00	M3235 H	113.00	D.davidii 2BIII	PALAEO	P	F3	O	1
3810.00	M3235 L	115.00	D.davidii 2BIII	PALAEO	A	F3	O	1
3831.00	M3235 L	115.00	D.davidii 2BIII	PALAEO	P	F5	O	1
3838.00	M3240 H	115.00	O.operculata 2C	MIN AGE	P	F5	O	1
3849.00	M3252 L	126.00	M.australis 2Dii/iii	MAX AGE	P	F5	O	1
3851.00	M3260 H	126.00	M.testudinaria 2DIV	MIN AGE	P	F3	O	1
3891.00	M3265 H	130.00	P.burgerii 3A	MIN AGE	P	F5	O	1
3975.00	M3280 L	137.00	S.areolata 3C	MAX AGE	P	F5	O	1
3978.00	M3290 H	137.00	E.torynum 4AI/II	MIN AGE	P	F3	O	1
3990.00	M3305 H	139.00	lower B.reticulatum 4AIV	MIN AGE	P	F3	O	1
4041.00	M3315 H	140.50	C.delicata 4BII	MIN AGE	P	F3	O	1
4155.00	M3327 H	143.00	P.iehiense 4CI/II	MIN AGE	P	F3	O	1

This interpretation derived entirely from Ventris & Pierce (1990).That report did not list the number and nature of the samples examined data concerning sample depths, 1 in the sample review is derived from discussion in the results section of the report.

Individual assemblage data were not provided, although comments on the occurrence of selected species are made in the results section. The lack of assemblage and sample information severely restricts confidence levels for zone assignments.

The authors indicate that depths of SWC samples are measured to one decimal place, conventional core samples to two decimal places and ditch cuttings samples to the nearest integer, suggesting that 6 SWC, 1 conventional core and in excess of 84 ditch cutting samples were examined.

The zones are re-interpreted in terms of the Helby et al. (HMP) zonation.

BP recognise a series of local bioevents (mainly abundance variations)in the P. infusorioides Zone which do not translate to the HMP scheme.

Although Welsh defined the top of the D. multispinum Zone (Dm) at the first occurrence of P. ludbrookiae, there is no mention of the species in subzone Dm (Di). The species is first reported at 3510m in subzone Dm (Eii).

BP recognise a series of local bioevents (mainly abundance variations) in the D. multspinum Zone which do not translate to the HMP scheme. These events mirror, in part, subdivisions in the Simon scheme.

The pressence of the X. asperatus Zone is well defined by the relatively consistent occurrence of the eponymous species, together with consistent D. tuberculatum and rare L. arundum.

Samples in the interval 3678-3687m are not well characterised. It is possible that the C. denticulata Zone and M. tetracantha Zone (1c-2bii) occur in the interval. M. tetracantha was tentatively identified at 3687m.

The interval of the O. operculata-M. australis zones (2c-diii), between 3831-3849m, is not well characterised. The tentative identification of M. macwhaei may indicate the pressence of the lower O. operculata Zone (2cii).

Although picks on the top and base of that interval are reasonably confident the zones within the interval 3851-3975m are not well characterised. The M. testudinaria Zone and P. burgeri are present but the occurrence of equivalents of the S. tabulata and S. areolata Zones is equivocal.

Interprertation of this well would be considerably enhanced by access to comprehensive assemblage data.

Reviewed by Robin Helby, December 1993.

1 Ventris, P.A. & Pierce, J.M. (1990): The biostratigraphy and palaeoenvironments of well Angore-1, PPL27, Papua New Guinea (Work by Simmons, M.D., Varney, T.D., Ventris, P.A. and Wonders, A.A.H.). BP Rpt ETB/56/90P.
2 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.
3 Davey, R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.
4 Welsh, A., (1990): Applied Mesozoic biostratigraphy in the Western Papuan Basin. in Carman, G.J. and S. (Eds), 1990,Petroleum Exploration in Papua New Guinea: Proceedings of the First PNG Petroleum Convention, Port Moresby, pp.369-80.

Aramia 1 -7.829297 142.3 Papuan Basin
PEDIN/File numbers: W9550001

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record					
1096.70	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	A5	O	1
1099.70	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	A	A3	O	1
1130.80	M3210	L	104.00	P.ludbrookiae 1B	MAX AGE	A	A3	O	1
1211.30	M3210	L	104.00	P.ludbrookiae 1B	MAX AGE	P	A3	O	1
1253.30	M3215	L	109.00	C.denticulata 1C/2A	MAX AGE	P	A4	O	1
1314.60	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	A3	O	1
1379.50	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	A1	O	1
1432.90	M3240	H	115.00	O.operculata 2C	MIN AGE	P	A1	O	1
1487.00	M3255	L	126.00	lower M.australis 2DIII	MAX AGE	P	D5	O	2
1509.00	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	P	D3	O	2
1589.00	M3265	H	130.00	P.burgerii 3A	MIN AGE	P	D3	O	2
1598.40	M3290	H	137.00	E.torynum 4AI/II	MIN AGE	P	A5	O	1
1621.00	M3290	H	137.00	E.torynum 4AI/II	MIN AGE	A	D3	O	2
1680.40	M4100	H	144.50	D.jurassicum 5A/B	MIN AGE	P	D4	O	1
1717.00	M4100	L	147.00	D.jurassicum 5A/B	MAX AGE	P	D3	O	2
1736.00	M4120	H	147.00	O.montgomeryi 5CI-III	MIN AGE	P	D3	O	2
1747.10	M4135	H	148.50	C.perforans 5D	PALAEO	P	A4	O	1
1748.30	M4135	L	150.00	C.perforans 5D	PALAEO	P	A2	O	1
1752.00	M4135	L	150.00	C.perforans 5D	PALAEO	A	D4	O	2
1780.00	M4145	H	154.50	W.clathrata 6B	MIN AGE	P	D3	O	2
1798.00	M4150	H	158.00	W.spectabilis 6CI/II	MIN AGE	P	D3	O	2
1814.50	M4165	L	164.00	R.aemula 7AI	MAX AGE	P	A4	O	1
1872.40	M4170	H	164.00	upper W.digitata 7AII	PALAEO	P	A3	O	1
1905.00	M4170	L	166.00	upper W.digitata 7AII	PALAEO	P	D2	O	2
1938.20	M4180	H	167.00	W.indotata 7BII	MIN AGE	P	A3	O	1

This re-interpretation is based on range data and discussion provided in Helby & Partridge (1976) and Varney (1990).

Helby & Partridge provided range data and discussion from 22 Mesozoic samples from18 conventional cores while Varney provided species lists for 27 samples Varney did not specifically indicate the nature of his samples. I interpret the samples as ditch cuttings.

The Helby & Partridge data were interpreted in terms of a very early version of the Helby zonation. They have been updated to the Helby, Morgan & Partridge zonation in this review. Varney's interpretations are expressed interms of a BP scheme which more closely resembles Davey(1988) then HMP.

Partridge (in Helby & Partridge,1976) reported on the content of 4 core samples between 91-313m. No microplankton were recorded. The spore-pollen suites were diverse, and were interpreted as Late Miocene to Pleistocene

No Cenomanian was recorded, suggesting that erosion associated with the unconformity extended into the late Albian.

The top Mesozoic sample at 1096.7m is assigned tentatively to the late Albian on the basis of the occurrence of Diconodinium pusillum. The next sample at 1099.7m contains a high confidence late Albian assemblage.

Early to mid Albian is not well defined. Early Albian M. tetracantha Zone(2biii) was not identified. Upper early to mid Albian upper C. denticulata Zone (1c-) at 1253.3m, was identified with only low to moderate confidence.

The Neocomian sequence is not well defined. Samples between 1432.9-1487m are assigned to the interval of the O. operculata to the M. australis Zone (2c/dii). The assignment of the sample at 1487m to the lower M. australis Zone (2diii) is based on the questioned occurrence of P. neocomica.

The first downhole occurrence of G. lowii indicates that the sample at 1509 is noyounger than the M. testudinaria Zone (2div+).

Samples from 1539m are considered no younger than the P. burgeri Zone (3a+) on the basis of the apparent absence of D. cerviculum & the downhole occurrence of R. munu, Avellodinium spp. & Systematophora spp. with muderongoids

The occurrence of P. mirabila in the core sample at1598.4m suggests that the sample is no younger than the E. torynum Zone (4a+). This interpretation is supported by the occurrence of E. torynum, R. aemula and S. ptomatis in ditch cuttings at 1621m. More precise assignment is not possible with these data.

Berriasian to upper Tithonian assemblages (4aii-4c) were not identified.
However, Varney recorded P. iehiense (P. iehiense Zone - 4ci/ii) as caving at deeper levels.

Helby subdivisions of the D.jurassicum zone were not evident. However, Varney recorded a substantial increase in the proportion of Nannoceratopsis at 1717m suggesting a correlation with N. pellucida Zone of Davey (1988=BP P13c).

The D. swanense Zone (6a) was not identified, although the occurrence of G. dimorphum in ditch cuttings at 1752m may indicate its presence.

1 Helby, R.J. & Partridge, A.D. (1976): Palynological analysis of Aramia-1,Papuan Basin. Esso Aust. Ltd Palaeontological Report 1976/5
2 Varney, T.D. (1990): Palynological data from Aramia-1, Iamara-1 and Mutare-1 Papuan Basin, Papua New Guinea. BP Australia Ltd Report.
3 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
4 Davey,R.J., (1988): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.

Barikewa 1 -7.114443 143.922498 Papuan Basin
PEDIN/File numbers: W9580001

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
1047.90	M3210	L	104.00	P.ludbrookiae 1B	MAX AGE	P	A3	O	1
1208.20	M3211	L	106.50	C.denticulata Upper	MAX AGE	P	A4	O	1
1250.00	M3225	H	109.00	M.tetracantha 2BI/II	MIN AGE	P	D2	O	3
1441.70	M3235	L	115.00	D.davidii 2BIII	MAX AGE	P	A2	O	1
1453.00	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	P	D2	O	3
1530.70	M3265	L	132.00	P.burgerii 3A	MAX AGE	P	A2	O	1
1657.80	M3310	H	139.50	D.lobispinosum 4BI	MIN AGE	P	A2	O	1
1760.80	M3327	H	143.00	P.iehiense 4CI/II	PALAEO	P	A1	O	1
1762.40	M3327	L	144.50	P.iehiense 4CI/II	PALAEO	P	A1	O	
1896.80	M4105	H	144.50	upper D.jurassicum 5A	PALAEO	P	A1	O	1
1902.60	M4105	L	145.50	upper D.jurassicum 5A	PALAEO	P	A1	O	1
2192.10	M4135	H	148.50	C.perforans 5D	MIN AGE	P	A4	O	1
2204.00	M4140	L	154.50	D.swanense 6A	MAX AGE	P	D2	O	3
2446.90	M4150	H	158.00	W.spectabilis 6CI/II	MIN AGE	P	A4	O	1
2557.90	M4150	L	162.00	W.spectabilis 6CI/II	MAX AGE	P	A3	O	1
2562.20	M4150	L	162.00	W.spectabilis 6CI/II	MAX AGE	A	D3	O	1
3209.00	M4170	H	164.00	upper W.digitata 7AII	MIN AGE	P	D3	O	3

This re-interpretation is based on range data and discussion provided in Helby & Partridge (1976), Helby & Partridge (1977 - summary only), and Welsh (1989).

Helby & Partridge provided range data and discussion concerning 27 Mesozoic samples from 17 conventional cores; Helby & Partridge (1977) summarized data from 8 ditch cuttings samples; Welsh (1989) provided a range chart and zone summary for 25 ditch cuttings samples.

The Helby & Partridge data were interpreted in terms of a very early version of the Helby zonation. These interpretations have been updated to the Helby, Morgan & Partridge zonation in this review. Welsh's interpretations are expressed in terms of a BP scheme which more closely resembles Davey (1988) than HMP.

The Helby & Partridge data were reinterpreted from the original tick sheets, and in some cases additional microscope examination was conducted.

Partridge (in Helby & Partridge (1976) reported that the palynomorph suites in samples at 973.2m and 1002.9m were Eocene in age.

The Albian assemblages were not well characterized. The highest Mesozoic sample at 1047.9m is assigned, with moderate confidence, to the P. ludbrookiae Zone. The sample at1208.2m is tentatively considered no older than upper C. denticulata Zone on the basis of the prominent occurrence of Diconodinium spp together with L. chamydata.

The late Aptian D. davidii Zone (2biii) was not identified. However, the occurrence of P. turneri at 1441.7m suggests that the sample is no older than the D. davidii Zone.

Assemblages in the interval of the O. operculata Zone to M. australis Zone are not identified.

Welsh (1989) assigned the sample at 1487m to the M. australis Zone. However, M. testudinaria was recorded at this level on Welsh's range chart.

Dingodinium cerviculum was recorded in all samples between 1453m-1510m, supporting an assignment to the M. testudinaria Zone. However,samples are derived from ditch cuttings and caving origin should not be totally discounted.

Assemblages from the interval of the Senoniapshaera tabulata Zone (3b) to the Batioladinium reticulatum Zone (4aiv) were not recorded but may be represented in the sample gap between 1530.7m-1657.8m.

Davey (1988) indicated that the first downhole occurrence of Broomea ramosa (=Batioladinium apcioramosa) occurs within his P. apiculatum Zone, which was considered equivalent to the D. lobisinosum Zone of HMP (1987).

The samples at 1896.8m and 1902.6m were dominated by Nummus similis and clearly conform to the N. similis Zone of Davey (1988) and subzone 5ai of the D. jurassicum Zone (HMP - current usage).

The lower D. jurassicum Zone (5b) and the O. montgomeryi Zone (5c) were notidentified but may be obscured by the sample gap between 1902.6m-2192.1m.

The Wanaea clathrata Zone (6b) was not recorded, although there is a substantial sample gap between 2204m-2446.9m.

The abundant occurrence of M.P. 620 at 2557.9m indicates penetration of the lower subunit in the middle W. spectabilis Zone (6ciib).

Assemblages below 2600m are not well defined and kerogen is ranging into gas maturity levels, so that presevations is invariably poor.

The first downhole occurrence of Wuroia capnosa and Ctenidodinium sp. 501at 3209m suggests that the samples below that level are no younger than the upper W. digitata Zone(7bia). Welsh assigned the sample at 3209m to the W. indotata Zone (7bii).

This assemblage dominated deeper cuttings samples. Core samples between 3135.5m-4162.5m did not provide diagnostic assemblages, so that the lower limits of this assemblage are uncertain.

Reviewed by Robin Helby - October 1993.

1 Helby, R.J. & Partridge, A.D. (1976): Palynological analysis,Barikewa-1Papuan Basin. Esso Aust. Palaeontol. Rpt 1976/12.
2 Helby, R.J. & Partridge, A.D. (1977): Supplementary palynological summary,Barikewa-1, Papuan Basin (unpublished report).
3 Welsh, A. (1989): Palynological data from Barikewa-1, Iamara-1, Iehi-1, Komewu-2 and Morehead-1, Papuan Basin, Papua New Guinea. BP report-R10989.
4 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
5 Davey,R.J., (1988): Palynological zonation of the Lower Cretaceous, Upperand uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77

Darai 1 -7.014778 143.476139 Papuan Basin
PEDIN/File numbers: W9750003

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
854.50	M3210 H	99.50	P.ludbrookiae 1B	MIN AGE	P	B3	O	1
888.00	M3210 L	104.00	P.ludbrookiae 1B	MAX AGE	P	B3	O	1
1193.50	M3240 L	119.50	O.operculata 2C	MAX AGE	P	B3	O	1
1440.00	M3260 L	130.00	M.testudinaria 2DIV	MAX AGE	P	B3	O	1
1515.00	M3290 H	137.00	E.torynum 4AI/II	MIN AGE	P	B3	O	1
1545.00	M3325 L	144.00	upper P.iehiense 4CI	MAX AGE	P	B5	O	1
1661.50	M4100 H	144.50	D.jurassicum 5A/B	MIN AGE	P	B5	O	1
1900.00	M4120 H	147.00	O.montgomeryi 5CI-III	MIN AGE	P	U5	O	1
1995.00	M4135 H	148.50	C.perforans 5D	MIN AGE	P	B5	O	1

This re-interpretation is based on the report by Ingram. Ingram's report did not include range charts, and his discussion was based on groups of samples with aggregated listings, although discussion and/or lists for three individual samples,were included.

The nature of Ingram's presentation generally preclude sample by sample analysis of the results. Indeed, my interpretation is based on the dangerous assumption that Ingram's listed species occur throughout the interval discussed.

Ingram did not assign the zones to the existing unpublished zonations. The samples are interpreted here in terms of the Helby, Morgan & Partridge (1987) zonation.

The assignment to the P. ludbrookiae Zone is based on the occurrence of P. ludbrookiae with Diconodinium spp.

The occurrence of Odontochitina operculata suggests that the sample at1193.5m is no older than the O. operculata Zone.

The sample at 1440m is considered no older than the M. testudinaria Zone on the basis of the occurrence of Dingodinium cerviculum, while the record of Gardodinium cf. trabeculosum (possibly = G. lowii) suggests that the sample is no younger than the M. testudinaria Zone.

Ingram designated a Neocomian interval between 1515-1545m. The sample listing on page 1 suggest that there is no sample at 1545m. SWC samples are listed at 1542m and 1548m.

The occurrence of Egmontodinium (=Prolixosphaeridium) torynum suggests that the sample is no younger than the E. torynum Zone. The occurrence of Cicatricosisporites spp. indicates that the sample is no older than the upper Psuedoceratium iehiense Zone.

The samples in the interval 1661.5-1710m are considered no older thanthe upper Dingodinium jurassicum Zone on the basis of the occurrence ofNummus (=Leiosphaeridia) similis.

The occurrence of Wanaea clathrata in the interval 1837-1841.5m istentatively interpreted as reworking. Evidence of reworking is often prominent in the lower D. jurassicum Zone.

The occurrence of Omatia montgomeryi at 1900m suggests that the sampleis no older than the O. montgomeryi Zone. It is not clear whether the sample discussed refers to the SWC of the ditch cuttings sample.

The samples at and below 1995m are tentatively interpreted as no younger than the Cribroperidinium perforans Zone and no older than the Wanaea clathrata Zone on the basis of the apparent absence of O. montgomeryi, Dingodinium swanense and Wanaea spp.

Reviewed by Robin Helby - September 1993.

1 Ingram, B. (1976): Palynology Report in Darai-1 Well Completion Report (May 1976).
2 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.

Dibiri 1 -8.282722 144.671269 Papuan Basin
PEDIN/File numbers: W9740001 74/126

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
3700.27	M4165 H	162.00	R.aemula 7AI	MIN AGE	A	B4	O	1
3700.27	M4180 H	167.00	W.indotata 7BII	MIN AGE	P	B4	O	1
4894.17	S4125 L	173.00	C.cooksoniae	MAX AGE	P	A4	O	1

This interpretation is based on assemblage data and discussion concerning 35 samples (see Table 1) in Partridge (1975). The samples included 28 SWC, 1 conventional core sample, 4 ditch cuttings and 2 junk basket (?) samples.

Partidge defined two, apparently facies controlled, biounits. The upper unit(8035-10018ft in text), was considered Pliocene while the lower unit(10207-11998 ft in text) was assigned to the Tertiary, on the basis of then current literature.

The upper biounit was apparently characterised by Stenochlaenidites papuanus (= Scizaea papuana), Spinozonocolpites baculatus, Crassi. vanraadshoovenii and Magnastriatites howardii. Morley (1990) indicates that these taxa all extend into the Miocene, some to Eocene. Despite these range extensions a Pliocene age should not be discountered.

Partridge assigned the sequence between 12140-16057ft to the Mid Jurassic on the basis of prominent Callialasporites dampieri with rare Contignisporites cooksoniae and the apparent absence of Murosporaflorida. That interpretation is supported.

The Meiouorgonyaulax suite recorded by Partridge includes M. sp. cf. M. sp. 70, which ranges from R. aemula Zone to W. indotata Zone (7a-7bii). The apparent absence of Wanaea digitata and M. florida suggest that the suite is older than the W. digitata Zone(7bi),although occurrences may be controlled by facies.

Re-examination of available slides is recommended.

Reviewed by Robin Helby, December 1993.

1 Partridge, A. (1975). Palynology Studies Dibiri-1A. Dibiri well completion report, Appendix E.
2 Morley, R. (1990). Tertiary statographic palynology in Asia; Current status and new directions. Keynote address to Geological Society of Malaysia, Petroleum Geology Seminar, Kuala Lumpur, November, 1990.

Elevala 1
*** CONFIDENTIAL *** -6.151367 141.76595 Papuan Basin
PEDIN/File numbers: W9890011

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
2350.00	M3195	H	89.00	P.infusorioides 1AI	MIN AGE	P	F5	O	1
2395.00	M3195	L	92.00	P.infusorioides 1AI	MAX AGE	P	F5	O	1
2411.00	M3200	H	92.00	D.multispinum 1AII	PALAEO	P	D3	O	1
2890.00	M3200	L	97.50	D.multispinum 1AII	PALAEO	P	F5	O	1
2900.00	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	B5	O	1
2905.00	M3210	L	104.00	P.ludbrookiae 1B	MAX AGE	P	B3	O	1
2920.00	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	B3	O	1
2939.00	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	F3	O	1
3015.00	M3235	L	115.00	D.davidii 2BIII	MAX AGE	A	F5	O	1
3022.00	M3245	H	118.50	A.cinctum 2DI	MIN AGE	P	B5	O	1
3055.50	M3252	L	126.00	M.australis 2Dii/iii	MAX AGE	P	B3	O	1
3059.00	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	P	B3	O	1
3081.00	M3260	L	130.00	M.testudinaria 2DIV	MAX AGE	P	B3	O	1
3089.00	M3260	L	130.00	M.testudinaria 2DIV	MAX AGE	A	B5	O	1
3099.00	M3265	L	132.00	P.burgerii 3A	MAX AGE	P	A3	O	1
3101.00	M3290	H	137.00	E.torynum 4AI/II	MIN AGE	A	F5	O	1
3110.00	M3290	H	137.00	E.torynum 4AI/II	MIN AGE	P	D3	O	1
3130.00	M3290	L	138.00	E.torynum 4AI/II	MAX AGE	P	B3	O	1
3145.00	M3315	H	140.50	C.delicata 4BII	MIN AGE	P	B3	O	1
3155.00	M3327	H	143.00	P.iehiense 4CI/II	MIN AGE	P	B3	O	1
3168.00	M3327	H	143.00	P.iehiense 4CI/II	MAX AGE	P	B3	O	1
3179.00	M4206	L	144.50	Leiosphaerid 4Ciii (Helby)	MAX AGE	P	F5	O	1

This interpretation derived entirely from Rutherford (1990). The report did not list the number and nature of the samples examined. Data concerning sample depths and type, in the sample review, is derived from Appendix 1 .

Individual assemblage data were not provided,although comments on the occurrence of selected species are made in Appendix 1. The lack of assemblage and sample information restricts confidence levels for zone assignment.

The zones are re-interpreted in terms of the Helby et al. zonation.

The sample at 2330m is tentatively regarded as no younger than Early Eocene on the basis of the occurrence of Spinozonocolpites baculatus. Morley (1990, Fig. 2) indicates that S. baculatus does not range above the Early Eocene in the Waripi Formation in Irian Jaya.

Assignment of samples to the P. infusorioides Zone is tentative. The BP report does not mention the occurrence of the eponymous species in the zone discussion, although the lower downhole appearance of P. ludbrookiae indicates that the samples are no older than the P. infusorioides Zone.

The basis of assignment of samples between 2900-2905m to the P. turneri Zone is not clear. The eponymous species was not mentioned, nor were P.turneri, Diconodinium spp., D.tuberculatum and L.arundum, which might characterise this

The deepest occurrence of P. ludbrookiae at 2905m indicates that the sample is no older than the P. ludbrookiae Zone.

There is no evidence of the M. tetracantha Zone or C. denticulata Zone (1c-2bii), suggesting that the early to mid Albian is condensed or missing.

The S. tabulata Zone and S. areolata Zone (3b/c) are not evident. The2m sample gap suggests that a major part of the Valanginian is condensed or missing.

The reasoning for assignment of the sample at 3101m is not stated, although the first downhole occurrence of E. torynum is recorded at 3110m, with abundant E. torynum reported at 3130m.

The co-occurrence of P. apiculatum and P. mirabila at 3145m,suggest that the sample is no younger than the P. mirabila Zone, which Davey (1987) and Welsh (1990) equate with the C. delicata Zone. However, the BP assignment suggests that they may now recognize P. mirabila as extending above the P. mirabila Zone.

The BP discussion and zone assignment of the samples between 3168- 3179m suggest that the Nummus similis acme, which characterises the top of BP Ns subzone (= P13b) and the top of the D. jurassicum Zone of Helby, Morgan & Partridge (1987) was not intersected.

Re-interpretation would be enhanced significantly if full palynomorph distribution data were available.

Reviewed by Robin Helby, December 1993.

1 Rutherford, M.M. (1990): The biostratigraphy of the well Elelvava-1, PPL 81, Papua New Guinea (work by P.A. Ventrisand A.A.H. Wonders).
2 Helby, R., Morgan, R., & Partridge, A.D., (1987): Apalynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.
3 Davey,R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.
4 Welsh, A., (1990): Applied Mesozoic biostratigraphy in the Western Papuan Basin. in Carman, G.J. and S. (Eds), 1990, Petroleum Exploration in Papua New Guinea: Proceedings of the First PNG Petroleum Convention, Port Moresby, pp.369-80.
5 Morley, R. (1990). Tertiary statographic palynology in Asia; Current status and new directions. Keynote address to Geological Society of Malaysia, Petroleum Geology Seminar, Kuala Lumpur, November, 1990.

Goari 1 -7.635636 143.862244 Papuan Basin
PEDIN/File numbers: W9780001 78/926

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
2200.00	M3310 L	140.50	D.lobispinosum 4BI	MIN AGE	P	B4	O	1
2272.00	M3320 L	143.00	K.wisemaniae 4BIII	MAX AGE	P	B4	O	1
2282.50	M3327 H	143.00	P.iehiense 4CI/II	PALAEO	P	B3	O	1
2317.80	M3327 L	144.50	P.iehiense 4CI/II	PALAEO	P	B1	O	1
2338.00	M3327 L	144.50	P.iehiense 4CI/II	PALAEO	A	B5	O	1
2384.00	M4206 L	144.50	Leiosphaerid 4Ciii (Helby)	MAX AGE	P	B4	O	1
2470.00	M4100 H	144.50	D.jurassicum 5A/B	PALAEO	P	B2	O	1
2608.80	M4100 L	147.00	D.jurassicum 5A/B	PALAEO	P	B2	O	1
2628.00	M4120 H	147.00	O.montgomeryi 5CI-III	PALAEO	P	B1	O	1
2709.00	M4120 L	148.50	O.montgomeryi 5CI-III	PALAEO	P	B2	O	1
2723.00	M4140 H	150.00	D.swanense 6A	PALAEO	P	B2	O	1
2731.00	M4140 L	154.50	D.swanense 6A	PALAEO	P	B2	O	1
2770.00	M4145 H	154.50	W.clathrata 6B	MIN AGE	P	B4	O	1
2793.50	M4145 H	154.50	W.clathrata 6B	PALAEO	P	B1	O	1
2840.00	M4150 H	158.00	W.spectabilis 6CI/II	PALAEO	A	B1	O	1
2877.00	M4145 H	154.50	W.clathrata 6B	PALAEO	A	B2	O	1
2884.00	M4150 H	158.00	W.spectabilis 6CI/II	PALAEO	P	B2	O	1
3082.00	M4150 L	162.00	W.spectabilis 6CI/II	PALAEO	P	B4	O	1
3094.00	M4165 H	162.00	R.aemula 7AI	PALAEO	P	B4	O	1
3122.00	M4165 L	164.00	R.aemula 7AI	PALAEO	P	B4	O	1

This review is based on data provided by Helby & Partridge (1979).

The interpretation is based on assemblage data concerning 57 SWC samples. Additional samples, including 4 SWC's, 15 cuttings samples and 2 junk basket samples, were included on Table 1 and/or briefly discussed in the report but no distribution data were provided.

The data were interpreted in terms of a very early version of the HMP zonation, and are updated in this report. I have also attempted to interpret them in terms of the BP (Welsh, 1990) scheme and the current Simon scheme.

Data concerning samples between 114-2160m were summarized on Table 1. In the Geological Comments it was suggested that the Mesozoic section might extend as high as 2147m (under the casing).

The Berriasian sequence is not well characterised and samples between2200-2272m are assigned to the interval - D. lobispinosum Zone to K. wisemaniae Zone.

The sand at 2417-2465m was assigned to D. jurassicum Zone on the basis of the prominent occurrence of Nummus similis (=LJ5 of the Simon zonal scheme).

The C. perforans Zone (ss) was not recorded, although there is a minor sample gap of 14m.

Sample integrity is questionable in the W. clathrata (6b) and W. spectabilis (6c) zones. contamination is evident in a number of samples and some difficulty is experienced in breaking out W. clathrata from W. spectabilis

Reviewed by Robin Helby, November 1993.

1 Helby, R. J. & Partridge, A.D., (1979): Palynological analysis of Goari-1, Papuan Basin. Esso Aust. Ltd, Pal. Rpt 1979/12.
2 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.
3 Davey,R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.
4 Welsh, A., (1990): Applied Mesozoic biostratigraphy in the Western Papuan Basin. in Carman, G.J. and S. (Eds), 1990,Petroleum Exploration in Papua New Guinea: Proceedings of the First PNG Petroleum Convention, Port Moresby, pp.369-80.

Goaribari 1
*** CONFIDENTIAL *** -8.635869 144.393528 Papuan Basin
PEDIN/File numbers: W9890012

'*' = non-active record

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
3190.00	M4165	H	162.00	R.aemula 7AI	PALAEO	P	D4	O	1
3214.00	M4165	L	164.00	R.aemula 7AI	PALAEO	P	B2	O	1
3278.00	M4171	H	164.00	W.digitata 7AII/BI	MIN AGE	A	B4	O	1
3278.00	M4165	L	164.00	R.aemula 7AI	PALAEO	A	B4	O	1
3379.00	M4171	H	164.00	W.digitata 7AII/BI	MIN AGE	P	B3	O	1
3465.00	M4171	L	167.00	W.digitata 7AII/BI	MAX AGE	P	B3	O	1
3500.00	M4171	L	167.00	W.digitata 7AII/BI	MAX AGE	A	B4	O	1
3616.00	M4180	H	167.00	W.indotata 7BII	MIN AGE	P	D5	O	1
3810.00	S4125	L	173.00	C.cooksoniae	MAX AGE	P	B3	O	1

This review is based on data provided by Dirk Hos in Lloyd, Rexilius & Hos (1990).

Hos provided distribution data for 11 ditch cuttings samples and 13 sidewall core samples. Two assemblage lists were provided and one sample was characterised as barren.

Hos suggested that his interpretations were expressed in terms of the HMP(1987) zonation. The data are reinterpreted in terms of the HMP zonation and translated to the Davey (1987) and Welsh (1990) schemes in the sample summary.

The ditch cuttings sample at 3166m was interpreted as no older than Mid Eocene, on the basis of nannoplankton content.

Morley (1990), indicated that F. trilobata extended to the Mid Eocene (in Java), thus the palynological suite is not inconsistent with the nanno age, although the nature of the sample must be taken into account.

Hos tentatively identified fragments of R. aemula between 3271-3292m, including the SWC sample at 3278m. The fragments in the cuttings samples may be caved. The SWC material cannot be easily dismissed.

The base of the W. digitata Zone is defined by the lowest occurrence of the nominate species. Helby et al. (1987)indicate that this corresponds to the base range of M. florida. Hos recorded M. florida at 3500m and on this basis is suggested as an alternate base to the Zone.

Hos's concept of the M. florida Zone differs markedly from HMP, possibly incorporating the C. cooksoniae Zone. M. florida was recorded at 3682m and tentative identifications were recorded at 3650m and 3797m.

These are well below the deepest occurrence of W. digitata andare tentatively assigned to the W. indotata Zone and the C. cooksoniae zone

I recommend that the slides should be re-examined.

Note: 3616m ditch cutting covers interval 3616-3619m.

Reviewed by Robin Helby - October 1993.

1 Hos, D.P.C. (in Lloyd, A.R., Rexilius, J.P. & Hos, D.P.C. , 1990): Biostratigraphic report on Goaribari-1, PPL63, Papua New Guinea. Rpt for Premier Oilfields of Niugini Pty Ltd.

2 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.

3 Davey,R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.

4 Welsh, A., (1990): Applied Mesozoic biostratigraphy in the Western Papuan Basin. in Carman, G.J. and S. (Eds), 1990, Petroleum Exploration in Papua New Guinea: Proceedings of the First PNG Petroleum Convention, Port Moresby, pp.369-80.

5 Morley, R. (1990). Tertiary statographic palynology in Asia; Current status and new directions. Keynote address to Geological Society of Malaysia, Petroleum Geology Seminar, Kuala Lumpur, November, 1990.

Gobe 1 -6.743972 143.688361 Papuan Basin
PEDIN/File numbers: W9880004

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
845.82	M3200 H	92.00	D.multispinum 1AII	PALAEO	P	B2	O	1
1377.70	M3200 L	97.50	D.multispinum 1AII	PALAEO	P	D4	O	1
1408.18	M3205 H	97.50	X.asperatus 1AIII	MIN AGE	P	D4	O	1
1441.70	M3215 L	109.00	C.denticulata 1C/2A	MAX AGE	P	D4	O	1
1469.14	M3225 H	109.00	M.tetracantha 2BI/II	MIN AGE	P	D2	O	1
1496.57	M3240 L	119.50	O.operculata 2C	MIN AGE	P	D4	O	1
1554.48	M3252 L	126.00	M.australis 2Dii/iii	MAX AGE	P	D4	O	1
1581.91	M3265 H	130.00	P.burgerii 3A	MIN AGE	P	D2	O	1
1636.78	M3280 L	137.00	S.areolata 3C	MAX AGE	P	D4	O	1
1664.21	M3290 H	137.00	E.torynum 4AI/II	MIN AGE	P	D2	O	1
1746.50	M3320 L	143.00	K.wisemaniae 4BIII	MAX AGE	P	D4	O	1

Data from 5 SWC and 28 ditch cuttings samples are recorded on the range chart from Gobe 1X

The distribution data have been interpreted in terms of the zonation proposed by Helby, Morgan & Partridge (1987)

The distribution data provided for Gobe-1X lack information on many diagnostic taxa. The precision of zonation is thus limited.

Oodnadattia (Dinopterygium) tuberculatum is shown to range through the Diconodinium multispinum (1aii) Zone. Normally, this form does not range above the Xenascus asperatus (1aiii) Zone.

Diconodinium davidii was not recorded, even in the cuttings.

The Neococomian interval is not well characterized in Gobe-1X

Reviewed by Robin Helby, June 1993.

1 Bates, C.D., Davey, R.J., Flett, S.D. & de Leon, M.M.: The Biostratigraphy and depositional environment of the Chevron Niugini Pty Ltd Gobe-1X and Gobe-1X ST wells drilled in the PPL 100 area, PNG Project No. S/I/889/12, Nov 1988.

Gobe 1X ST 1 -6.743972 143.688361 Papuan Basin
PEDIN/File numbers: W9880012

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
1566.67	M3265	H	130.00	P.burgerii 3A	PALAEO	P	D2	O	1
1612.39	M3265	L	132.00	P.burgerii 3A	PALAEO	P	D4	O	1
1621.54	M3270	H	132.00	S.tabulata 3B	MIN AGE	P	D4	O	1
1648.97	M3290	H	137.00	E.torynum 4AI/II	MIN AGE	P	D4	O	1
1722.09	M3310	H	139.50	D.lobispinosum 4BI	MIN AGE	P	B4	O	1
1769.06	M3320	L	143.00	K.wisemaniae 4BIII	MAX AGE	P	B4	O	1
1790.73	M3327	H	143.00	P.iehiense 4CI/II	PALAEO	P	B2	O	1
1900.43	M3327	L	144.50	P.iehiense 4CI/II	PALAEO	P	B2	O	1
1926.34	M4206	H	144.00	Leiosphaerid 4Ciii (Helby)	PALAEO	P	B2	O	1
1935.48	M4206	L	144.50	Leiosphaerid 4Ciii (Helby)	PALAEO	P	B2	O	1
1952.27	M4100	H	144.50	D.jurassicum 5A/B	PALAEO	P	B2	O	1
2164.14	M4100	L	147.00	D.jurassicum 5A/B	PALAEO	P	B4	O	1
2176.27	M4110	H	145.50	lower D.jurassicum 5B	MIN AGE	P	B2	O	1
2319.50	M4135	L	150.00	C.perforans 5D	MAX AGE	P	B2	O	1
2328.67	M4140	H	150.00	D.swanense 6A	PALAEO	P	B2	O	1
2401.85	M4140	L	154.50	D.swanense 6A	PALAEO	P	B4	O	1

Distribution data from 47 SWC and 9 ditch cuttings samples are recorded on the range chart.

These data have been interpreted in terms of the zonation proposed by Helby, Morgan & Partridge (1987).

Zone assignments between 5140-5590ft are based on ditch cuttings.

Bates et al. tentatively assign the sample at 5410m to the interval of the E. torynum to L. pinnosum Zones (4a) on the occurrence of Hystrichosphaeridium pachydermum and Avellodiniumsp. 2. This is a very tenuous assignment.

HMP zone assignments between 5875-7311m are high confidence picks.

Wanaea clathrata, recorded at 7880.1m, was interpreted as reworked. Kimmeridgian and Oxfordian reworking was noted at several higher levels in the Gobe wells. However, the possibility that the W. clathrata Zone (6b) has been intersected should not be totally discounted.

Reviewed by Robin Helby, June 1993.

1 Bates, C.D., Davey, R.J., Flett, S.D. & de Leon, M.M.: The Biostratigraphy and depositional environment of the Chevron Niugini Pty Ltd Gobe-1X and Gobe-1X ST wells drilled in the PPL 100 area, PNG Project No. S/I/889/12, Nov 1988.

Hedinia 1X -6.461861 143.204528 Papuan Basin
PEDIN/File numbers: W9880011

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
1143.00	M3195	H	89.00	P.infusorioides 1AI	PALAEO	P	B3	0	2
1219.20	M3195	L	92.00	P.infusorioides 1AI	PALAEO	P	B2	0	2
1280.16	M3200	H	92.00	D.multispinum 1AII	PALAEO	P	B2	0	2
1432.56	M3200	L	97.50	D.multispinum 1AII	PALAEO	P	B2	0	2
1524.61	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	B5	0	2
1798.32	M3210	L	104.00	P.ludbrookiae 1B	MAX AGE	P	B2	0	2
1859.28	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	B2	0	2
1940.66	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	B2	0	2
2000.71	M3240	H	115.00	O.operculata 2C	MIN AGE	P	B4	0	2
2028.44	M3252	L	126.00	M.australis 2Dii/iii	MAX AGE	P	B4	0	2
2033.02	M3265	L	132.00	P.burgerii 3A	MAX AGE	P	D3	0	2
2033.02	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	P	D3	0	2
2059.53	M3290	H	137.00	E.torynum 4AI/II	PALAEO	P	D3	0	2
2100.07	M3290	H	137.00	E.torynum 4AI/II	PALAEO	A	D2	0	2
2123.85	M3290	L	138.00	E.torynum 4AI/II	PALAEO	P	A2	0	2
2182.37	M3298	H	138.00	B.reticulatum 4AIII/IV	MIN AGE	P	D3	0	2
2258.57	M3310	H	139.50	D.lobispinosum 4BI	MIN AGE	P	D4	0	2
2258.57	M3325	H	143.00	upper P.iehiense 4CI	MIN AGE	A	D4	0	2
2313.43	M3325	H	143.00	upper P.iehiense 4CI	MIN AGE	P	D2	0	2
2395.73	M4105	H	144.50	upper D.jurassicum 5A	PALAEO	P	D2	0	2
2423.16	M4105	L	145.50	upper D.jurassicum 5A	PALAEO	P	D2	0	2
2450.59	M4110	H	145.50	lower D.jurassicum 5B	PALAEO	P	D2	0	2
2590.80	M4110	L	147.00	lower D.jurassicum 5B	PALAEO	P	D2	0	2

This interpretation is based on analysis of range chart data presented by Bates et al., 1988.

The range chart recorded the distribution of taxa in 28 sidewall core samples,24 ditch cuttings samples and one conventional core. Samples below 6655ft are all ditch cuttings, with the exception of the core at 6968ft. Zone interpretations should be read taking the limitations into account.

The zonal scheme used in this interpretation is adapted from Helby, Morgan & Partridge (1987).

The lowest occurrence of Pseudoceratium ludbrookiae on the range chart is shown at 5900ft. However, the base range of P. ludbrookiae in the notes column is shown at 6000ft.

Zones in the interval 6376-6655ft are not well characterized.

The occurrence of Systematophora spp. from 6670ft suggest that the samples are probably as old as the P. burgeri Zone.

Equivocal identifications of Pseudoceratium iehiense at 7410ft and P. weymouthense at 7500ft may indicate that the top of the P. iehiense Zone could extend at least as high as7410ft.

Bates et al. locate the top of the Oligosphaeridium sp. 1 Zone, which corresponds to the base of Davey's P. ihiense Zone, at 7240ft.

Reviewed by Robin Helby - May 21, 1993.

1 Bates, C.D., Davey, R.J., Flett, S.D. & de Leon, M.M.: The Biostratigraphy and depositional environment of the Chevron Niugini Pty Ltd Hedinia-1X well, drilled in the PPL 100 area, Papua New Guinea. June 1988.
2 Helby, R., Morgan, R., & Partridge, A.D., (1987): palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.

Iagifu 1S -6.365 143.21167 Papuan Basin
PEDIN/File numbers: W9840006

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
1205.00	M3195 H	89.00	P.infusorioides 1AI	PALAEO	P	A5	O	2
1369.50	M3195 L	92.00	P.infusorioides 1AI	PALAEO	P	A4	O	2
1371.00	M3200 H	92.00	D.multispinum 1AII	PALAEO	P	A2	O	2
2075.00	M3200 L	97.50	D.multispinum 1AII	PALAEO	P	A2	O	2
2083.50	M3205 H	97.50	X.asperatus 1AIII	PALAEO	P	A2	O	2
2173.00	M3205 L	99.50	X.asperatus 1AIII	PALAEO	P	A1	O	1
2184.00	M3210 H	99.50	P.ludbrookiae 1B	PALAEO	P	D2	O	1
2230.00	M3210 L	104.00	P.ludbrookiae 1B	PALAEO	P	D4	O	1
2256.00	M3225 H	109.00	M.tetracantha 2BI/II	PALAEO	P	D4	O	1
2272.00	M3225 L	113.00	M.tetracantha 2BI/II	PALAEO	P	D4	O	1
2274.00	M3235 H	113.00	D.davidii 2BIII	PALAEO	P	D4	O	2
2312.00	M3235 L	115.00	D.davidii 2BIII	PALAEO	P	D4	O	1
2316.00	M3240 H	115.00	O.operculata 2C	MIN AGE	P	D4	O	3
2338.00	M3235 L	115.00	D.davidii 2BIII	PALAEO	A	D4	O	1
2388.00	M3245 L	120.50	A.cinctum 2DI	MAX AGE	P	D4	O	1

This interpretation is based on data from 3 reports - Ingram (1984)Norton (1986) and Norton & Denison (1987).

Ingram provided data from 20 core chip samples (between 1196.5-2173.0m) and 8 ditch cuttings samples between 2184-2388m)

Norton provided data from 133 core samples (between 1195.74-2172m)

Norton & Denison reviewed Norton's core samples and data from anadditional 11 ditch cuttings samples (between 2194-2386m).

Ingram's data are presented as distribution sheets - box matrices, with some quantitative information as well as presence or absence in individual samples.

Norton and Denison provided data as total range charts which obscure individual sample data.

Confidence levels for samples assigned to the P. infusorioides Zone are relatively low, due to low numbers of microplankton recorded. Ingram noted that his assignment was based on negative evidence. Nortons's assignments are based on the occurrence of the eponymous species between 1277-1343m and the apparent absence of older and younger index species.

Norton and Denison placed the top of the D. multispinum Zone at 1369.5 on the basis of the first downhole occurrence of the nominate species together with D. dispersum. However, they did not record P. ludbrookiae until 1371m and the top of the zone is preferred at that level.

There is obvious confusion in Norton's and Denison & Norton's interpretation of Diconodinium multispinum. D. multispinum (sensu stricto), by definition, does not extend below the base of the eponymous zone.

Norton's data suggest that Xenascus asperatus extends between 2083.5 and 2172m. Ingram recorded X. asperatus at 2173m. The assignment is supported by the first downhole occurrence of Litosphaeridiumarundum and D. tuberculatum.

Ingram tentatively assigned the sample at 2230m to the Canninginopsis denticulata Zone, on the basis of first downhole occurrence of P. turneri. This form occurs fairly consistently in the P. ludbrookiae and X. asperatus Zones and that assignment is regected.

Norton & Denison proposed a hiatus between 2254-2256m on the apparent absence of the C. denticulata and M. tetracantha Zones.They apparently reject Ingram's identification of the M. tetracantha Zone between 2256-2272m.

The top of the M. tetracantha Zone is based on the first downhole occurrence of M. tetracantha. The apparent absence of D. cerviculum suggests that the lower part of the zone may not have been sampled.

Although they recorded neither D. davidii or M. tetracantha in the interval above 2274m Norton & Denison assigned the interval 2256-2272m to the D. davidii Zone. Their interpretation is rejected.

Ingram recorded Ascodinium cinctum at 2388m in an association dominated by elements of the D. davidii Assemblage. It is possible that this form could be Ascodinium sp. 269, a form characteristic of the D. davidii Zone.

In the event that the specimen is confirmed as Ascodinium cinctumthe sample is unlikely to be younger than lower Aptian (basalO. operculata Zone - 2cii). There is some support for this interpretation of Norton & Denison's data. They recorded the first downhole occurrence of Aprolobocysta sp. and Cassiculosphaeridia magna at about 2316m.

Reviewed by Robin Helby - July 1993.

1 Ingram, Barry (1984): Palynology Report AP41 on Iagifu No. 1s Corehole. Prepared for Nuigini Gulf Oil Pty Ltd (through Paltech P/L.)
2 Norton, N.J. (1986): Palynological Zonation of the Iagifu-1S, Papua New Guinea. Chevron Overseas Petroleum report.
3 Norton, N.J. & Denison, C.N. (1987): Palynological zonation of the Iagifu-1S 1195.74 metres to 2386m Papua New Guinea. Chevron Overseas Petroleum report.
4 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.

Iagifu 2X -6.434721 143.211666 Papuan Basin
PEDIN/File numbers: W9850005 OS 241

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
1331.98	M3200	H	92.00	D.multispinum 1AII	PALAEO	P	B3	O	1
2026.92	M3200	L	97.50	D.multispinum 1AII	PALAEO	P	B2	O	1
2072.64	M3200	L	97.50	D.multispinum 1AII	PALAEO	A	B4	O	1
2110.74	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	B1	O	1
2194.56	M3210	L	104.00	P.ludbrookiae 1B	MAX AGE	P	B2	O	1
2209.80	M3211	L	106.50	C.denticulata Upper	MAX AGE	P	B2	O	1
2255.52	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	B1	O	1
2362.20	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	B1	O	1
2377.44	M3260	L	130.00	M.testudinaria 2DIV	MAX AGE	P	B4	O	1
2421.64	M3280	H	135.00	S.areolata 3C	MIN AGE	P	B5	O	1
2503.63	M3305	L	139.50	lower B.reticulatum 4AIV	MAX AGE	P	B5	O	1
2537.46	M3310	H	139.50	D.lobispinosum 4BI	MIN AGE	P	B4	O	1
2583.18	M3320	L	143.00	K.wisemaniae 4BIII	MAX AGE	P	B5	O	1
2590.80	M3327	H	143.00	P.iehiense 4CI/II	MIN AGE	P	B1	O	1
2682.24	M3327	L	144.50	P.iehiense 4CI/II	MAX AGE	P	B1	O	1

This report is based on re-interpretation of range data, derived from palynological examination of 48 sidewall core samples, presented by Ingram (1986). No spore-pollen data were presented, although Ingram alluded to the presence of Cicatricosisporite in his discussion.

Ingram interpreted the data in terms of a manuscript version of Helby, Morgan & Partridge (1987). There are only a few, minor modifications suggested in this review.

Differentiation of Diconodinium species is not clear and to some extentthis obscures interpretation of the Cenomanian samples. It is possible that specimens identified as D. pelliferum might be D. multispinum (ss)

The tentative identification of Psuedoceratium turneri at 6800' may indicate that the late Albian has been intersected, although the possibility that the specimen is reworked should be considered.

The occurrence of Litosphaeridium siphoniphorum is interpreted asindicating that the sample at 7200' is no older than the P. ludbrookiaeZone (1b-). HMP (1987) indicate that the first occurrence of L. siphoniphorum occurs above the base of the P. ludbrookiae Zone. Ingram regarded this association as older than the P. ludbrookiae Zone.

The early Albian lower C. denticulata and M. tetracantha Zones (2a/2bii) zones were not recorded, although there is a sample gap of 150' between 7250-7400'.

The Aptian to upper Neocomian sequence is not well characterized.The occurrence of D. cerviculum at 7800' indicates that the sample is no older than the M. testudinaria Zone (2div).

The tentative identification of E. torynum at 7945' may indicate that the sample is older than S. areolata Zone, although reworking into the base of the S. areolata Zone is not uncommon.

The Berriasian to basal Valanginian assemblages (8190-8475') are not well characterized. The occurrence of O. amphiacanthum, B. apicoramosa and frequent P. mirabila are accepted as no older than the D. lobispinosum Zone.

Davey (1987) indicated that the top occurrences of B. apicoramosa(= B. ramosa) and O. amphiacanthum occur in his P. apiculatum Zone (which he considers straddles the 4aiv/bi boundary). While prominent P. mirabila characterizes his P. mirabila Zone (which he regards as equivalent to 4bii/iii).

Reviewed by Robin Helby - August 1993

1 Ingram, Barry (1984): Palynology Report AP41 on Iagifu-2X, Report incorporated in Paltech Report 1986/03 prepared by A.P. Brennan.
2 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
3 Davey,R.J., (1988): Palynological zonation of the Lower Cretaceous,Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.

Iamara 1 -8.401111 142.93861 Papuan Basin
PEDIN/File numbers: W9620001 62/1103

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
915.30	M3240 L	119.50	O.operculata 2C	MAX AGE	P	A1	O	1
941.00	M3245 H	118.50	A.cinctum 2DI	MIN AGE	P	D4	O	3
951.00	M3252 L	126.00	M.australis 2Dii/iii	MAX AGE	P	D4	O	3
960.00	M3260 H	126.00	M.testudinaria 2DIV	MIN AGE	P	D2	O	3
991.00	M3265 H	130.00	P.burgerii 3A	MIN AGE	P	D2	O	3
1030.20	M3265 L	132.00	P.burgerii 3A	MAX AGE	P	A3	O	1
1067.40	M3315 H	140.50	C.delicata 4BII	MIN AGE	P	A3	O	2
1091.00	M3327 H	143.00	P.iehiense 4CI/II	MIN AGE	P	D3	O	2
1149.00	M4206 L	144.50	Leiosphaerid 4Ciii (Helby)	MAX AGE	P	D3	O	2
1179.60	M4105 H	144.50	upper D.jurassicum 5A	MIN AGE	P	A1	O	2
1242.00	M4120 H	147.00	O.montgomeryi 5CI-III	MIN AGE	P	D2	O	2
1280.50	M4135 H	148.50	C.perforans 5D	MIN AGE	P	A2	O	2
1335.00	M4145 H	154.50	W.clathrata 6B	MIN AGE	P	D2	O	2
1340.00	M4150 H	158.00	W.spectabilis 6CI/II	MIN AGE	P	D2	O	2
1415.00	M4165 H	162.00	R.aemula 7AI	MIN AGE	P	D5	O	3
1463.00	M4165 H	162.00	R.aemula 7AI	MIN AGE	A	A5	O	1

This report is based re-interpretation of assemblage data provided by Helby & Partridge (1977), Varney (1990) and Welsh (1989).

The data are interpreted in terms of the HMP(1987) zonal scheme,although they are also expressed in terms of the Simon-Davey scheme and BP intrepretations from the Varney and Welsh reports and reproduced on the sample summary.

Data on the Iamara range chart, accompanying the Welsh report appear to have been collected by Roger Morgan.

Welsh assigned the samples between 919-951m to the M. australis Zone (2dii P7). However, the occurrence of O. operculata and M. macwhaei in the core sample at 915.3m confidently support an O. operculata Zone (2c)assignment.

The occurrence of A. cinctum in Welsh's samples at 941-951m suggests that they are probably no younger than the A. cinctum Zone (2di+).

The Muderongia testudinaria Zone (2div) and Phoberocysta burgeri Zone (3a) are not easily distinguished. However, the picks for top and bottom of the interval are relatively high confidence assignments.

Helby's range chart (in Helby & Partridge) did not indicate the presence of P. mirabila in the core sample at 1067.4m. However, the species was listed in the sample discussion.

Davey (1987) and Welsh (1990) regard the first downhole occurrenceof P. mirabila as marking the top of the P. mirabila Zone which they equate with the top of the C. delicata Zone (4bii) of HMP.

The abundant occurrence of P. mirabila recorded by Varney at 1068.3msuggests that the sample corresponds to Davey's EK13B.

With the exception of the Nummus similis acme (5ai LJ5a), further subdivision of the D. jurassicum Zone was not possible

Although the Dingodinium swanense Zone was not located the occurrence of the eponymous species, together with Glossodinium dimorphum in the cuttings sample at 1350m, suggests that it is present at higher levels.

Welsh assigned the samples between 1340-1415m to the C. perforans Zone (5d/6a), possibly on the basis of the prominent occurrence of X. densispinosum, but ignoring the relatively diverse Wanaea suite.

Varney, on the basis of additional sampling, assigned the samples in this interval to the BP W. clathrata and W. digitata Zone (6b/c). Varney's interpretation is accepted. However, I recommend that the samples from core #13 should be re-processed to re-assess the base of this interval.

Varney and Welsh recorded Wuria capnosa in cuttings between 1440- 1674m, overlapping R. aemula (in the core sample at 1463.4m and cuttings samples down to 1500m). This considerably extends the reported range of W. capnosa.

Davey (1987) and Welsh (1990) equate the top of their C. sellwoodii Zone (MJ1 and P18, respectively) with the base of the HMP R. aemula Zone. However, the C. tenellum/sellwoodii plexus extends almost to the top of the R. aemula Zone on the North-west Shelf.

The ditch cuttings sample between 1475-1527m contain both R. aemula and Ctenidodinium spp. I recommend that samples from cores #14 and #15 should be re-processed, in an attempt to test this relationship.

Reviewed by Robin Helby, December 1993.

1 Helby, R.J. & Partridge, A.D., (1977): Palynological analysis of the Mesozoic sequence in Iamara-1, Papuan Basin. EPR 1977/3.
2 Varney, T.D. (1990): Palynological data from Aramia-1, Iramia-1 and Mutare-1, Papuan Basin, Papua New Guinea. BP Australia Report (12544).
3 Welsh, A. (1989): Palynological data from Barikewa-1, Iamara-1, Iehi-1, Komewu-2 and Morehead-1, Papuan Basin,Papua New Guinea. BP Australia Rpt (R10989).
4 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.
5 Davey, R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.
6 Welsh, A., (1990): Applied Mesozoic biostratigraphy in the Western Papuan Basin. in Carman, G.J. and S. (Eds), 1990,Petroleum Exploration in Papua New Guinea: Proceedings of the First PNG Petroleum Convention, Port Moresby, pp.369-80.

Iehi 1 -6.951722 143.868555 Papuan Basin
PEDIN/File numbers: W9600001 62/1058

'*' = non-active record

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
750.00	M3210 H	99.50	P.ludbrookiae 1B	PALAEO	P	D2	O	3
1078.10	M3210 L	104.00	P.ludbrookiae 1B	PALAEO	P	A3	O	1
1100.00	M3210 L	104.00	P.ludbrookiae 1B	PALAEO	A	D4	O	3
1127.00	M3235 H	113.00	D.davidii 2BIII	PALAEO	P	A3	O	2
1230.50	M3235 L	115.00	D.davidii 2BIII	PALAEO	P	A3	O	1
1253.00	M3235 L	115.00	D.davidii 2BIII	PALAEO	A	D4	O	3
1274.00	M3240 H	115.00	O.operculata 2C	MIN AGE	P	D4	O	3
1301.00	M3252 H	119.50	M.australis 2Dii/iii	MIN AGE	P	D4	O	3
1326.00	M3260 H	126.00	M.testudinaria 2DIV	MIN AGE	P	D4	O	3
1350.00	M3270 H	132.00	S.tabulata 3B	MIN AGE	P	D4	O	3
1399.00	M3280 H	135.00	S.areolata 3C	MIN AGE	P	D4	O	3
1407.90	M3280 L	137.00	S.areolata 3C	MAX AGE	P	A4	O	1
1408.50	M3290 H	137.00	E.torynum 4AI/II	MIN AGE	P	A3	O	2
1437.40	M3310 H	139.50	D.lobispinosum 4BI	MIN AGE	P	A3	O	2
1538.40	M3327 H	143.00	P.iehiense 4CI/II	PALAEO	P	A3	O	1
1599.30	M3327 L	144.50	P.iehiense 4CI/II	PALAEO	P	A3	O	1
1619.40	M4206 H	144.00	Leiosphaerid 4Ciii (Helby)	PALAEO	P	A4	O	1
1649.00	M4206 L	144.50	Leiosphaerid 4Ciii (Helby)	PALAEO	P	D4	O	3
1690.40	M4105 H	144.50	upper D.jurassicum 5A	PALAEO	P	A3	O	2
1701.00	M4105 L	145.50	upper D.jurassicum 5A	PALAEO	P	D2	O	3
1749.00	M4100 H	144.50	D.jurassicum 5A/B	MIN AGE	P	D4	O	3
1850.00	M4100 L	147.00	D.jurassicum 5A/B	MAX AGE	P	D4	O	3
1905.00	M4120 H	147.00	O.montgomeryi 5CI-III	PALAEO	P	D2	O	3
1950.00	M4120 L	148.50	O.montgomeryi 5CI-III	PALAEO	P	D2	O	3
1983.50	M4140 H	150.00	D.swanense 6A	PALAEO	P	A2	O	1
2060.80	M4140 L	154.50	D.swanense 6A	PALAEO	P	A4	O	2
2100.00	M4150 H	158.00	W.spectabilis 6CI/II	PALAEO	P	D4	O	3
2450.00	M4150 L	162.00	W.spectabilis 6CI/II	PALAEO	P	D4	O	3
2480.50	M4165 H	162.00	R.aemula 7AI	PALAEO	P	A5	O	1
2502.00	M4165 L	164.00	R.aemula 7AI	PALAEO	P	D4	O	3
2551.00	M4170 H	164.00	upper W.digitata 7AII	PALAEO	P	D4	O	3
2652.00	M4175 L	167.00	lower W.digitata 7BI	MAX AGE	P	D4	O	3
2744.40	M4100 H	144.50	D.jurassicum 5A/B	MIN AGE	P	A2	O	7
2811.50	M4100 L	147.00	D.jurassicum 5A/B	MAX AGE	P	A3	O	1
2926.10	M4120 H	147.00	O.montgomeryi 5CI-III	PALAEO	P	A3	O	1
3057.00	M4120 L	148.50	O.montgomeryi 5CI-III	PALAEO	P	D4	O	3
3060.50	M4135 H	148.50	C.perforans 5D	MIN AGE	P	A3	O	1

This interpretation is based on range data and discussion provided in three reports - Helby, & Partridge (1976), Ingram (1985) and Welsh (1989).

Helby & Partridge (1976) provided range data and discussion concerning 30 samples from 29 conventional cores.

Ingram (1985) indicated that 24 core samples had been examined. However, range data from only 13 samples were provided.

Welsh (1989) provided range data from 54 ditch cuttings samples.I suspect that these data were actually collected by Roger Morgan.

The data are interpreted in terms of the Helby, Morgan & Partridge (1987) zonation.

Assignment to the P. ludbrookiae Zone is based on the occurrence of the relatively diverse Diconodinium suite together with D. tuberculatum and P. ludbrookiae.

There is no direct evidence of the C. denticulata Zone(1c/2a) or the underlying Muderongia tetracantha zone (2bii). However, there is a sample gap (with a ditch cuttings sample at 1100m) between core samples at 1078.1-1127m.

Assemblages in the interval of the Odontochitina operculata Zone to the Systematophora areolata Zone (2c-3c) are not well characterized and are represented almost entirely by cuttings samples.

The samples between 1436.8-1503m are considered no younger than Dissiliodinium lobispinosum Zone on the basis of the occurrence of Batioladinium apicoramosa (= Broomea ramosa of Davey, 1987) and Papuadinium apiculatum.

Davey (1987) and Morgan (1989) consider that the first downhole occurrence of these taxa is equivalent to the Dissimulisdinium lobispinosum Zone (4bi).

Helby & Partridge reported the occurrence of the P. iehiense Zone(=P. pelliferum Zone) but did not show occurrences of the eponymous species on their range charts. The species was recorded on ticksheets at 1538.4m and 1599.3m.

The presence of Batioladinium reticulatum in cuttings at 1554m is recorded in data presented by Welsh (1989).

Oxfordian to Kimmeridgian reworking is particularly prominent between 1749-1850m.

The Wanaea clathrata Zone was not defined, although data presented by Welsh suggest that it is present over an extended cuttings interval. However, the first downhole occurrence of W. cf. spectabilis occurs above the first downhole occurrence of W. clathrata.

Wuroia capnosa, which Helby, Morgan & Partridge (1987) considered was confined to the upper Wanaea digitata Zone (7bia), was recorded at 2551m.

Voodooia sp. 707 (=Broomea tabulata of Ingram) ranges from lower Rigaudella aemula Zone to upper W. digiata Zone.

Ingram (1985) recorded a very limited assemblage including R. aemula and Adnatosphaeridium profusium at 2744.4m,indicating that the sample was no older than the R. aemula Zone (7a). This sample appears to be younger than the overlying samples (2551-2652).

Data presented by Welsh (1989) show the consistent occurrence ofNummus similis at and below 2700m. Possilby on this basis the samplewas assigned to the D. jurassicum Zone (Welsh 1989 fig. 3). Nummus similis is not uncommon in the basal Oxfordian and Callovian of the Papuan Basin.The assignment of the cuttings samples between 2700-2801m is equivocal.

There is a repeated Tithonian sequence from 2744.4-3060.5m.

Helby re-examined the core sample at 2744.4m during an AGSO visit in Nov. 1993, reporting a high confidence lower D. jurassicum assemblage.

Reviewed by Robin Helby - August 1993.

1 Helby, R.J. & Partridge, A.D. (1976): Palynological analysis of the Mesozoic core samples from Iehi, Papuan Basin. Esso Pal. Rpt 1976/13
2 Ingram, B. (1985): Revision of three Papuan Basin wells: Kanau-1, Orie-1 and Iehi. Report prepared for Paltech Pty Ltd.
3 Welsh, A. (1989): Palynological data from Barikewa-1, Iehi, Komewu-2 and Morehead-1, Papuan Basin, Papua New Guinea. BP Australia Rpt R10989.
4 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
5 Morgan, R. (1989): Overview and hybrid palynology zonation for the Late Mesozoic of Papua New Guinea. (unpubl. multiclient report).
6 Davey, R.J. (1987): Palynological zonation of the Early Cretaceous and Late Jurassic of Papua New Guinea. Mem. geol. Surv. Papua New Guinea 17,1-77.
7 Helby, R., (1993): Rapid review of Iehi core sample at 2744.4m - hand written species list.

Iorogabaiu 1 -6.545608 143.190731 Papuan Basin
PEDIN/File numbers: W9890009

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record					
1219.20	M3200	H	92.00	D.multispinum 1AII	PALAEO	P	B2	O	1
1872.69	M3200	L	97.50	D.multispinum 1AII	PALAEO	A	B2	O	1
1920.24	M3200	L	97.50	D.multispinum 1AII	PALAEO	P	D4	O	1
1930.91	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	B3	O	1
2010.16	M3210	L	104.00	P.ludbrookiae 1B	MAX AGE	P	B4	O	1
2017.78	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	B2	O	1
2109.22	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	B2	O	1
2115.31	M3240	H	115.00	O.operculata 2C	PALAEO	P	B3	O	1
2151.89	M3240	L	119.50	O.operculata 2C	PALAEO	P	B5	O	1
2164.08	M3252	H	119.50	M.australis 2Dii/iii	PALAEO	P	B3	O	1
2200.66	M3252	L	126.00	M.australis 2Dii/iii	PALAEO	P	B3	O	1
2212.85	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	P	D3	O	1
2221.99	M3260	L	130.00	M.testudinaria 2DIV	MAX AGE	P	D4	O	1
2249.42	M3290	H	137.00	E.torynum 4AI/II	MIN AGE	P	D3	O	1
2304.29	M3310	L	140.50	D.lobispinosum 4BI	MAX AGE	P	D3	O	1
2319.53	M3315	H	140.50	C.delicata 4BII	MIN AGE	P	D4	O	1
2354.58	M3315	L	142.00	C.delicata 4BII	MAX AGE	P	B3	O	1
2371.34	M3327	H	143.00	P.iehiense 4CI/II	PALAEO	P	D3	O	1
2426.21	M3327	L	144.50	P.iehiense 4CI/II	PALAEO	P	B3	O	1
2441.45	M4206	H	144.00	Leiosphaerid 4Ciii (Helby)	MIN AGE	P	D3	O	1
2456.08	M4206	L	144.50	Leiosphaerid 4Ciii (Helby)	MAX AGE	P	D5	O	1
2474.98	M4100	H	144.50	D.jurassicum 5A/B	PALAEO	P	D2	O	1
2674.92	M4100	L	147.00	D.jurassicum 5A/B	PALAEO	P	B3	O	1
2691.38	M4120	H	147.00	O.montgomeryi 5CI-III	PALAEO	P	D3	O	1
2743.20	M4120	L	148.50	O.montgomeryi 5CI-III	PALAEO	P	B3	O	1
2804.16	M4120	L	148.50	O.montgomeryi 5CI-III	PALAEO	A	D3	O	1
2828.54	M4135	L	150.00	C.perforans 5D	MAX AGE	P	D4	O	1
2849.27	M4145	H	154.50	W.clathrata 6B	PALAEO	P	B3	O	1
2901.70	M4145	L	158.00	W.clathrata 6B	PALAEO	A	D4	O	1
2935.22	M4145	L	158.00	W.clathrata 6B	PALAEO	P	D4	O	1
2951.99	M4150	H	158.00	W.spectabilis 6CI/II	PALAEO	P	D4	O	1
3023.62	M4150	L	162.00	W.spectabilis 6CI/II	PALAEO	P	D4	O	1
3053.49	M4145	H	154.50	W.clathrata 6B	PALAEO	P	D4	O	1
3090.67	M4145	L	158.00	W.clathrata 6B	PALAEO	P	D4	O	1
3108.96	M4150	H	158.00	W.spectabilis 6CI/II	PALAEO	P	B4	O	1
3246.12	M4150	L	162.00	W.spectabilis 6CI/II	PALAEO	P	B4	O	1
3352.80	M4150	L	162.00	W.spectabilis 6CI/II	PALAEO	A	D4	O	1

This interpretation is based on analysis of range chart data presented in the Davey et al. report (1990)

The range charts recorded distribution of taxa in 55 sidewall core samples and 66 ditch cuttings samples

There is a repeated section encompassing most of the W. clathrata Zone and the upper W. spectabilis Zone.

Davey et al. (1990) located a reverse fault at 10018m.The cuttings sample at 10018m is interpreted here as part of the repeated section.

The zonal scheme used in this interpretation is adapted from Helby, Morgan & Partridge (1987).

Reviewed by Robin Helby March 23, 1993

1 Davey, R.J., Bates, C.D., Flett, S.D., Ong, G.B. & Wall, D., Iorogabaiu-1X Well, Block PPL 100, Papua New GuineaChevron Niugini Pty Ltd - Biostratigraphy and environments. Report No. 1723, February 1990.
2 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.

Juha 1X -5.903333 142.435833 Papuan Basin
PEDIN/File numbers: W9830002

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
1664.21	M3342	H	89.00	I.acuinatum 1A1A	MIN AGE	P	B3	O	4
2026.83	M3342	L	91.00	I.acuinatum 1A1A	MAX AGE	P	B2	O	4
2040.64	M3341	H	91.00	P.infusoroides 1A1B(McMinn)	MIN AGE	P	B2	O	4
2468.88	M3341	L	92.00	P.infusoroides 1A1B(McMinn)	MAX AGE	P	B2	O	4
2680.44	M3200	H	92.00	D.multispinum 1AII	PALAEO	P	B5	O	2
2712.69	M3200	L	97.50	D.multispinum 1AII	PALAEO	P	B3	O	2
2721.86	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	B4	O	1
2804.16	M3211	L	106.50	C.denticulata Upper	MAX AGE	P	B4	O	1
2859.97	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	B2	O	1
2993.11	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	B2	O	1
3003.83	M3240	H	115.00	O.operculata 2C	MIN AGE	P	B4	O	1
3016.33	M3260	L	130.00	M.testudinaria 2DIV	MAX AGE	P	B4	O	1
3075.43	M3265	H	130.00	P.burgerii 3A	PALAEO	P	B5	O	1
3096.46	M3265	L	132.00	P.burgerii 3A	PALAEO	P	B3	O	1
3184.25	M3290	H	137.00	E.torynum 4AI/II	MIN AGE	P	B4	O	1
3388.77	M3320	L	143.00	K.wisemaniae 4BIII	MAX AGE	P	B4	O	1
3407.05	M3327	H	143.00	P.iehiense 4CI/II	MIN AGE	P	B4	O	1
3426.26	M4206	L	144.50	Leiosphaerid 4Ciii (Helby)	MAX AGE	P	B4	O	1
3472.89	M4105	H	144.50	upper D.jurassicum 5A	PALAEO	P	B2	O	1
3543.30	M4105	L	145.50	upper D.jurassicum 5A	PALAEO	P	B2	O	1

This report derives from interpretation of distribution data presented in feports by Ingram & Wiseman (1983)and Ingram (1984). The data are presented as presence or absence, and only SWC sample data are recorded.

The zonal scheme used in this interpretation is adapted from Helby, Morgan & Partridge (1987) although the I. acuminatum Zone and P. infusorioides Zone conceptsof McMinn (1988) are also used.

Foraminifera associated with the P. infusorioides Zone suggest that the zone could be as old as early Cenomanian (Deighton, 1983).

Assemblages from the major part of the Toro Sandstone not well defined.

Ingram & Wiseman reported that assemblages below 10600ft were poor and were overmature below 12000ft.

Additional microscope work, possibly including some reprocessing and additional samples, is recommended to better define the palynomorph sequence below 10,000ft.

Reviewed by Robin Helby March 23, 1993

1 Ingram, B.S. & Wiseman, J.F. (1983): Nuigini Gulf's Juha No. 1 well. Palynology Report WP12/83. See also Ingram (1984) - Reference 2
2 Ingram, B.S. (1984): Further palynological notes from the Mid Cretaceous of Juha No. 1 well. Palynology Report AP59
3 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
4 McMinn, A. (1988): An outline of a Late Cretaceous dinoflagellate zonation of northwestern Australia. Alcheringa 12,137-156. See also Ingram & Wiseman (1983) and Ingram (1984) - Refs 1 and 2
5 Deighton, I., (1983): Biostratigraphic and Palaeoenvironmental analysis of Juha-1x, Permit PPL 18, Papua New Guinea. Paltech Report 1983/4.

Kanau 1 -6.912614 143.190542 Papuan Basin
PEDIN/File numbers: W9750002

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
584.00	M3195 H	89.00	P.infusorioides 1AI	MIN AGE	P	D5	O	2
584.00	M3200 H	92.00	D.multispinum 1AII	PALAEO	A	D5	O	2
615.00	M3200 H	92.00	D.multispinum 1AII	PALAEO	P	E3	O	2
765.00	M3200 L	97.50	D.multispinum 1AII	PALAEO	P	B3	O	2
855.00	M3205 H	97.50	X.asperatus 1AIII	MIN AGE	P	B3	O	2
946.00	M3215 L	109.00	C.denticulata 1C/2A	MAX AGE	P	B5	O	2
1049.00	M3225 H	109.00	M.tetracantha 2BI/II	MIN AGE	P	B3	O	2
1093.00	M3235 H	113.00	D.davidii 2BIII	PALAEO	P	B3	O	2
1125.00	M3235 L	115.00	D.davidii 2BIII	PALAEO	P	B3	O	2
1149.00	M3240 H	115.00	O.operculata 2C	MIN AGE	P	B5	O	2
1249.00	M3240 L	119.50	O.operculata 2C	MAX AGE	P	B3	O	2
1341.00	M3310 H	139.50	D.lobispinosum 4BI	MIN AGE	P	B3	O	2
1495.00	M3327 H	143.00	P.iehiense 4CI/II	MIN AGE	P	B3	O	2
1523.00	M4100 H	144.50	D.jurassicum 5A/B	PALAEO	P	B3	O	2
1700.00	M4100 L	147.00	D.jurassicum 5A/B	PALAEO	P	B3	O	2
1760.00	M4120 H	147.00	O.montgomeryi 5CI-III	MIN AGE	P	D3	O	2
1860.00	M4140 H	150.00	D.swanense 6A	MIN AGE	P	D3	O	2
1880.00	M4145 H	154.50	W.clathrata 6B	MIN AGE	P	D3	O	2
2805.00	S4101 L	210.00	C.dampieri superzone	MAX AGE	P	B3	O	2
3351.00	S5110 H	210.00	A.reducta TR1	MIN AGE	P	B3	O	2

This interpretation is based on discussion provided in Ingram (1976) andon limited distribution data and a zone summary provided by Ingram (1985).

Ingram (1976) reported on a study of 89 samples from Kanau-1. However, no data on individual samples (exception of SWC at 1377m) were provided & discussion was based on groups of samples which encompassed a number of zones.

Ingram (1985) provided very limited species distribution data from 28 samples, including one conventional core, 21 SWC's and 5 ditch cuttings and 1 junk basket sample (noted as a ditch cutting sample).

Ingram (1985) did not mention ditch cuttings samples additional to those from the original Bocal report. However, data from ditch cuttings samples at 1760m, 1780m, 1860m and 1880m were recorded (tables 4 and 5). Those samples were not listed in the Bocal report (Ingram, 1976).

Interpretation of the sample at 584m is equivocal. The apparent absence of Pseudoceratium ludbrookiae suggests that the assemblage is younger than the D. multispinum Zone, while the apparent absence of the eponymous species warrants caution in assigning it to the P.infusorioides Zone.

Assemblages from the mid to late Albian are not well characterized.

Ingram (1985) recorded Ovodinium verrucosum at 1093m. O. verrucosum does not occur in Australasia, although it has been recorded as a component of some mud additives used in the 1970's. It is entirely possible that the specimens are acturally Ascodinium sp. 269 (which is characteristic of the D.davidii Zone-2biii).

Mid Albian to Valanginian assemblages are not well characterized. Odontochitinaoperculata/costata occur 1210m and 1249m suggesting that the samples are no older than the O. operculata Zone, although Ingram (1985), tentatively assigns the sample at 1249m to the m. australis Zone (2dii/iii).

The sample at 1341m is tentatively regarded as no younger than the D. lobispinosum Zone (4bi) on the basis of the occurrence of Bat. apicoramosa (Broomea ramosa in Ingram, 1976 and Broomea ramosa/simplex in Ingram, 1985).

Davey (1988) considered that the highest occurrence B. ramosa (B. apicoramosa) in the Papuan Basin was located in his P. apiculatum Zone.He equated this level with the D. lobispinosum Zone.

Ingram (1985) did not record Nummus similis in the samples between 1523m and 1700m. However, that form was listed in samples between 1523m and 1576m by Ingram (1976), suggesting a correlation with the N. similis Zone of Davey.

Ingram (1985 - table 5) recorded T. missilis at 1780m. Tubotub. missilis is confined to the mid D. swanense Zone (6aii). On Table 4 Ingram tentatively assigns the sample at 1780m to the C. perforans Zone. He also tentatively records the D. swanense Zone at 1860m. The basis for those assignments is not clear,as the samples concerned have not been listed previously.

Ingram (1985 table 5) recorded frequent C. perforans at 1780m, assigning the sample tentatively to the C. perforans Zone. These occurrences might indicate that the zone is present at slightly higher levels.

The extent of the W. clathrata Zone is uncertain. The top of the zone is locatedat the ditch cuttings sample at 1880m. Ingram recorded specimens in ditch cuttings at 2345m, but supporting taxa were not listed. He recorded abundant spores and pollen below 2200m suggesting downhole shallowing.

The samples between 2200-2805m contained abundant C. dampieri suggesting that they were no older than the C.dampieri Zone (essentially no older than the C. halosa Zone - 7cii).

The prominence of Falcisporites australis in the SWC sample at 3351m indicates that the sample is no younger than the A. reducta Zone, although it could be substantially older - but on the basis of the consistent occurrence ofStriatella (D. problematicus) is unlikely to be older than upper Early Triassic.

Reviewed by Robin Helby - October 1993.

1 Ingram, B.S. (1976). Palynology report Kanau No. 1 well. Bocal report prepared for Papua New Guinea Petroleum Pty Ltd.
2 Ingram, B. (1985): Revision of three Papuan Basin wells: Kanau-1, Orie-1 and Iehi-1. Report prepared for Paltech Pty Ltd.
3 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
4 Davey,R.J., (1988): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77

Kiunga 1 -6.015555 141.309721 Papuan Basin
PEDIN/File numbers: W9800001 80/558

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
2101.00	M3195 H	89.00	P.infusorioides 1AI	PALAEO	P	B3	O	1
2623.00	M3195 L	92.00	P.infusorioides 1AI	PALAEO	P	B4	O	1
2627.00	M3210 L	104.00	P.ludbrookiae 1B	MAX AGE	P	B4	O	1
2627.00	M3195 L	92.00	P.infusorioides 1AI	PALAEO	A	B4	O	1
2855.00	M3235 H	113.00	D.davidii 2BIII	MIN AGE	P	B3	O	1
2873.00	M3245 H	118.50	A.cinctum 2DI	MIN AGE	P	B3	O	1
2890.00	M3260 H	126.00	M.testudinaria 2DIV	PALAEO	P	B3	O	1
2908.00	M3260 L	130.00	M.testudinaria 2DIV	PALAEO	A	B3	O	1
2910.50	M3260 L	130.00	M.testudinaria 2DIV	PALAEO	P	B5	O	1
2933.00	M3290 H	137.00	E.torynum 4AI/II	MIN AGE	P	B5	O	1
2945.00	M3310 H	139.50	D.lobispinosum 4BI	MIN AGE	P	B4	O	1
2957.00	M4165 L	164.00	R.aemula 7AI	MAX AGE	P	B7	O	1
3026.00	S5150 L	247.00	P.samoilovichii TR6A	MAX AGE	P	B7	O	1

This review is based on data and discussion presented by Ingram (1980).Ingram examined 23 sidewall core samples and 1 junk basket sample. Range charts were not provided and partial lists were provided for only ten samples. There was some discussion of additional taxa.

Ingram interpreted his data in terms of a very early manuscript of HMP which was essentially similar to the version outlined in Burns & Bein (1980).The samples are re-interpreted here in terms of HMP (1987).

Assignments to the P. infusorioides Zone are equivocal. The nominate species was not listed at 2623m or at 2627m. However, the apparent absence of Pseudoceratium ludbrookiae is considered more significant, tentatively ruling out assignment to the underlying D.multispinum Zone.

Ingram assigned the sample at 2627m to the D. multispinum Zone (= the D. dispersum Zone), recording the nominate species, but apparently lacking P. ludbrookiae, which might warrant assignment to the P. infusorioides Zone.

However, he also recorded D. glabrum and Litosphaeridium cf. arundum, which are more characteristic of late Albian. The age of the sample is not clear falling in the interval of the P. infusorioides to P. ludbrookiae Zones.

The sample at 2855m is assigned confidently to the Diconodinium davidii Zone on the basis of the mutual occurrence of the eponymous species, Dingodinium cerviculum, Muderongia tetracantha and Spinidinium boydii.

The sample at 2873m is assigned confidently to the Ascodinium cintum Zone on the basis of the abundant occurrence of the nominate species.

Assignments of samples at 2891m and 2908m to the Muderongia testudinaria Zone are tentative, based on the possible occurrence of Dingodinium cerviculum, implied by Ingram's selection of the D. cerviculum Zone.

If D. cerviculum is not present in the sample at 2908m it would default to the Phoberocysta burgeri Zone (3a). No listing was provided for sample at 2910.5m, Ingram stated it was similar, but richer than the overlying sample.

The sample at 2933m is considered no younger than the E. torynum Zone,on the basis of the occurrence of the eponymous species, together with Peridictyocysta mirabila. Davey (1988) indicated that the highest occurrence of this latter species occurred at the top of his P.mirabila Zone (which he equates with the top of the C. denticulata Zone)

Interp. of the species listed at 2945m is difficult.Ingram lists a form as Broomea ramosa .I tentatively interpret this Batioladinium apicoramosa (B. radiculatum),on the basis it occurs with Fromea cylindrica & Cyclonephelium? densebarbatum,and by implication the sample would be no older than the Pseudoceratium iehiense Zone (4c-). Data from Davey (1988) and Morgan (1989) indicate that the first downhole occurrence of B. apicoramosa in Papua is in the D. lobispinosum Zone.

If the specimen is Broomea ramosa, the sample could be as old as Oxfordian, although the occurrence of F.cylindrica and C. densebarbatum suggest the sample is probably no older than Tithonian (no older than C. perforans Zone).

Composition of the samples at 2946m and 2954.5m is reported to be similar to the sample at 2945m. On this basis the samples are considered no older than the C. perforans Zone. Reworking, discussed by Ingram, is not uncommon in the lower Dingodinium jurassicum Zone.

The occurrence of Rigaudella aemula at 2957m indicates that the sample is no older than late Callovian (=R. aemula Zone, 7a-).

Ingram reported Aratrisporites in the cuttings sample at 2963m, interpreting this occurrence as indicative of Triassic. Aratrisporites occurs consistently through Jurassic and Early Cretaceous, at least into the Valanginian.

Reviewed by Robin Helby - September 1993.

1 Ingram, B. (1980): Palynological Report on Nuigini-Gulf's Kiunga-1X well, prepared for Paltech Pty Ltd (July, 1980).
2 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
3 Morgan, R. (1989): Overview and hybrid palynology zonation for the Late Mesozoic of Papua New Guinea. (unpubl. multiclient report).
4 Davey,R.J., (1988): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77

Komewu 1 -7.301388 143.042894 Papuan Basin
PEDIN/File numbers: W9570003

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
1603.55	M4145 H	154.50	W.clathrata 6B	PALAEO	P	A3	O	1
1635.25	M4145 L	158.00	W.clathrata 6B	PALAEO	P	A3	O	1
1671.22	M4185 H	171.50	upper C.halosa 7CI	PALAEO	P	A5	O	1
1732.48	M4185 L	172.50	upper C.halosa 7CI	PALAEO	P	A5	O	1

This re-interpretation is based on range data and discussion provided in theHelby & Partridge (1977) report. That report provided data from examination of seven conventional core samples.

The Helby & Partridge data were interpreted in terms of a very early version of the Helby zonation. They have been updated to the Helby, Morgan & Partridge (1987) zonation in this review.

Microplankton suites were restricted although the assignments are supported by the spore pollen data.

Reviewed by Robin Helby - September 1993.

1 Helby, R.J. & Partridge, A.D. (1977): Palynological analysis of the Mesozoic sequence in Komewu-1 and Komewu-2, Papuan Basin. Esso Aust.Ltd Palaeontological Report 1977/4.
2 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.

Komewu 2 -7.285833 143.069722 Papuan Basin
PEDIN/File numbers: W9570004

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
1543.30	M3205 H	97.50	X.asperatus 1AIII	MIN AGE	P	A5	O	1
1614.20	M3210 L	104.00	P.ludbrookiae 1B	MAX AGE	P	A3	O	1
1725.00	M3225 H	109.00	M.tetracantha 2BI/II	PALAEO	P	D2	O	2
1745.00	M3225 L	113.00	M.tetracantha 2BI/II	PALAEO	P	D2	O	2
1763.90	M3235 H	113.00	D.davidii 2BIII	PALAEO	P	A2	O	1
1766.00	M3235 L	115.00	D.davidii 2BIII	PALAEO	P	D2	O	2
1785.00	M3240 H	115.00	O.operculata 2C	MIN AGE	P	D2	O	2
1806.00	M3252 H	119.50	M.australis 2Dii/iii	MIN AGE	P	D4	O	2
1846.00	M3265 L	132.00	P.burgerii 3A	MAX AGE	P	D5	O	2
1905.00	M3270 H	132.00	S.tabulata 3B	MIN AGE	A	D7	O	2
1916.90	M3270 H	132.00	S.tabulata 3B	MIN AGE	P	A2	O	1
1984.00	M3305 H	139.00	lower B.reticulatum 4AIV	MIN AGE	P	D4	O	2
2081.80	M3327 L	144.50	P.iehiense 4CI/II	MAX AGE	P	A1	O	1
2234.80	M4110 H	145.50	lower D.jurassicum 5B	MIN AGE	P	A2	O	1
2336.30	M4145 H	154.50	W.clathrata 6B	PALAEO	P	A1	O	1
2338.10	M4145 L	158.00	W.clathrata 6B	PALAEO	P	A1	O	1
2536.60	S4125 L	173.00	C.cooksoniae	MAX AGE	P	A3	O	1
2862.40	S4135 H	173.00	D.complex	MIN AGE	P	A5	O	1

This re-interpretation is based on range data and discussion provided in HelbyHelby & Partridge (1977) and Welsh (1989).

Helby & Partridge provided range data and discussion from 13 samples from 11 conventional cores while Welsh provided range data concerning 20 ditch cuttings samples. Although it is not stated in the report I suggest that the data presented by Welsh were probably compiled by Roger Morgan

The Helby & Partridge data were interpreted in terms of a very early version of the Helby zonation. They have been updated to the Helby, Morgan & Partridge zonation in this review. Welsh's interpretations are expressed interms of a BP scheme which more closely resembles Davey(1988) than HMP.

The sample at 1543.3m is not well characterized although the occurrence of Dicon. pusillum suggests that it is unlikely to be younger than the X. asperatus Zone.

Welsh assigned the sample at 1806m to the M. australis Zone. However, on the basis of the occurrence of Muderongia macwhaei it is considered no younger than the lower O. operculata Zone (2cii).

Samples in the interval of the Muderongia australis Zone to the Phoberocysta burgeri Zone are not well characterized. The samples from 1853m down are tentatively considered no younger than the P. burgeri Zone on the basis of the downhole occurrence of Systematophora spp.

The occurrence of Ascodinium cintum (from 1905m) suggests that the A. cinctum Zone possibly occurs at higher levels in the well.

Davey (1988) indicates that the first downhole occurrence of Batioladiniumramosa (= B. apicoramosa) occurs with Papuadinium apiculatum at the top of his P. apiculatum Zone (which he equates - Fig. 5, with the lower part of the lower Batioladinium reticulatum Zone of HMP).

The sample at 7332ft is considered no older than the lower D. jurassicum Zone on the basis of the occurrence of E. torynum and P. mirabila and the apparent absence of Omatia montgomeryi andHerendeenia pisciformis. Reworked forms from the Kimmeridgian and Ofordian are relatively common.

Microplankton are rare or absent from samples at and below 8322ft. The samples are aged on the basis of the spore-pollen content.

Reviewed by Robin Helby - September 1993.

1 Helby, R.J. & Partridge, A.D. (1977): Palynological analysis of the Mesozoic sequence in Komewu-1 and Komewu-2, Papuan Basin. Esso Aust.Ltd Palaeontological Report 1977/4.
2 Welsh, A. (1989): Palynological data from Barikewa-1, Iamara-1, Iehi-1, Komewu-2 and Morehead-1, Papuan Basin, Papua New Guinea. BP report-R10989.
3 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
4 Davey,R.J., (1988): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77

Kusa 1 -8.707922 144.0508 Papuan Basin
PEDIN/File numbers: W9770001 77/109

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
2414.02	M4206	H	144.00	Leiosphaerid 4Ciii (Helby)	MIN AGE	P	B2	O	1
2426.82	M4100	H	144.50	D.jurassicum 5A/B	PALAEO	P	B2	O	1
2612.14	M4100	L	147.00	D.jurassicum 5A/B	PALAEO	P	B2	O	1
2648.10	M4120	H	147.00	O.montgomeryi 5CI-III	PALAEO	P	B2	O	1
2659.08	M4120	L	148.50	O.montgomeryi 5CI-III	PALAEO	P	B2	O	1
2699.31	M4135	H	148.50	C.perforans 5D	PALAEO	P	B4	O	1
2737.71	M4135	H	148.50	C.perforans 5D	PALAEO	A	B4	O	1
2772.46	M4140	H	150.00	D.swanense 6A	PALAEO	P	B2	O	1
2789.53	M4140	L	154.50	D.swanense 6A	PALAEO	P	B2	O	1
2821.23	M4140	L	154.50	D.swanense 6A	PALAEO	A	B5	O	1
2826.11	M4150	H	158.00	W.spectabilis 6CI/II	PALAEO	P	B1	O	1
3274.77	M4150	L	162.00	W.spectabilis 6CI/II	PALAEO	P	B2	O	1
3297.33	M4165	H	162.00	R.aemula 7AI	PALAEO	P	B3	O	1
3325.98	M4165	L	164.00	R.aemula 7AI	PALAEO	P	B5	O	1
3366.21	M4171	H	164.00	W.digitata 7AII/BI	PALAEO	P	B4	O	1
3433.27	M4171	L	167.00	W.digitata 7AII/BI	PALAEO	P	A3	O	1

Helby & Partridge (1977) provided assemblage data and discussion concerning 10 Tertiary (7 ditch cuttings, 3 grab) samples and 60 Mesozoic (44 SWC's, 5 conventional core and 11 ditch cuttings) samples.

The Helby & Partridge data were interpreted in terms of an early version of the Helby, Morgan & Partridge (1987) zonation. The data are re-interpreted and up-dated in this review (with access to the original sample sheets).

I have attempted to translate the HMP zones to BP and Davey/Simonequivalent zones in the sample summary.

Partridge (in Helby & Partridge) interpreted the sequence above 2070'as Late Miocene to Quaternary. He considered that samples below this depth were dominated by caved material. Re-interpretation on the basis of Morley (1990) suggests that the sequence could be as old as early Miocene.

The rare occurrence of Nummus similis, apparent absence of Pseudoceratium spp. and the prominent occurrence of Sentusidinium spp.suggest that the samples between 7920-7930' are no younger than the Leiosphaerid (4ciii) Zone.

The distinctive reworking unit in the lower D. jurassicum Zone (5b LJ6/7 of of Davey, 1987) recognised by Helby & Partridge in wells to the north was not identified in Kusa-1

The Omatia montgomeryi Zone is adjusted. Unequivocal O. montgomeryiwere recorded at 8688' and 8724'. Equivocal O. montgomeryi wererecorded at 8856' and 8982'. These latter are possibly M.P. 84 (see Helby, Wilson & Grant-Mackie, 1988, figs 17P, Q).

The samples at 8688' and 8724' are re-assigned here to the C. perforans (5d) Zone (upper C. perforans of Davey, 1987).

The W. clathrata Zone (6b) was not recognized

The major part of the W. spectabilis Zone is tentatively considered no younger than subzone 6ciib on the basis of the occurrence of M.P. 620.

I recommend that slides (or preferably new slides) from samples below 8800', should be re-examined.

Reviewed by Robin Helby, December 1993.

1 Helby, R. J. & Partridge, A.D., (1977): Palynological analysis of Kusa-1, Papuan Basin. Appendix 5 Well Completion Report.
2 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn. Australas. Palaeontols 4, 1-94.
3 Davey,R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.
4 Welsh, A., (1990): Applied Mesozoic biostratigraphy in the Western Papuan Basin. in Carman, G.J. and S. (Eds), 1990,Petroleum Exploration in Papua New Guinea: Proceedings of theFirst PNG Petroleum Convention, Port Moresby, pp.369-80.
5 Morley, R. (1990). Tertiary statographic palynology in Asia;Current status and new directions. Keynote address to theGeological Society of Malaysia, Petroleum Geology Seminar, Kuala Lumpur, 1990.
6 Helby, R., Wilson, G.J. & Grant-Mackie, J.A. (1988): A preliminary biostratigraphic study of Middle to Late Jurassic dinoflagellate aseemblages from Kawhia, New Zealand. Mem.Assn Australas. Palaeontols 5, 125-166.

Lake Murray 2 -7.155139 141.338444 Papuan Basin
PEDIN/File numbers: W9730006 73/265

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
1310.60	M3200	H	92.00	D.multispinum 1AII	PALAEO	P	D5	O	1
1432.60	M3200	H	92.00	D.multispinum 1AII	PALAEO	A	D2	O	1
1554.50	M3200	L	97.50	D.multispinum 1AII	PALAEO	P	D2	O	1
1676.40	M3210	H	99.50	P.ludbrookiae 1B	MIN AGE	P	D2	O	1
1755.70	M3225	H	109.00	M.tetracantha 2BI/II	PALAEO	P	B1	O	1
1756.60	M3225	L	113.00	M.tetracantha 2BI/II	PALAEO	P	B1	O	1
1776.20	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	B1	O	1
1811.70	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	B1	O	1
1851.70	M3240	H	115.00	O.operculata 2C	PALAEO	P	B4	O	1
1886.70	M3240	L	119.50	O.operculata 2C	PALAEO	P	B2	O	1
1891.30	M3240	L	119.50	O.operculata 2C	PALAEO	A	B5	O	1

Helby & Partridge (1977) reported on 20 samples from LakeMurray-2 including 7 ditch cuttings and 13 sidewall cores.Distribution charts and zone discussions were provided.

The data were interpreted in terms of a very early version ofthe Helby, Morgan & Partridge zonation, and are updated in this report.

For this re-interpretation I have worked from the original sample sheets.

The sample at 1310.6m is tentatively assigned to the D. multispinum zone on the basis of the apparent absence of P. infusorioides.

The sample at 1676.4m is assigned to the P. ludbrookiae Zoneon the basis of the apparent absence of D. multispinum and the occurrence of D. pusillum and D. tuberculatum.

The early Albian to late Aptian sequence covering the M. tetracantha and D. davidii Zones are well defined.

The sample at 1851.7m is assigned to the O. operculata Zoneon the basis of the tentative occurrence of the nominate taxon and the apparent absence of D. davidii, Ascodinium sp. 269 andP. turneri.

The first downhole occurrence of Cassiculosphaeridia magnais at 1859.3m.

The lower part of the O. operculata Zone is characterized by the occurrence of M. macwhaei in samples at 1874.5m and1886.7m.

The status of the sample at 1891.3m is equivocal.

Reviewed by Robin Helby - October 1993.

1 Helby, R.J. & Partridge, A.D. (1977). Palynolgocial analysis of the Mesozoic sequence in the wells Lake Murray-1 and Lake Murray-2, Papuan Basin. Esso Aust. Ltd. Pal. Rpt. 1977/1.
2 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.

Lavani 1 -5.771498 142.560971 Papuan Basin
PEDIN/File numbers: W9820001 OS 010

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
			'*' = non-active record					
426.72	S3160 L	144.00	B.eneabbaensis	MAX AGE	P	F5	O	1
1152.14	S4125 L	173.00	C.cooksoniae	MAX AGE	P	F5	O	1
1200.91	S4145 L	193.50	I.turbatus	MAX AGE	P	F7	O	1
2986.43	S4150 L	210.00	C.torosa	MAX AGE	P	F5	O	1

1 AMOCO P.N.G (1982), Summary of Paleontology and Palynology, Appendix 3, Lavani No.1 well completion report.

Magobu Island 1 -8.529833 143.27533 Papuan Basin
PEDIN/File numbers: W9700002 70/581

'*' = non-active record

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
941.83	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	B4	O	1
1019.56	M3211	L	106.50	C.denticulata Upper	MAX AGE	P	B2	O	1
1117.09	M3240	H	115.00	O.operculata 2C	PALAEO	P	A1	O	1
1203.96	M3240	L	119.50	O.operculata 2C	PALAEO	P	B2	O	1
1251.51	M3245	H	118.50	A.cinctum 2DI	PALAEO	P	B2	O	1
1256.39	M3245	L	120.50	A.cinctum 2DI	PALAEO	P	B2	O	1
1278.03	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	P	B2	O	1
1298.45	M3265	L	132.00	P.burgerii 3A	MAX AGE	P	B2	O	1
1328.01	M3305	H	139.00	lower B.reticulatum 4AIV	MIN AGE	P	B5	O	1
1428.29	M3327	H	143.00	P.iehiense 4CI/II	MIN AGE	P	B2	O	1
1499.31	M4105	H	144.50	upper D.jurassicum 5A	MIN AGE	P	A1	O	1
1655.67	M4150	H	158.00	W.spectabilis 6CI/II	MIN AGE	P	B3	O	1
1920.24	M4165	L	164.00	R.aemula 7AI	MAX AGE	P	B1	O	1
2065.93	M4180	H	167.00	W.indotata 7BII	MIN AGE	P	A2	O	1
2066.24	M4180	L	171.50	W.indotata 7BII	MAX AGE	P	A3	O	1
2239.37	M4190	H	172.50	lower C.halosa 7CII	MIN AGE	P	B5	O	1
2353.97	M4195	L	180.00	D.caddaensis 7D	MAX AGE	P	A2	O	1
2495.09	S4145	L	193.50	I.turbatus	MAX AGE	P	B2	O	1
2571.90	S4150	L	210.00	C.torosa	MAX AGE	P	B2	O	1

This review is based on re-interpretation of assemblage data and discussion concerning 20 SWC samples, 11 samples from 6 conventional cores and 10 ditch cuttings samples provided by Helby & Partridge (1976).

Dettmann & Paten (1971) reported on the palynological content of19 samples. An additional 8 ditch cuttings were examined by Price (1973, 1974). Those samples were were re-examined and incorporated in Helby & Partridge (1976)

The Helby & Partridge results were expressed in terms of a very early version of the HMP zonation. They are re-interpreted and brought up-to date in this review.

I have attempted to interpret the data in terms of the zonations outlined by Davey (1987) and Welsh (1990). These translationsare outlined on the sample summary.

Helby & Partridge reported that data from the cuttings samples were generally considered unreliable due to very heavy Cretaceous caving, which totally swamped the Mid-Late Jurassic assemblages.

The Albian samples (3090-3345') are not well characterised, lacking index species.

The sample at 3090' is confidently regarded as no younger than the X. asperatus Zone on the basis of the occurrence of L. arundum and Diconodinium pusillum/multispinum and the apparent absence of D. multispinum/dispersum.

The sample at 3345' is considered no older than the upper C. denticulata Zone on the basis of the occurrence of D. tuberculata. However,the occurrence of N. densiradiata may indicate a slightly younger age (see Simon zonation).

The early Albian-Late Aptian M. tetracantha and D. davidii Zones(2bii/iii) were not recorded, although there is a 320' sample gap at about that level.

The M. australis Zone (2dii) was not recorded, although there is a 71' sample gap at that level.

The S. tabulata-E. torynum Zones (3b-4aii) were not recorded, although there is a 97' sample gap at that level.

The samples between 4357-4545' are considered no younger than the lower B. reticulatum Zone (4aiv) on the basis of the occurrence of P. apiculatum.

Davey (1987) and Welsh (1990) mark the top of their P. apiculatum Zone at the first downhole occurrence of P. apiculatum. Both correlate that horizon within the lower B. reticulatum Zone.

Samples between 5210-5805' are not well characterised.Tentative identification of X. densispinosum with C. perforans at 5210' (ditch cuttings) may indicate the presence of C. perforansor D. swanense Zone (5d/6a), or even slightly younger assemblage.

The occurrence of W. digitata at 5452' suggests that the sample is no younger than the W. spectabilis Zone (6c+), unless it is reworked.

The mutual occurrence of R. aemula and T. balmei indicate that the sample at 6300m is no younger than lower R. aemula (7aii).

The apparent absence of W. digitata and R. aemula, together with the occurrence of Ctenidodinium sp. 501, W. indotata and C. cooksoniae in core samples at 6778' and 6779' base the assignment to the W. indotata Zone

Samples at 7338' and 7347' contain few microplankton.The spore-pollen suite lacks M. florida and contignisporites spp. and is dominated by C. dampieri. It is assigned with moderate confidence to the lower C. halosa Zone (7cii upper D. complex Zone)

The prominent occurrence of C. turbatus (I. turbatus) in samples from Core 10 (7720', 7723'), together with D. complex indicate that the suites are no older than the lower D. complex Zone, which is commonly associated with the Dissiliodinium caddaense Zone (7d). Phallocysta erregulense was tentatively identified at 7723'.

The abundance of C. turbatus and the apparent absence of D. complex at 8186' suggests that the upper C. turbatus Zone (I. turbatus) has been intersected. The C. upper turbatus Zone is often associated with the basal part of the D. caddaense dinoflagellate Zone (7d).

The abundance of Dictyophyllidites spp. in the ditch cuttings sample at 8190' suggests that the lower C. turbatus Zone (9b) has been intersected.

The sample at 8438' is totally dominated by Corollina spp., indicating that it is no older than the C. torosa Zone (10), although it could be as young as lower C. turbatus Zone (9b).

The majority of the samples were processed in 1971. The quality of the preparations is in terms of current processing techniques, poor. It is recommended that the core samples should be re-processed.

Additional cuttings samples between 3345-3665' may elucidate the apparent absence of the D. davidii and M. tetracantha Zones

Reviewed by Robin Helby, December 1993.

1 Helby, R.J. & Partridge, A.D., (1976): Palynological analysis ofthe Mesozoic sequence in Magobu Island-1, Papuan Basin.EPR 1976/14.
2 Dettmann, M.E. & Paten, R.J. (1971) Appendix 8, Palynological Report: In Endeavour Oil Co. N.L. Magobu Island No. 1 well completion report by J.B. Hocking et al., 8pp.
3 Price, P.L. (1973): Palynological report on Magobu Island No. 1Mines Administaration P.L. Report No. 146/8.
4 Price, P.L. (1974): Selected samples from Magobu Is. No. 1, Komewu No. 1, Wuroi No. 1, Mutare No. 1 and Aramia No. 1. Mines Administration .PL. Report 146/10.
5 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. AssnAustralas. Palaeontols 4, 1-94.
6 Davey,R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.
7 Welsh, A., (1990): Applied Mesozoic biostratigraphy in the Western Papuan Basin. in Carman, G.J. and S. (Eds), 1990,Petroleum Exploration in Papua New Guinea: Proceedings of the First PNG Petroleum Convention, Port Moresby, pp.369-80.

Mananda 3X -6.191625 142.879372 Papuan Basin
PEDIN/File numbers: W9850003 OS 205

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
1490.47	M3195	H	89.00	P.infusorioides 1AI	PALAEO	P	D2	O	1
1795.27	M3195	L	92.00	P.infusorioides 1AI	PALAEO	P	D2	O	1
1825.75	M3200	H	92.00	D.multispinum 1AII	MIN AGE	P	D2	O	1
1993.39	M3200	L	97.50	D.multispinum 1AII	MAX AGE	P	D3	O	
2020.82	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	D3	O	1
2036.06	M3215	L	109.00	C.denticulata 1C/2A	MAX AGE	P	D4	O	1
2130.55	M3225	H	109.00	M.tetracantha 2BI/II	MIN AGE	P	D3	O	1
2161.03	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	D2	O	1
2191.51	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	D3	O	1
2221.99	M3240	H	115.00	O.operculata 2C	MIN AGE	P	D4	O	1
2298.19	M3252	L	126.00	M.australis 2Dii/iii	MAX AGE	P	D2	O	1
2328.67	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	P	D3	O	1
2359.15	M3270	H	132.00	S.tabulata 3B	MIN AGE	P	D4	O	1
2401.82	M3280	L	137.00	S.areolata 3C	MAX AGE	P	D5	O	1
2410.97	M3290	H	137.00	E.torynum 4AI/II	MIN AGE	P	D4	O	1
2452.12	M3298	H	138.00	B.reticulatum 4AIII/IV	MIN AGE	P	C3	O	1
2493.48	M3327	H	143.00	P.iehiense 4CI/II	PALAEO	P	C5	O	1
2531.52	M3327	H	143.00	P.iehiense 4CI/II	PALAEO	A	C5	O	1
2558.83	M3327	L	144.50	P.iehiense 4CI/II	PALAEO	A	C5	O	1
2621.28	M3327	L	144.50	P.iehiense 4CI/II	PALAEO	P	D3	O	1

This report is based on range data from 11 conventional core samples (Ingram p.10 indicated that two further core samples were barren) and 42 ditch cuttings samples.

The interpretation in this report differs only marginally from Ingram.

Ingram recognized an upper and a lower P. infusorioides Zone, extending from 4890-5190' and 5290-5890', respectively. Ingram placed the subzone boundary at the first downhole occurrence of Ascodinium parvum.

McMinn (1988) indicated that A. parvum ranged into the basal Coniacian (on the North-west Shelf). The range in the Papuan Basin may be different.

Ingram assigned sample at 6590' to the D. multispinum Zone (1aii). This dinocyst assemblage is dominated by mud contamination,the only taxa which can be regarded as in situ are not diagnostic to attribute ages at this level.

Ingram identified the lower M. australis Zone (2diii) at 7540'.

Ingram identified a S. tabulata Zone (3b) between 7740- 7850' and the S. areolata Zone (3c) at 7880'. Given the nature of the samples (ditch cuttings and restricted assemblages) I have treated these zones as a single interval.

I have tentatively accepted the identification of Batioladinium reticulatum. Morgan (1989 fig. 7) indicated that B. reticulatum and B. apicoramosa (=B. ramosa) do not occur together in the Papuan Basin.

Davey(1988) & Morgan(1989) indicate a sequence of downhole first occurrences starting with P. iehiense followed by Hystrichogonyaulax serrata and Broomea simplex. Ingram records H. serrata at 8180.7' and B. simplex at 8305.5'. These occurrences may indicate the penetration of the P. iehiense Zone.

Helby, Morgan & Partridge (1987 fig. 21) show a disjunct range for Dissimulidinium lobispinosum with the lower range occurring in the P. iehiense Zone. Ingram recorded equivocal specimens of this form at 8344' and

Ingram's occurrences of D. lobispinosum are not inconsistent with the identification of the P. iehiense Zone.

1 Ingram, B. (1985): Palynology Report AP 91,Mananda-3X. Report prepared for Paltech Pty Ltd.
2 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols.4, 1-94.
3 McMinn, A. (1988): Outline of a Late Cretceous dinoflagellate zonation of northwestern Australia. Alcheringa 12, 137-156.
4 Morgan, R. (1989): Overview and hybrid palynology zonation for the Late Mesozoic of Papua New Guinea. (unpubl. multiclient report).
5 Davey,R.J., (1988): Palynological zonation of the Lower Cretaceous, Upper and upper most Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea.Geol. Surv. PNG Mem. 13, 1-11.

Morehead 1 -8.746193 141.526276 Papuan Basin
PEDIN/File numbers: W9560001

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
1148.20	M3195	H	89.00	P.infusorioides 1AI	PALAEO	P	A3	O	1
1250.00	M3195	L	92.00	P.infusorioides 1AI	PALAEO	P	D2	O	2
1262.20	M3200	H	92.00	D.multispinum 1AII	PALAEO	P	A3	O	1
1510.00	M3200	L	97.50	D.multispinum 1AII	PALAEO	P	D4	O	2
1533.80	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	A	A5	O	1
1600.00	M3200	L	97.50	D.multispinum 1AII	PALAEO	A	D4	O	2
1631.00	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	D3	O	2
1802.90	M3210	L	104.00	P.ludbrookiae 1B	MAX AGE	P	A2	O	1
1869.00	M3210	L	104.00	P.ludbrookiae 1B	MAX AGE	A	D2	O	2
1869.40	M3211	H	104.00	C.denticulata Upper	PALAEO	P	A1	O	1
1921.50	M3211	L	106.50	C.denticulata Upper	PALAEO	P	A1	O	1
1931.00	M3211	L	106.50	C.denticulata Upper	PALAEO	A	D2	O	2
1990.00	M3225	H	109.00	M.tetracantha 2BI/II	PALAEO	P	D2	O	2
2030.60	M3225	L	113.00	M.tetracantha 2BI/II	PALAEO	P	A3	O	1
2050.00	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	D1	O	2
2068.70	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	A2	O	1
2101.00	M3235	L	115.00	D.davidii 2BIII	PALAEO	A	D2	O	2
2109.20	M3240	H	115.00	O.operculata 2C	PALAEO	P	A4	O	1
2167.30	M3240	L	119.50	O.operculata 2C	PALAEO	P	A3	O	1
2181.00	M3245	H	118.50	A.cinctum 2DI	MIN AGE	P	D4	O	2
2219.00	M3252	L	126.00	M.australis 2Dii/iii	MAX AGE	P	D4	O	2
2242.00	M3265	H	130.00	P.burgerii 3A	MIN AGE	A	D4	O	2
2263.80	M3265	H	130.00	P.burgerii 3A	MIN AGE	P	A2	O	1
2271.00	M3265	L	132.00	P.burgerii 3A	MAX AGE	P	D2	O	2
2300.00	M3280	H	135.00	S.areolata 3C	MIN AGE	P	D4	O	2
2317.40	M3290	H	137.00	E.torynum 4AI/II	MIN AGE	P	A5	O	1
2339.70	M4120	L	148.50	O.montgomeryi 5CI-III	MAX AGE	P	A5	O	1
2404.60	M4135	H	148.50	C.perforans 5D	MIN AGE	P	A2	O	1
2405.20	M4145	H	154.50	W.clathrata 6B	MIN AGE	P	A2	O	1
2426.00	M4150	H	158.00	W.spectabilis 6CI/II	MIN AGE	P	A3	O	1

This re-interpretation is based on range data and discussion provided in Helby & Partridge (1976) and Welsh (1989).

Helby & Partridge provided range data and discussion from 30 samples from 26 conventional cores while Welsh provided range data concerning 49 ditch cuttings samples. Although it is not stated in the report I suggest that the data presented by Welsh were probably recorded by Roger Morgan

The Helby & Partridge data were interpreted in terms of a very early version of the Helby zonation. They have been updated to the Helby, Morgan & Partridge zonation in this review. Welsh's interpretations are expressed in terms of a BP scheme which more closely resembles Davey (1988) than HMP

Details of five Miocene samples, between 698.6-1079.3m, were provided by Alan Partridge. Although dinoflagellates were recorded in most of the samples they were not considered diagnostic. However, the spore-pollen age attracts moderate confidence

The range charts, which I provided in the Helby & Partridge report, do not show the full assemblages recorded in some samples and I have recoursed to the original tick the sheets for this review.

The base of the Cenomanian D. multispinum Zone is not well characterized and the pick for the top of the Albian is equivocal. The Welsh report shows D. pusillum extending through the D. multispinum Zone. This form is not normally considered to extend beyond the late Albian.

There is substantial evidence of reworking in the Cenomanian sequence in Morehead-1. Caving of the Turonian and Cenomanian sequences is marked and together with reworking obscures the late Albian/Cenomanian boundary.

The Albian sequence appears to be relatively complete.

Basal Aptian to Hauterivian assemblages are not well characterized. The M. testudinaria Zone is not identified.

The top of the P. burgeri Zone is based on the highest occurrence of S. palmula at 2242m and the apparent absence of D. cerviculum in the core sample at 2264m.

Valanginian assemblages below the P. burgeri Zone are not well defined. There is no direct evidence of the Senoniasphaera tabulata or Systematophora areolata Zones. Indeed, Welsh (Morgan) recorded Nummus similis at 2280m and 2311m interpreting those sample as Tithonian (D. jurassicum).

Berriasian to Tithonian assemblages are not well defined. The sample at 2317m contains P. mirabila and Nummus spp. Davey (1988) suggests that P. mirabila does not extend above his P. mirabila Zone in the Papuan Basin, the top of which he equates with the top of the C. delicata (4bii) Zone of HMP.

Note that Welsh assigned the samples at 2280m and 2311m to the upper *D. jurassicum* Zone (*N. similis* Zone of Davey).

Reviewed by Robin Helby - September 1993.

1 Helby, R.J. & Partridge, A.D. (1977): Palynological analysis, Morehead-1 Papuan Basin. Esso Aust. Palaeontol. Rpt 1976/15
2 Welsh, A. (1989): Palynological data from Barikewa-1, Iamara-1, Iehi-1, Komewu-2 and Morehead-1, Papuan Basin, Papua New Guinea. BP report-R10989.
3 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
4 Davey,R.J., (1988): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77

Morigio 1
*** CONFIDENTIAL *** -7.976069 144.133139 Papuan Basin
PEDIN/File numbers: W9890007

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
2465.00	M3280	H	135.00	S.areolata 3C	MIN AGE		D4	O	1
2500.00	M3298	H	138.00	B.reticulatum 4AIII/IV	PALAEO		D4	O	1
2557.10	M3298	L	139.50	B.reticulatum 4AIII/IV	MAX AGE		B4	O	1
2642.00	M3320	L	143.00	K.wisemaniae 4BIII	MAX AGE		B4	O	1
2671.90	M3325	H	143.00	upper P.iehiense 4CI	PALAEO	P	B2	O	1
2714.10	M3325	L	144.00	upper P.iehiense 4CI	PALAEO	P	B2	O	1
2771.90	M4206	L	144.50	Leiosphaerid 4Ciii (Helby)	PALAEO	P	B4	O	1
2840.00	M4105	H	144.50	upper D.jurassicum 5A	PALAEO	P	D1	O	1
2905.00	M4105	L	145.50	upper D.jurassicum 5A	PALAEO	P	D1	O	1
2912.00	M4110	H	145.50	lower D.jurassicum 5B	PALAEO	P	B2	O	1
2988.00	M4110	L	147.00	lower D.jurassicum 5B	PALAEO	P	B2	O	1
3018.10	M4120	H	147.00	O.montgomeryi 5CI-III	PALAEO	P	B2	O	1
3066.90	M4120	L	148.50	O.montgomeryi 5CI-III	PALAEO	P	B2	O	1
3092.90	M4135	H	148.50	C.perforans 5D	PALAEO	P	B3	O	1
3253.00	M4135	L	150.00	C.perforans 5D	PALAEO	P	B4	O	1
3292.90	M4155	L	160.50	upper W.spectabilis 6CI	PALAEO	P	B2	O	1
3343.00	M4165	H	162.00	R.aemula 7AI	PALAEO	P	B3	O	1
3950.00	M4165	L	164.00	R.aemula 7AI	PALAEO	P	D5	O	1
3990.00	S4125	L	173.00	C.cooksoniae	PALAEO	P	D7	O	1

This report derives from interpretation of data presented on the range charts in Davey's (1989) report on the well.

Davey's range charts provide distribution data for 25 SWC samples and 11 ditch cuttings samples.

The samples at 3634m and 3990m lack diagnostic microplankton and are assigned to the Dictyotosporites complex and contignisporites cooksoniae spore-pollen zones, respectively.

The zonal scheme used in this interpretation is adapted from Helby, Morgan & Partridge (1987)

1 Roger J. Davey (1989): Robertson Group - project No. RRU1/890/1111. The palynostratigraphic and depositional environment of the Mesozoic of Morigio-1 well
2 Helby, R., Morgan, R. & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.

Omati 1 -7.433498 143.958333 Papuan Basin
PEDIN/File numbers: W9500002

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
3084.27	M3210	H	99.50	P.ludbrookiae 1B	PALAEO	P	A2	O	1
3126.33	M3210	L	104.00	P.ludbrookiae 1B	PALAEO	A	A5	O	1
3127.25	M3210	L	104.00	P.ludbrookiae 1B	PALAEO	P	A5	O	1
3174.19	M3215	L	109.00	C.denticulata 1C/2A	MAX AGE	P	A4	O	1
3180.89	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	A1	O	1
3227.22	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	A1	O	1
3298.55	M3240	H	115.00	O.operculata 2C	MIN AGE	P	A4	O	1
3348.23	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	P	A4	O	1
3364.38	M3260	L	130.00	M.testudinaria 2DIV	MAX AGE	P	A4	O	1
3516.17	M3298	H	138.00	B.reticulatum 4AIII/IV	MIN AGE	P	A3	O	1
3569.51	M3327	M	143.75	P.iehiense 4CI/II	SNGL DEPTH	P	A3	O	1
3632.61	M4206	M	144.25	Leiosphaerid 4Ciii (Helby)	SNGL DEPTH	P	A2	O	2
3711.85	M4100	H	144.50	D.jurassicum 5A/B	MIN AGE	P	A2	O	1
3900.83	M4100	L	147.00	D.jurassicum 5A/B	MAX AGE	P	A4	O	1
3917.29	M4120	H	147.00	O.montgomeryi 5CI-III	PALAEO	P	A1	O	1
3978.25	M4120	L	148.50	O.montgomeryi 5CI-III	PALAEO	P	A1	O	1
4040.12	M4140	H	150.00	D.swanense 6A	MIN AGE	P	A1	O	1
4106.88	M4140	L	154.50	D.swanense 6A	MAX AGE	P	A5	O	1
4164.18	M4145	H	154.50	W.clathrata 6B	MIN AGE	P	A3	O	1
4166.92	M4145	L	158.00	W.clathrata 6B	MAX AGE	P	A3	O	2
4196.79	M4150	H	158.00	W.spectabilis 6CI/II	MIN AGE	P	A3	O	2
4337.30	M4150	L	162.00	W.spectabilis 6CI/II	MAX AGE	P	D3	O	2

Helby & Partridge (1977) reported on 25 Mesozoic core samples from the Omati-1 well. Distribution charts and zone discussions were provided.

Cookson & Eisenack (1958) recorded occurrences of selected taxa in Omati-1. Some of these data have been incorporated in this review.

I have examined numerous Omati-1 samples in the Cookson collection (National Museum of Victoria). Unpublished data from some of these samples are included in this review.

The Helby & Partridge data were interpreted in terms of an early version of the Helby, Morgan & Partridge zonation, and are updated in this report.

For this re-interpretation I have worked from the originalsample sheets.

Pseudoceratium ludbrookiae was not recorded in the P. ludbrookiae Zone. The top-zone assignment is based on theassociation of L. siphoniphorum and D. pusillum.

The disposition of early and Mid Albian in not satisfactorilyindicated from Omati-1 samples. I attach a sample review for Omati-2 which more adequately covers this section.

The sample at 10822' is assigned to the O. operculata Zoneon the basis of the apparent absence of D. davidii Zone taxa and the prominent occurrence of C. magna, indicating a correlation with the C. magna Zone of Davey (1988).

The samples at 10985' and 11038' are considered no older than M. testudinaria Zone on the basis of occurrence of D. cerviculum. It is unlikely that they are younger than that zone on the basis of the occurrence of S. areolata.

The sample at 11536' is considered no younger than the lower B. reticulatum Zone on the basis of the occurrence of P.apiculatum. Davey correlates the top of his P. apiculatum Zone within the lower B. reticulatum Zone of HMP.

The sample at 11918' is assigned to the Leiosphaerid Zone onthe basis of the abundant occurrence of Nummus spp. (and theapparent absence of N. similis) in a slide from the Cookson collection.

A specimen of D.swanense was confidently identified (as O.butticula) on the 13255' tick sheet.This occurrence was not noted in the distribution data provided by Helby & Partridge, but its presence was indicated on page 7.

C. perforans occurs abundantly in samples from Core 417 and was previously considered typical of the C. perforans Zone.

Cookson & Eisenack recorded W. clathrata in Core 419 at 13671' and W. spectabilis in Core 420 at 13769' and in ditch cuttings at 14060/60' and 14230/60'.

A ditch cuttings sample, at 14060', in the Cookson collection (No. 17297), included W. digitata and W. sp. cf. W. spectabilis.

Reviewed by Robin Helby - November 1993.

1 Helby, R.J. & Partridge, A.D. (1976): Palynological analysis, Omati-1 and Omati-2 wells, Papuan Basin. Esso Aust. Palaeontol. Rpt 1977/10.
2 Cookson, I.C. & Eisenack, A. (1958): Microplankton from Australia and New Guinea upper Mesozoic sediments. J. Proc. Roy. Soc. Vict, 70, 19-79.
3 Helby, R., Morgan,R., & Partridge, A.D. (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols. 4, 1-94.
4 Davey,R.J., (1988): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77

Orie 1 -6.988944 141.196581 Papuan Basin
PEDIN/File numbers: W9760001

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
					'*' = non-active record				
1383.00	M3200	L	97.50	D.multispinum 1AII	MAX AGE	P	B4	O	4
1492.00	M3205	H	97.50	X.asperatus 1AIII	MIN AGE	P	B3	O	1
1527.00	M3225	H	109.00	M.tetracantha 2BI/II	MIN AGE	P	B4	O	1
1597.00	M3235	H	113.00	D.davidii 2BIII	MIN AGE	P	B2	O	1
1661.00	M3240	H	115.00	O.operculata 2C	MIN AGE	P	B4	O	1
1684.00	M3240	L	119.50	O.operculata 2C	MAX AGE	P	B4	O	1
1708.00	M3270	H	132.00	S.tabulata 3B	PALAEO	P	B4	O	1
1835.00	M3270	L	135.00	S.tabulata 3B	PALAEO	P	B2	O	4
1867.00	M3280	L	137.00	S.areolata 3C	MAX AGE	P	B4	O	1
1908.50	M3300	H	138.00	upper B.reticulatum 4AIII	MIN AGE	P	B3	O	1
1982.00	M3305	H	139.00	lower B.reticulatum 4AIV	MIN AGE	P	B5	O	1
1994.00	M3320	L	143.00	K.wisemaniae 4BIII	MAX AGE	P	B5	O	1
2067.50	M4206	L	144.50	Leiosphaerid 4Ciii (Helby)	MAX AGE	P	B5	O	1
2193.50	M4105	H	144.50	upper D.jurassicum 5A	PALAEO	P	B3	O	1
2295.00	M4105	L	145.50	upper D.jurassicum 5A	PALAEO	P	B2	O	1
2305.00	M4110	L	147.00	lower D.jurassicum 5B	MAX AGE	P	B4	O	1
2332.00	M4120	L	148.50	O.montgomeryi 5CI-III	MAX AGE	P	B2	O	1
2398.00	M4140	H	150.00	D.swanense 6A	MIN AGE	P	B2	O	1
2449.00	M4145	H	154.50	W.clathrata 6B	MIN AGE	P	B4	O	4
2551.50	M4150	H	158.00	W.spectabilis 6CI/II	PALAEO	P	B3	O	1
2608.00	M4150	L	162.00	W.spectabilis 6CI/II	PALAEO	P	B4	O	1
2845.00	M4171	L	167.00	W.digitata 7AII/BI	MAX AGE	P	B5	O	4

This report is based on re-interpretation of range chart data and discussion in reports by Welsh (1989), Ingram (1976) and Ingram (1985).

Welsh (1989) provided a CHECKLIST print out recording data from 25 SWC samples.

Ingram (1976) did not provide data concerning individual samples or zones but reported on groups of samples covering mutiple zones.

Ingram (1985) provided range data for 23 SWC samples. The number of taxa listed suggest that very little time was spent on this particular report.

Comparison of microplankton recorded by Welsh:Ingram
1383-17:5,1492-12:3,1527-19:5,1597-19:4,1661-20:4,
1684-17:4,1708-19:4,1779-14:7,1835-16:4,1867-13:2,1908.5-4:2,

Both workers record substantial reworking at 1383m. The occurrence of Diconodinium multispinum and Ascodinium parvum indicate that the sample is no older than the D. multispinum Zone.

The O. operculata Zone is not well characterized between 1661- 1684m. These are not very high confidence assignments.

Welsh assigns the sample at 1835m to the E. torynum Zone, possibly on the basis of the occurrence of Leptodinium pinnosum. However, he records A. falsficum and S. ramosus in this sample, suggesting need of a younger assignment

Ingram records Senoniasphaera tabulata in the sample at 1835m, and the sample is accordingly assigned to the S. tabulata Zone.

Welsh assigns the sample at 1867m to the E. torynum Zone, but his reasons are not clear. On the basis of the occurrence of A. falsificum and the Spiniferites ramosus/furcatus group the sample is interpreted as no older than the S. areolata Zone (3c-)

The upper Batioladinium reticulatum Zone is recorded at 1908.5m on the basis of the occurrence of the eponymous species and the apparent absence of Dissimulidinium lobispinosum and Papuadinium apiculatum.

The zone assignments between 1982-2067.5m are lower confidence picks.

Welsh referred the sample at 2449m to the C. perforans Zone. Ingram recorded Wanaea clathrata in this sample and assigned it to the W. clathrata Zone. I follow Ingram in this instance.

Ingram indicated that the W.spectabilis Zone extended from 2608-2620m, although no data was presented from the lower sample. Welsh records prominent W.spectabilis, together with W. digitata at 2551.5m, indicating that the top of the zone can be no lower

Welsh did not report on samples below 2608m. Ingrams data indicate that these are no older than the W. digitata Zone (7bi-), on the basis of the occurrence of the eponymous species in each sample.

Reviewed by Robin Helby - June 1993.

1 Welsh, A., (1989): Palynological data from Orie-1, Papuan Basin, Papua New Guinea. BP Australia R11311
2 Helby, R., Morgan, R., & Partridge, A.D., (1987): palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.
3 Ingram, B.S., (1976). Palynological Report - Orie No. 1 well. Appendix 2
4 Ingram, B.S., (1985): Revision of three Papuan Basin wells: Kanau 1, Orie 1, Iehi 1. Paltech June 1985.

Southeast Hedinia 1 -6.584947 143.387233 Papuan Basin
PEDIN/File numbers: W9840005 OS 295

'*' = non-active record

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
890.02	M3200	H	92.00	D.multispinum 1AII	PALAEO	P	D2	O	1
1437.44	M3200	L	97.50	D.multispinum 1AII	PALAEO	P	B2	O	1
1461.52	M3205	H	97.50	X.asperatus 1AIII	PALAEO	A	B4	O	1
1497.18	M3205	H	97.50	X.asperatus 1AIII	PALAEO	P	B2	O	1
1517.90	M3205	L	99.50	X.asperatus 1AIII	PALAEO	P	B2	O	1
1533.14	M3210	H	99.50	P.ludbrookiae 1B	MIN AGE	P	B4	O	1
1567.28	M3211	L	106.50	C.denticulata Upper	MAX AGE	P	B4	O	1
1594.71	M3235	H	113.00	D.davidii 2BIII	PALAEO	P	B1	O	1
1659.94	M3235	L	115.00	D.davidii 2BIII	PALAEO	P	B1	O	1
1688.59	M3240	H	115.00	O.operculata 2C	MIN AGE	P	B5	O	1
1728.22	M3240	L	119.50	O.operculata 2C	MAX AGE	P	B4	O	1
1738.58	M3265	H	130.00	P.burgerii 3A	MAX AGE	P	B2	O	1
1752.60	M3270	L	135.00	S.tabulata 3B	MIN AGE	P	D4	O	1
1786.13	M3280	L	137.00	S.areolata 3C	MAX AGE	P	D4	O	1
2174.75	M3327	H	143.00	P.iehiense 4CI/II	MIN AGE	P	B5	O	1
2194.56	M4105	H	144.50	upper D.jurassicum 5A	PALAEO	P	D2	O	1
2281.43	M4105	L	145.50	upper D.jurassicum 5A	PALAEO	P	B4	O	1
2409.44	M4105	L	145.50	upper D.jurassicum 5A	PALAEO	A	B5	O	1
2430.78	M4110	H	145.50	lower D.jurassicum 5B	PALAEO	P	B2	O	1
2538.98	M4110	L	147.00	lower D.jurassicum 5B	PALAEO	P	D4	O	1
2569.46	M4120	H	147.00	O.montgomeryi 5CI-III	PALAEO	P	A1	O	1
2779.78	M4120	L	148.50	O.montgomeryi 5CI-III	PALAEO	P	D4	O	1
2791.97	M4120	H	147.00	O.montgomeryi 5CI-III	MIN AGE	P	B4	O	1
3093.72	M4135	L	150.00	C.perforans 5D	MAX AGE	P	D4	O	1

This report is based on range chart data provided by Davey (in Davey, Ong, de Leon & Virdy (1987). Quantitative data from 58 sidewall core,3 conventional core and 26 ditch cuttings samples were presented.

The photocopies of the range charts provided were not totally legible, so that the occurrence of some taxa may not have been noted and the nature of the record (abundant, common, rare) may not have been taken into account. The numbers of microplankton taxa recorded on the sample review are not reliable.

The data are interpreted in terms of the Helby, Morgan & Partridge zonation (HMP, 1987).

The pick for the top of the Albian (X. asperatus Zone) is equivocal.The identification of X.ceratoides at 4795' must be questioned (is it possible that it is actually X .asperatus?). The top occurrence of Planomalina buxtorfi at 4940' may support the lower pick

The early Albian M. tetracantha Zone was not recorded.

The late Aptian D. davidii Zone assignments are high confidence picks.

Samples in the interval 5540-5670' were not well characterized.

The assignment of the sample at 5704' is tentative as D. cerviculum was reported at 5750'. Davey discussed the prominent occurrence of Systematophora spp. and Avellodinium flagellatum at 5750' supporting the S. tabulata Zone assignment at that level

The sample at 7135' is not well characterized, although the occurrence of B. simplex suggests that the sample is no younger than the P. iehiense Zone (4c+).

The prominent occurrence of N. similis indicates that the samples from 7200-7485' are no younger than the upper D. jurassicum Zone (5a+).

The prominent occurrence of M.P. 602 suggests that the samples from 7975' are no younger than lower D. jurassicum (5b).

Samples between 9160-10150' are predominantly ditch cuttings and the assignments are equivocal. C. perforans and H. pachydermum range through and may be prominent in the O. montgomeryi Zone. However,the consistent abundance is more characteristic of the C.perforans Zone.

Reviewed by Robin Helby - August 1993.

1 Davey,R.J., (1987): Mesozoic Palynolgy;in The Biostratigraphy of the Niugini Gulf Oil SE Hedinia-1X well,P.N.G. Robertson Reasearch report S/1/878/38.

Tarim 1 -5.358644 141.061175 Papuan Basin
PEDIN/File numbers: W9900002

Depth (m)	Datum	Age MA	Zone or Formation	Pick type	Pref /Alt	Conf	Sec	Ref
				'*' = non-active record				
2318.00	M3195 H	89.00	P.infusorioides 1AI	PALAEO	A	D5	O	1
2352.00	M3195 H	89.00	P.infusorioides 1AI	PALAEO	P	B2	O	1
2550.00	M3195 L	92.00	P.infusorioides 1AI	PALAEO	P	B2	O	1
2609.00	M3195 L	92.00	P.infusorioides 1AI	PALAEO	A	D2	O	1
2630.00	M3200 H	92.00	D.multispinum 1AII	PALAEO	P	D2	O	1
2951.00	M3200 L	97.50	D.multispinum 1AII	PALAEO	A	D2	O	1
2978.00	M3210 H	99.50	P.ludbrookiae 1B	PALAEO	A	D4	O	1
3067.00	M3200 L	97.50	D.multispinum 1AII	PALAEO	P	B1	O	1
3098.00	M3210 H	99.50	P.ludbrookiae 1B	PALAEO	P	D2	O	1
3131.00	M3210 L	104.00	P.ludbrookiae 1B	PALAEO	P	D2	O	1
3161.00	M3215 H	104.00	C.denticulata 1C/2A	PALAEO	P	D2	O	1
3191.00	M3215 L	109.00	C.denticulata 1C/2A	PALAEO	P	D2	O	1
3212.00	M3235 H	113.00	D.davidii 2BIII	PALAEO	P	D1	O	1
3290.00	M3235 L	115.00	D.davidii 2BIII	PALAEO	P	D2	O	1
3314.00	M3240 H	115.00	O.operculata 2C	PALAEO	P	D5	O	1
3338.00	M3240 L	119.50	O.operculata 2C	PALAEO	P	D2	O	1
3347.00	M3245 H	118.50	A.cinctum 2DI	PALAEO	P	D2	O	1
3355.00	M3245 L	120.50	A.cinctum 2DI	PALAEO	P	D1	O	1
3367.70	M3260 H	126.00	M.testudinaria 2DIV	PALAEO	P	A2	O	1
3383.00	M3260 L	130.00	M.testudinaria 2DIV	PALAEO	P	B1	O	1
3389.00	M3265 M	131.00	P.burgerii 3A	SNGL DEPTH	P	B2	O	1
3391.00	M3280 H	135.00	S.areolata 3C	PALAEO	P	B4	O	1
3401.00	M3280 L	137.00	S.areolata 3C	PALAEO	P	B4	O	1
3412.00	M3290 H	137.00	E.torynum 4AI/II	MIN AGE	P	B2	O	1
3461.00	M3315 H	140.50	C.delicata 4BII	MIN AGE	P	D2	O	1
3479.00	M3327 H	143.00	P.iehiense 4CI/II	MIN AGE	P	D2	O	1

This report is based on distribution data concerning 54 samples (14 SWC, 2 conventional core and 38 ditch cuttings) presented in the Richards et al. report. Interpretation is based mainly on microplankton data.

The data are interpreted in terms of the Helby, Morgan & Partridge (1987) zonation, although I have also attempted to interpret them in terms of the BP (Welsh, 1990) scheme.

There are several instances where my interpretations of the Simonscheme differ marginally from those presented on the distribution chart. These are bracketed after the Robertson version on the sample review.

The palynomorph assemblages reported from 2318m and 2332m were not well characterized. They are tentatively considered no younger than Turonian on the basis of apparent absence of diagnostic Coniacian or younger Senonian taxa

P. infusorioides are lumped with Subtilisphaera spp. as a single category on range chart. This inhibits confident interpretation of some samples, particularly as this group is reported as consistent through the Turonian/Cenomanian.

The pick for the base of the D.multispinum Zone is equivocal. D.tuberculatum occurs consistently from 2978m, although D. multispinum occurs consistently down to 3067m and D.cristatum and L.arundum were not reported above 3098m

The authors assign the samples at 3161m and 3191m to EK1.P. ludbrookiae was not recorded and I have assigned these samples to the upper C. denticulata Zone (1c-), which would correlate with Simon EK2.

The M. tetracantha Zone (2bii=EK3) was not recorded. There is asample gap of only 21m bewtween these ditch cuttings samples.

The report assigns the sample assings the cuttings sample at 3355m to LK6. However, this samle has a super abundance of A. cinctum, Which Davey (1987) indicated that the A. cinctum acme is confined within the C. magna Zone. The authors indicate that the relatively prominent occurrence of O. totum (12% vs 44%) is a preferred event.

The sample at 3389m is regarded as no older than P. burgeri Zone.The apparent absence of D. cerviculum precludes assignment to the M. testudinaria Zone.

Samples 3391m and 3401m are not well characterized. The apparent absence of E. torynum and other taxa characteristic of the underlying microflora suggests that they are no older than the S. areolata Zone.

The samples between 3412-3455m are not well characterized although the prominent occurrence of E. torynum indicates that theyare no younger than the E. torynum Zone.

The sample at 3461m is tentatively considered no older than the C. delicata Zone on the basis of the occurrence of P. mirabila, which has its first downhole occurrence at the top of the P. mirabila Zone in the Papuan Basin. Davey (1987) equates this with the top of the C. delicata Zone. Neither proposition is totally irresistible.

The authors assign samples between 3479-3499m to LJ1/2, based on the occurrence of Oligosphaeridium sp. 1 in all samples, which they regard as a good LJ1+ indicator. The occurrence of P. weymouthense at 3479, supports their assignment although their assignment of samples below 3479m to LJ2 is arguable.

Reviewed by Robin Helby - November 1993.

1 Richards, K., Bates, C.D., Ong, G.B., Bon, J. & Ludi, P.H. (1990): Dupont & P/Conoco Inc Tarim-1 Well, PPL 106/17 Papua New Guinea. Biostratigraphy and Palaeoenvironments.Robertson Singapore Private Ltd Rpt 1772 (Sept. 1990).

2 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.

3 Davey,R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.

4 Welsh, A., (1990): Applied Mesozoic biostratigraphy in the Western Papuan Basin. in Carman, G.J. and S. (Eds), 1990, Petroleum Exploration in Papua New Guinea: Proceedings of the First PNG Petroleum Convention, Port Moresby, pp.369-80.

Wabuda 1

*** CONFIDENTIAL *** -8.271472 143.670992 Papuan Basin
PEDIN/File numbers: W9900001

'*' = non-active record

Depth (m)	Datum		Age MA	Zone or Formation	Pick type	Pref /Alt	----codes---- Conf	Sec	Ref
1890.00	M3225	H	109.00	M.tetracantha 2BI/II	MIN AGE	P	D4	O	1
1920.00	M3240	H	115.00	O.operculata 2C	PALAEO	P	D4	O	1
2040.00	M3240	L	119.50	O.operculata 2C	PALAEO	P	D4	O	2
2100.00	M3245	H	118.50	A.cinctum 2DI	MIN AGE	P	B3	O	1
2125.00	M3252	L	126.00	M.australis 2Dii/iii	MAX AGE	P	B4	O	2
2150.00	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	A	B4	O	1
2160.00	M3260	H	126.00	M.testudinaria 2DIV	MIN AGE	P	D2	O	2
2165.00	M3270	H	132.00	S.tabulata 3B	PALAEO	P	B3	O	2
2205.00	M3270	L	135.00	S.tabulata 3B	PALAEO	P	B2	O	1
2215.00	M3280	H	135.00	S.areolata 3C	PALAEO	P	B4	O	1
2220.00	M3280	L	137.00	S.areolata 3C	PALAEO	P	B4	O	1
2240.00	M3298	H	138.00	B.reticulatum 4AIII/IV	MIN AGE	P	D2	O	1
2270.00	M3310	H	139.50	D.lobispinosum 4BI	MIN AGE	P	D4	O	1
2277.00	M3315	H	140.50	C.delicata 4BII	PALAEO	P	B5	O	1
2320.00	M3315	L	142.00	C.delicata 4BII	PALAEO	P	D4	O	1
2340.00	M3327	H	143.00	P.iehiense 4CI/II	PALAEO	P	D2	O	1
2403.00	M3327	L	144.50	P.iehiense 4CI/II	PALAEO	P	B3	O	1
2420.00	M4206	H	144.00	Leiosphaerid 4Ciii (Helby)	PALAEO	P	D5	O	1
2440.00	M4206	L	144.50	Leiosphaerid 4Ciii (Helby)	PALAEO	P	D5	O	1
2455.00	M4105	H	144.50	upper D.jurassicum 5A	PALAEO	A	B4	O	2
2487.00	M4105	H	144.50	upper D.jurassicum 5A	PALAEO	P	B2	O	1
2600.00	M4105	L	145.50	upper D.jurassicum 5A	PALAEO	P	D4	O	1
2635.00	M4110	H	145.50	lower D.jurassicum 5B	PALAEO	P	B2	O	1
2700.00	M4110	L	147.00	lower D.jurassicum 5B	PALAEO	P	D4	O	1
2722.00	M4120	H	147.00	O.montgomeryi 5CI-III	MIN AGE	P	B3	O	1
2749.00	M4135	H	148.50	C.perforans 5D	PALAEO	P	B2	O	1
3045.00	M4135	L	150.00	C.perforans 5D	PALAEO	P	B4	O	1

This interpretation is based on analysis of the range chart provided in the Morgan report (1991).

The range chart recorded the distribution of taxa in 28 sidewall core and 27 ditch cuttings samples.

Palynomorph diversity, particularly from sidewall core samples, were rather low compared with data from equivalent zones recorded by Robertson Research in PNG wells.

Morgan (1991) used a hybrid zonation based on Helby, Morgan & Partridge (1987), but including zones proposed by Davey (1988) and modified by BP - see Morgan (1991 Fig. 3).

Morgan assigned the interval 2749-3045m to the C. perforans Zone (5d). Wanaea clathrata was tentatively identified at 2865m, W. spectabilis was identified at 2889m and W. digitata at 3000m.

The possibility that the Wanaea clathrata Zone (6b) and the Wanaea spectabilis Zone (6c) have been intersectedshould be considered.

Reviewed by Robin Helby June 2, 1993.

1 Morgan, Roger, 1991: Palynology of Wabuda-1, Papuan Basin, PNG.
2 Helby, R., Morgan, R., & Partridge, A.D., (1987): A palynological zonation of the Australian Mesozoic. Mem. Assn Australas. Palaeontols 4, 1-94.
3 Davey,R.J., (1987): Palynological zonation of the Lower Cretaceous, Upper and uppermost Middle Jurassic in the northwestern Papuan Basin of Papua New Guinea. Geol. Surv. PNG Mem. 13, 1-77.

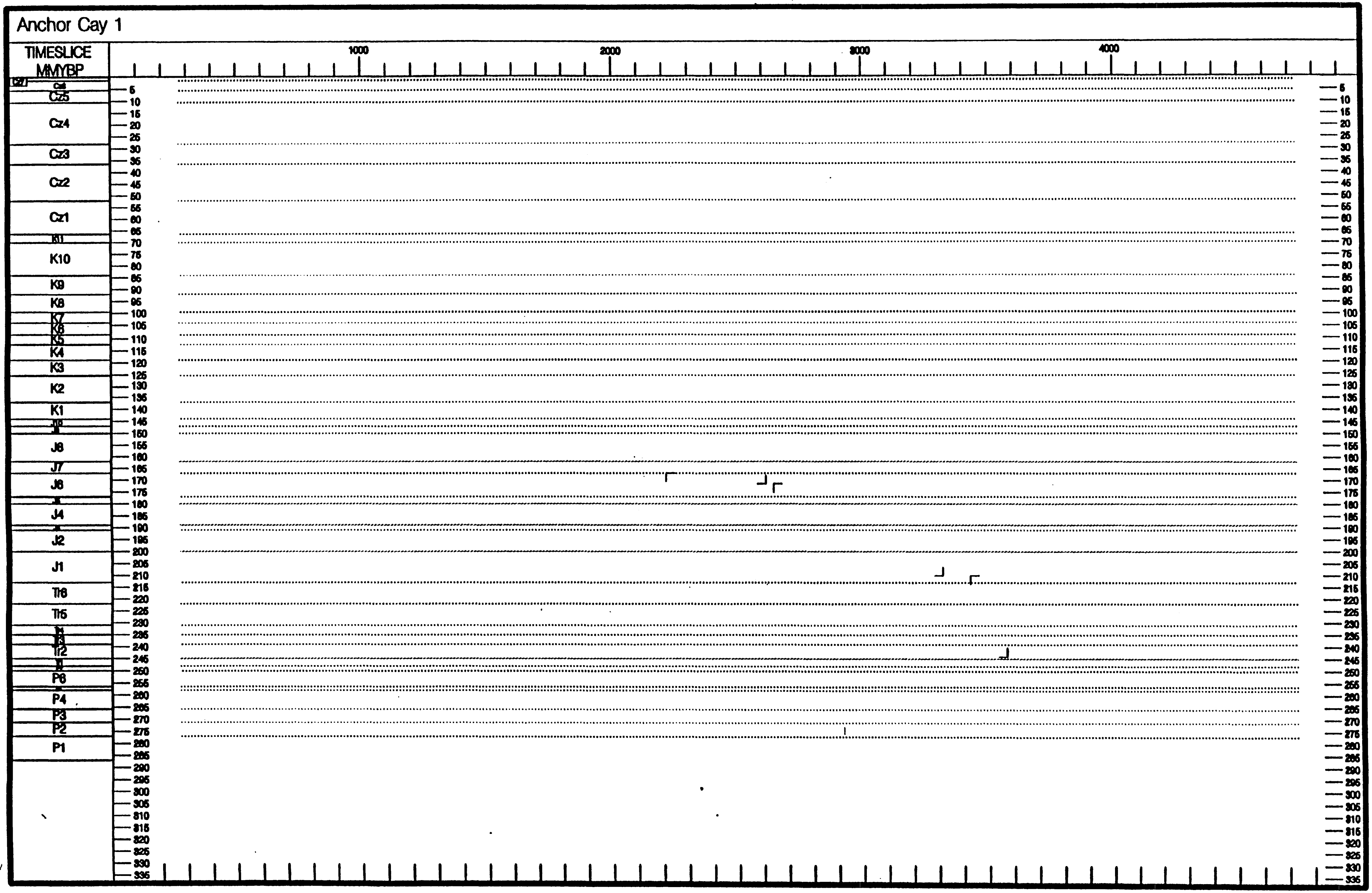
AGSO

AUSTRALIAN GEOLOGICAL
SURVEY ORGANISATION

AUSTRALIAN PETROLEUM SYSTEMS PROJECT

PAPUAN BASIN MODULE

APPENDIX 3 : AGE/DEPTH PLOTS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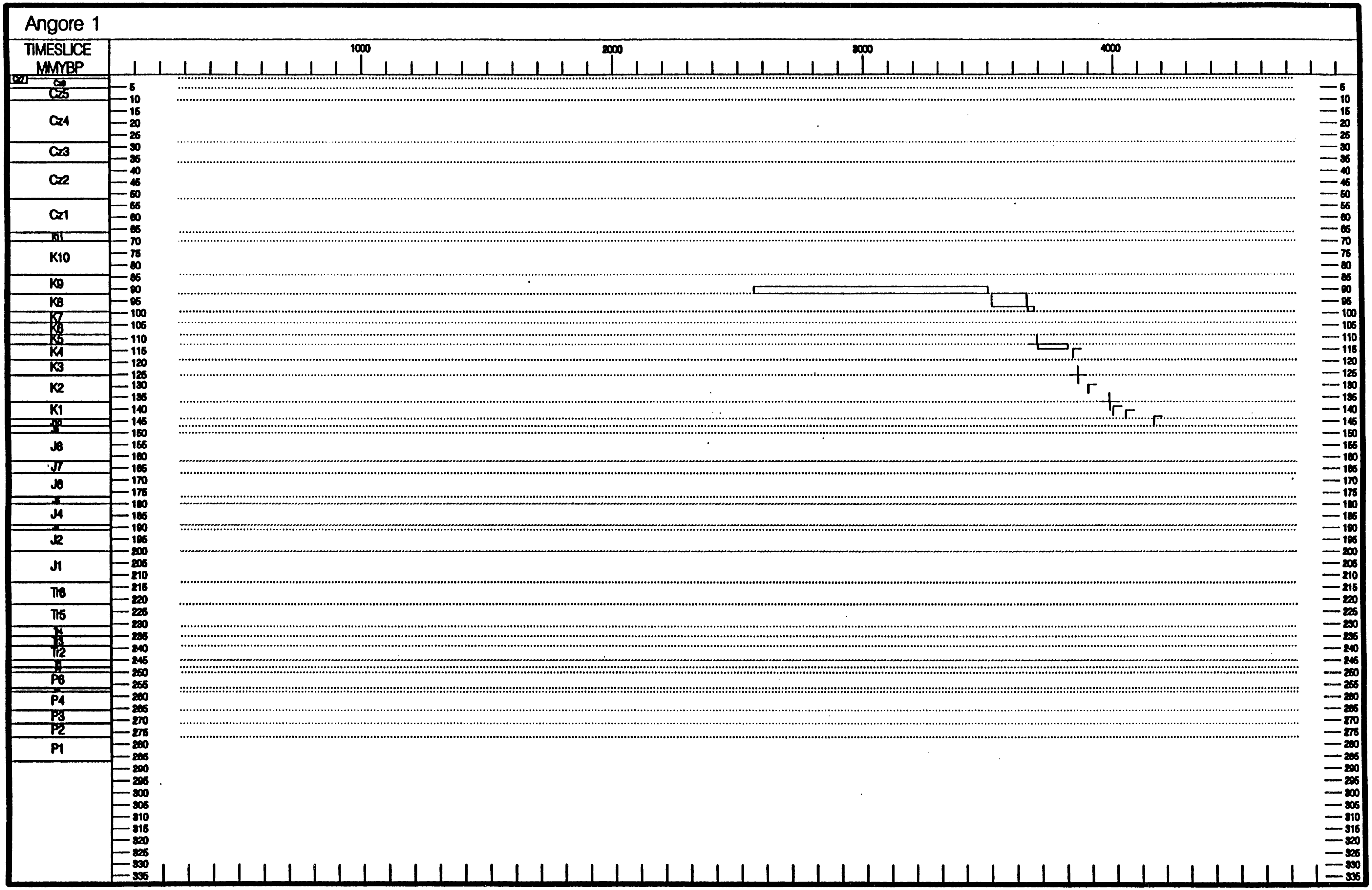

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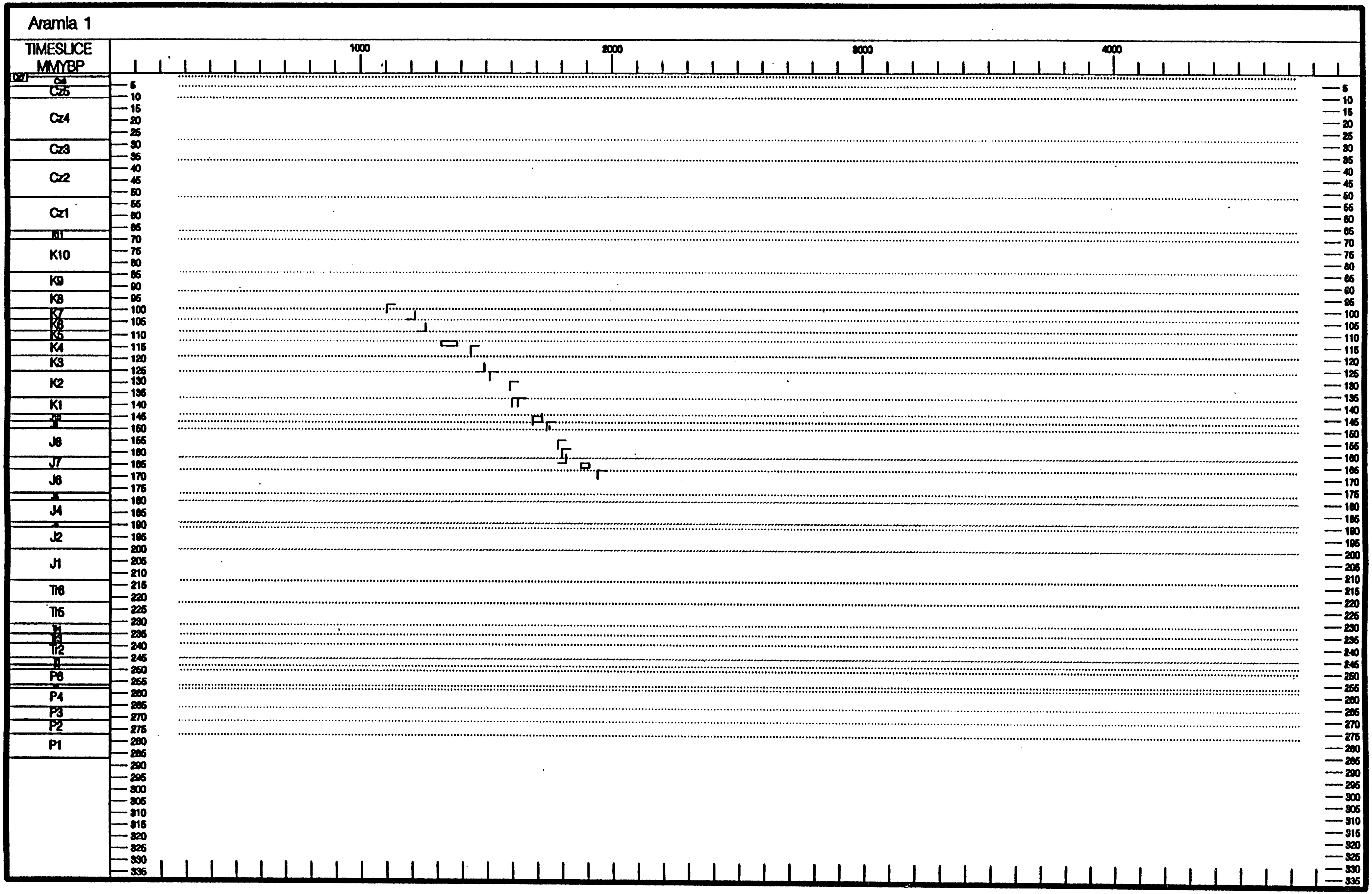
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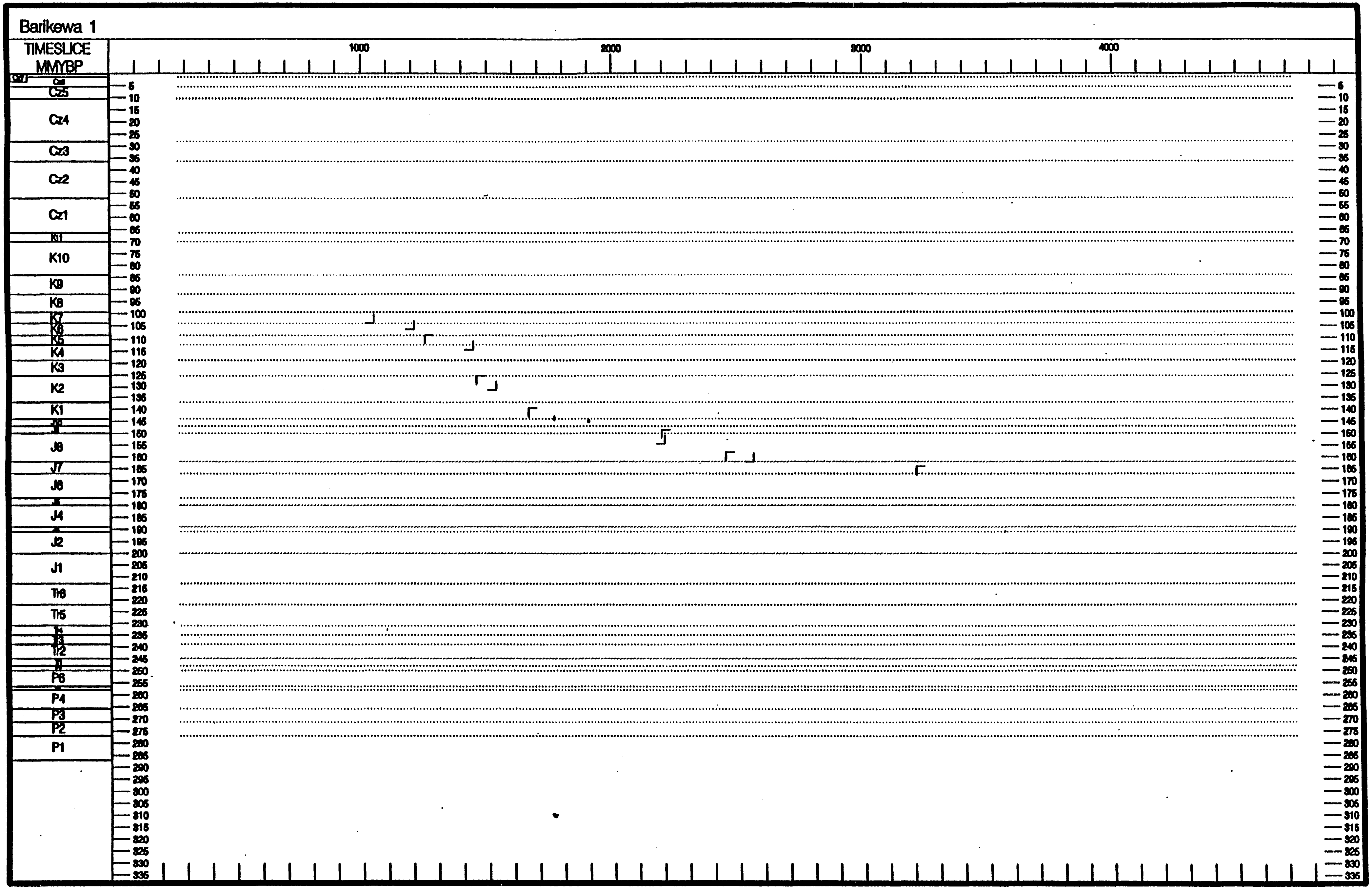

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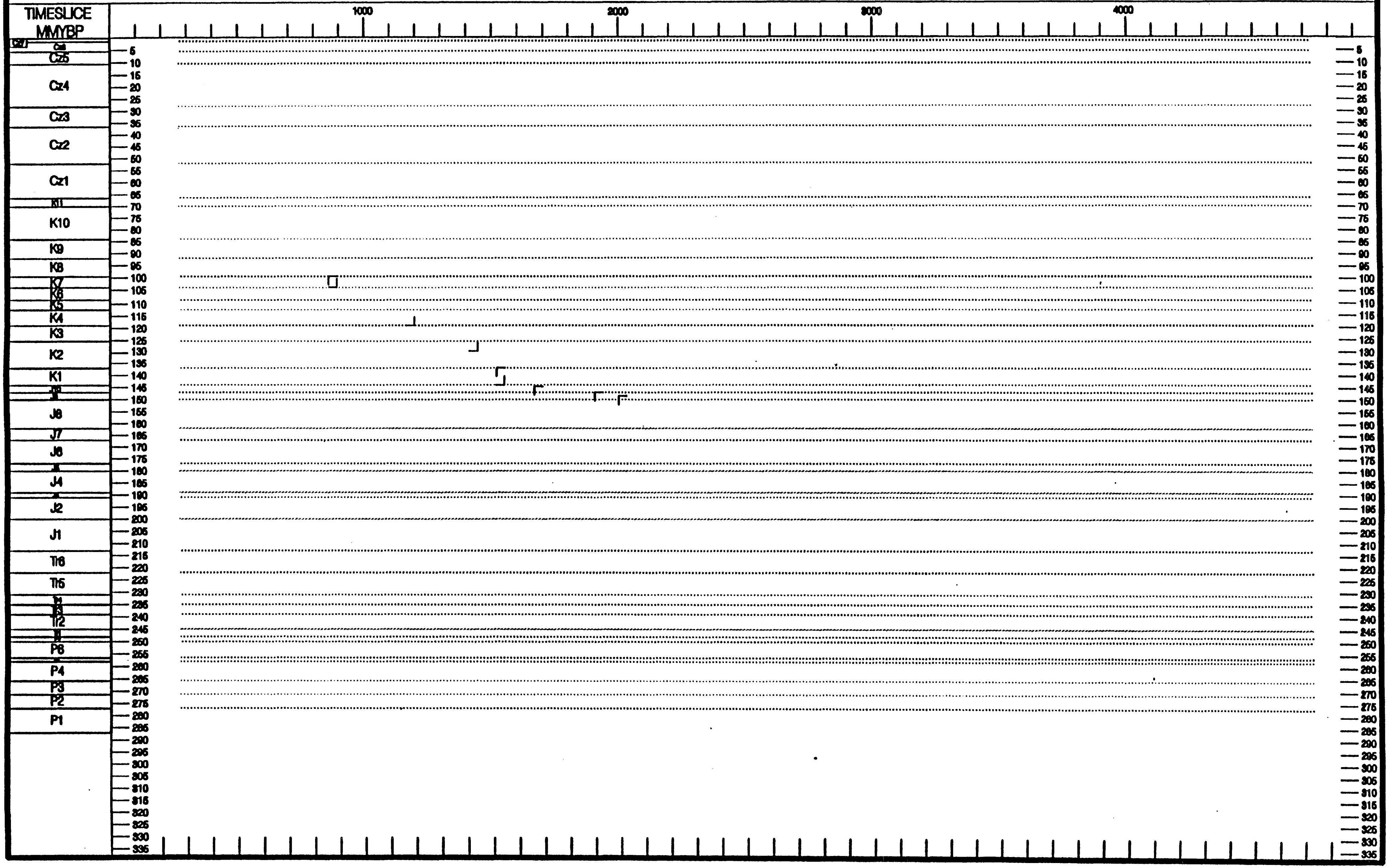

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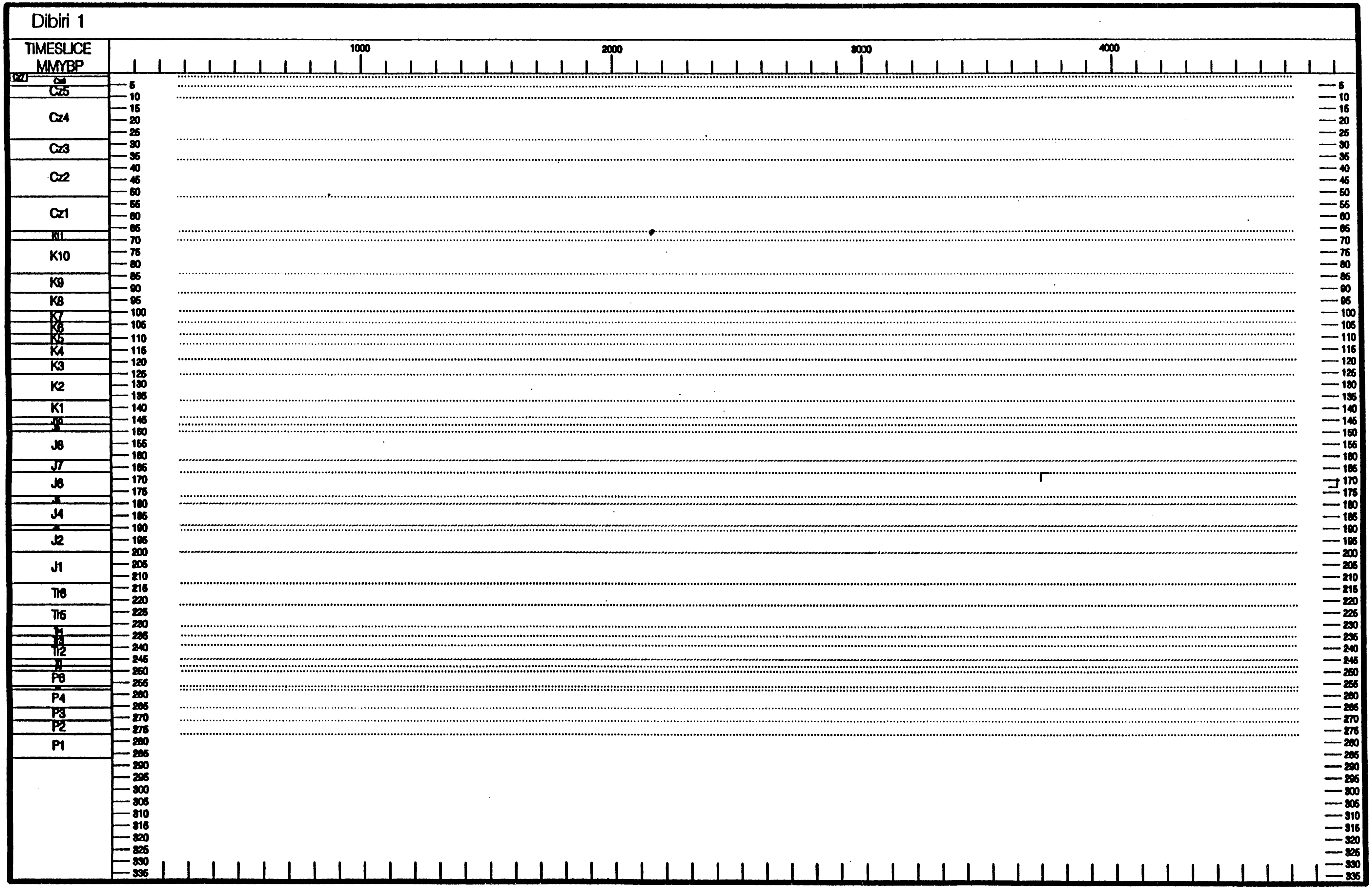
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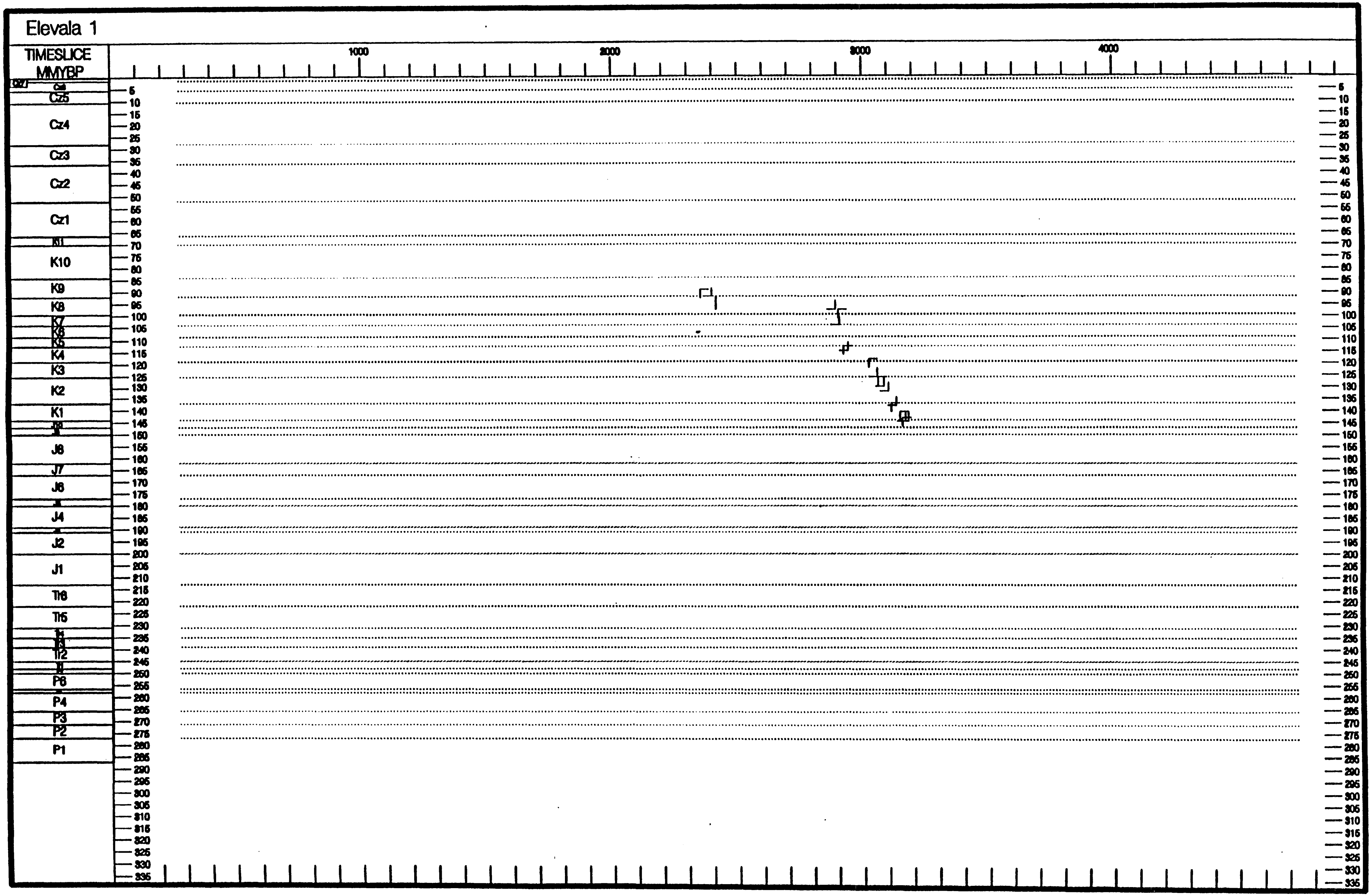

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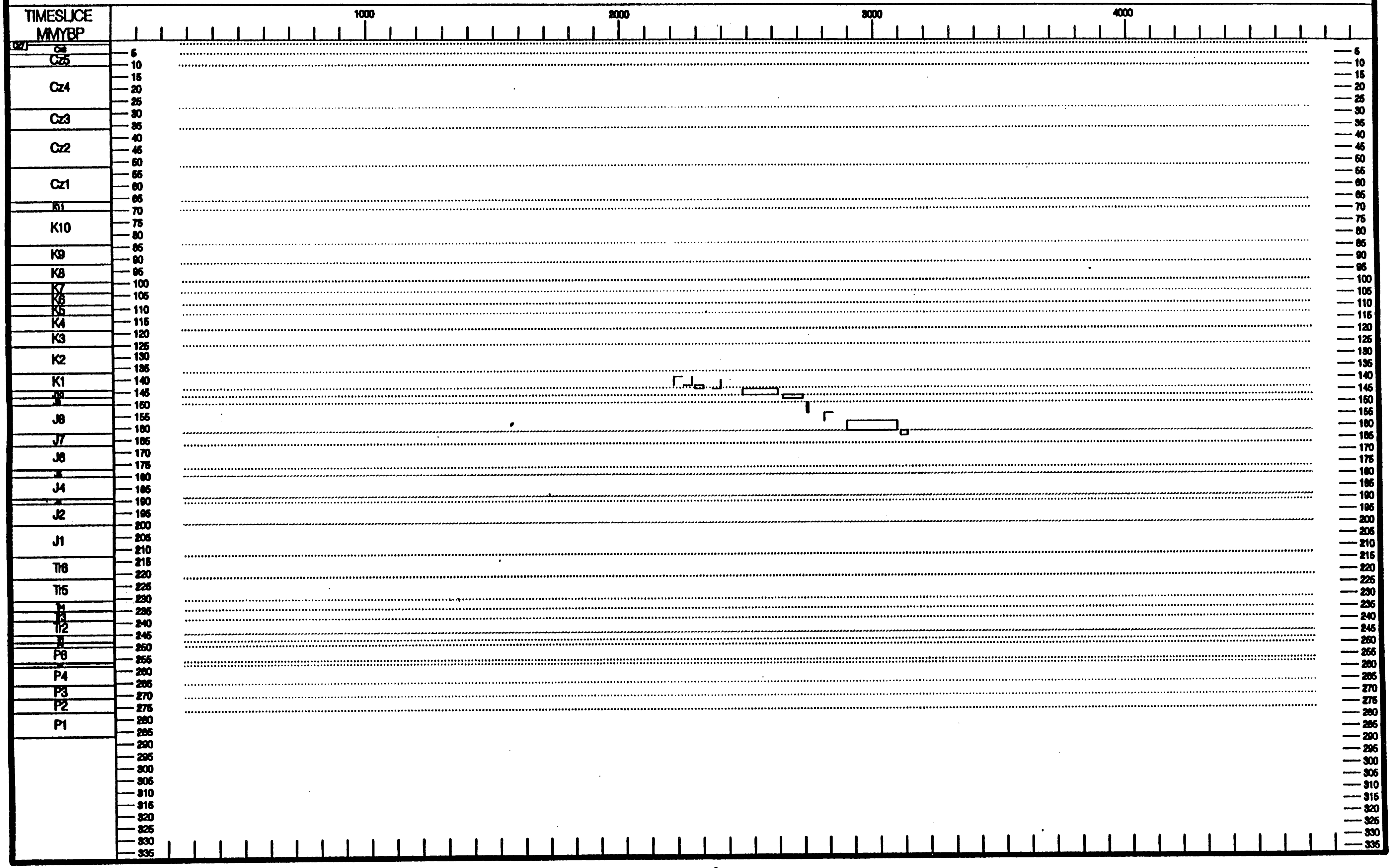

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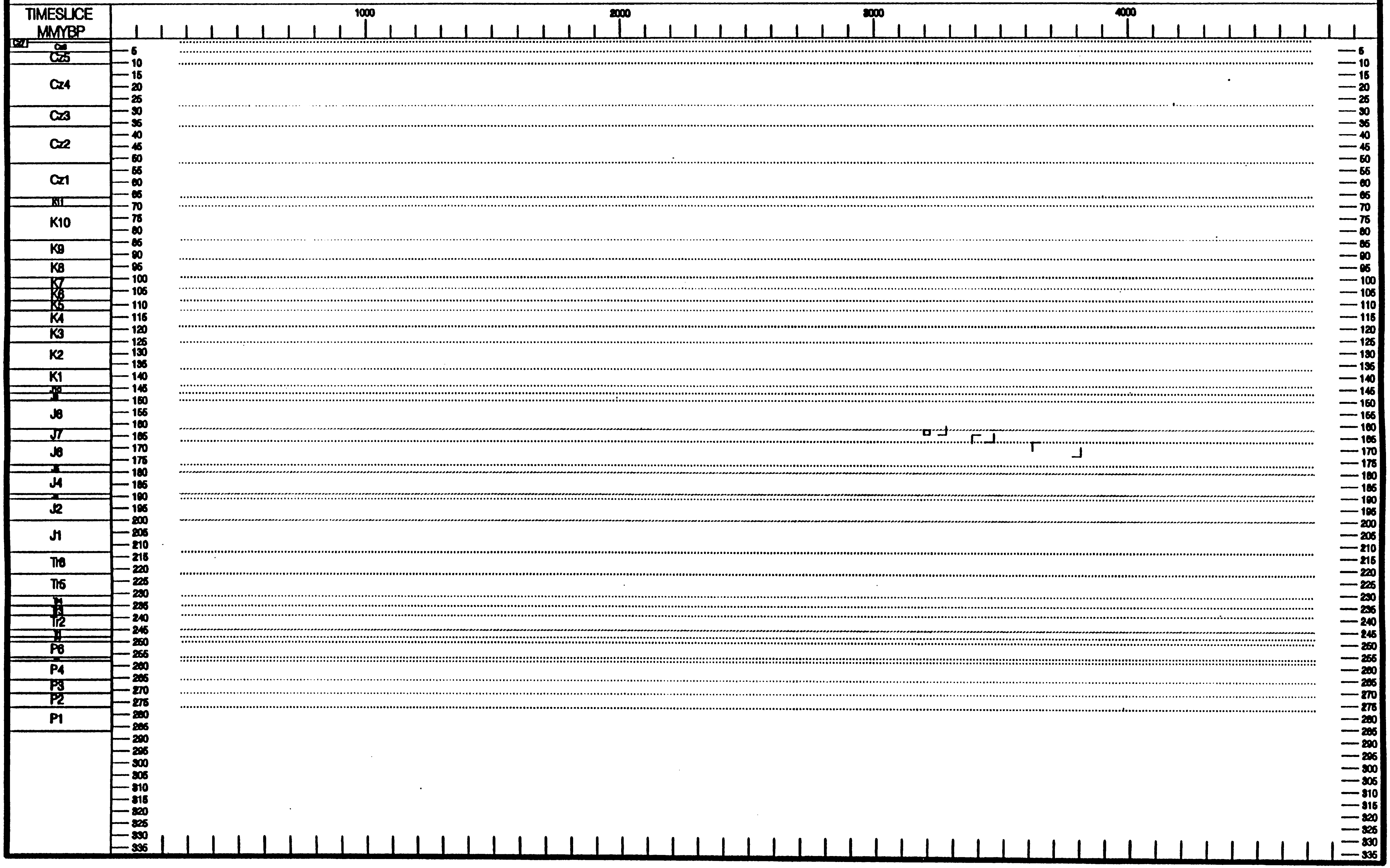

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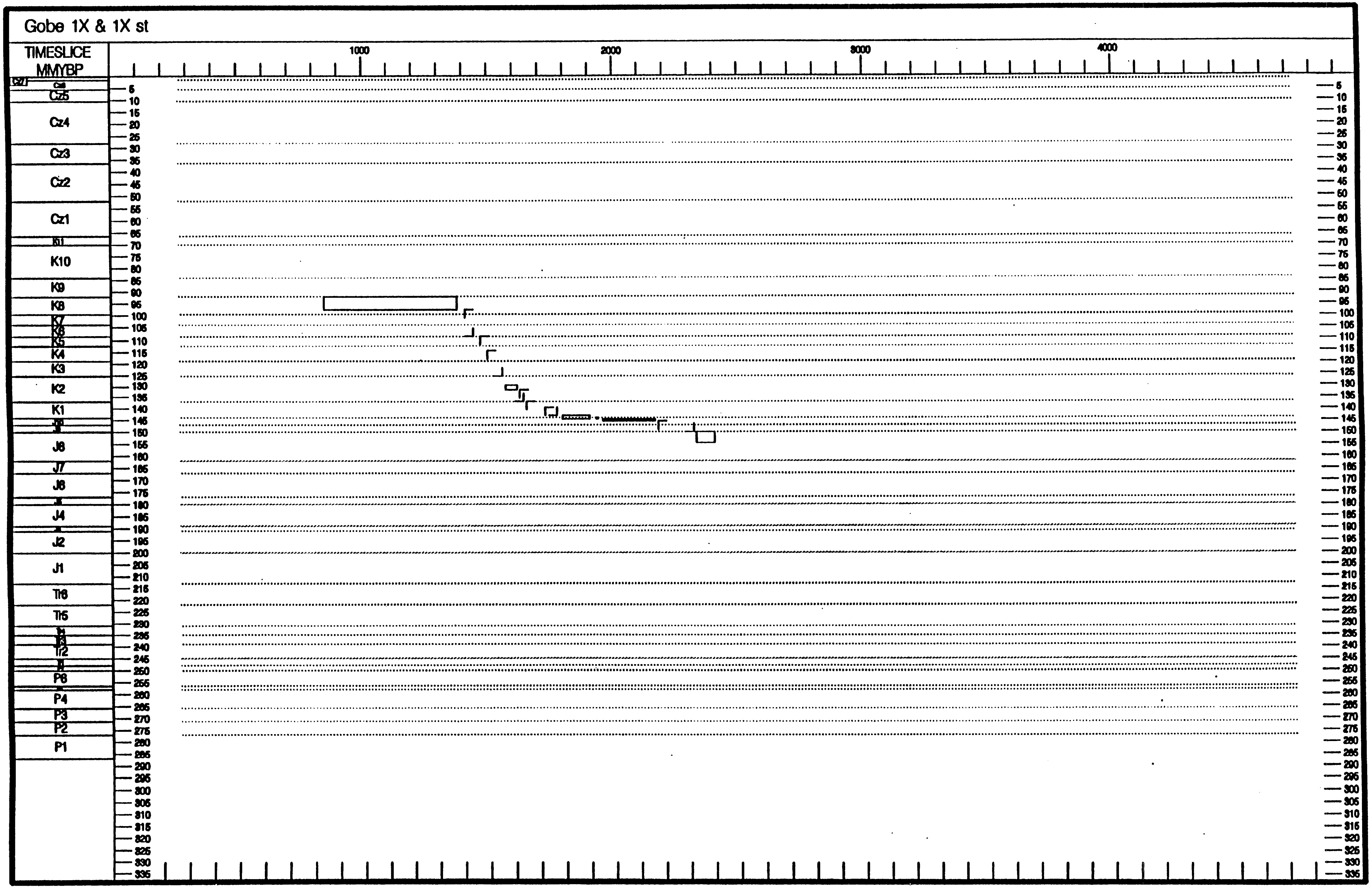

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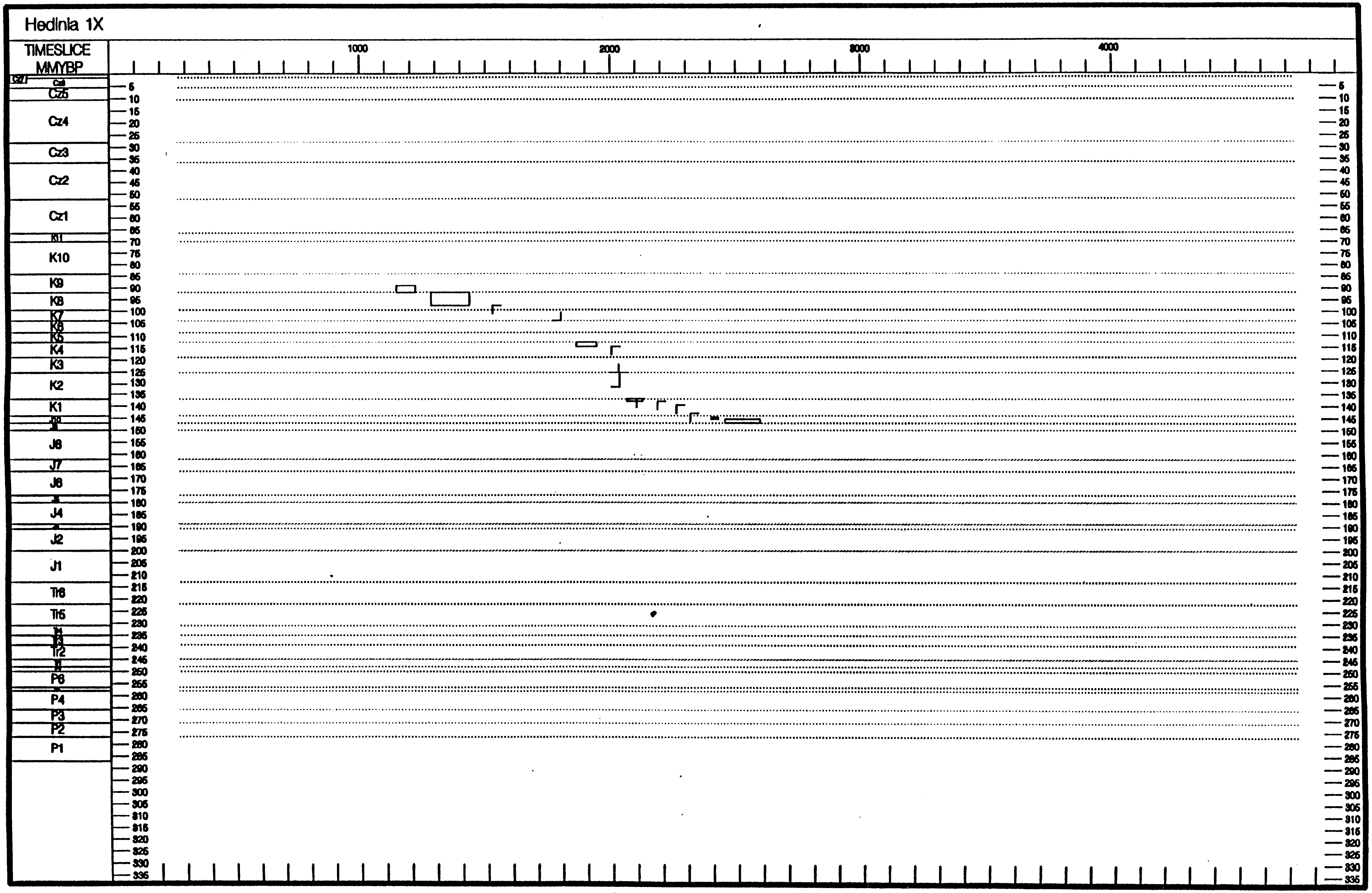
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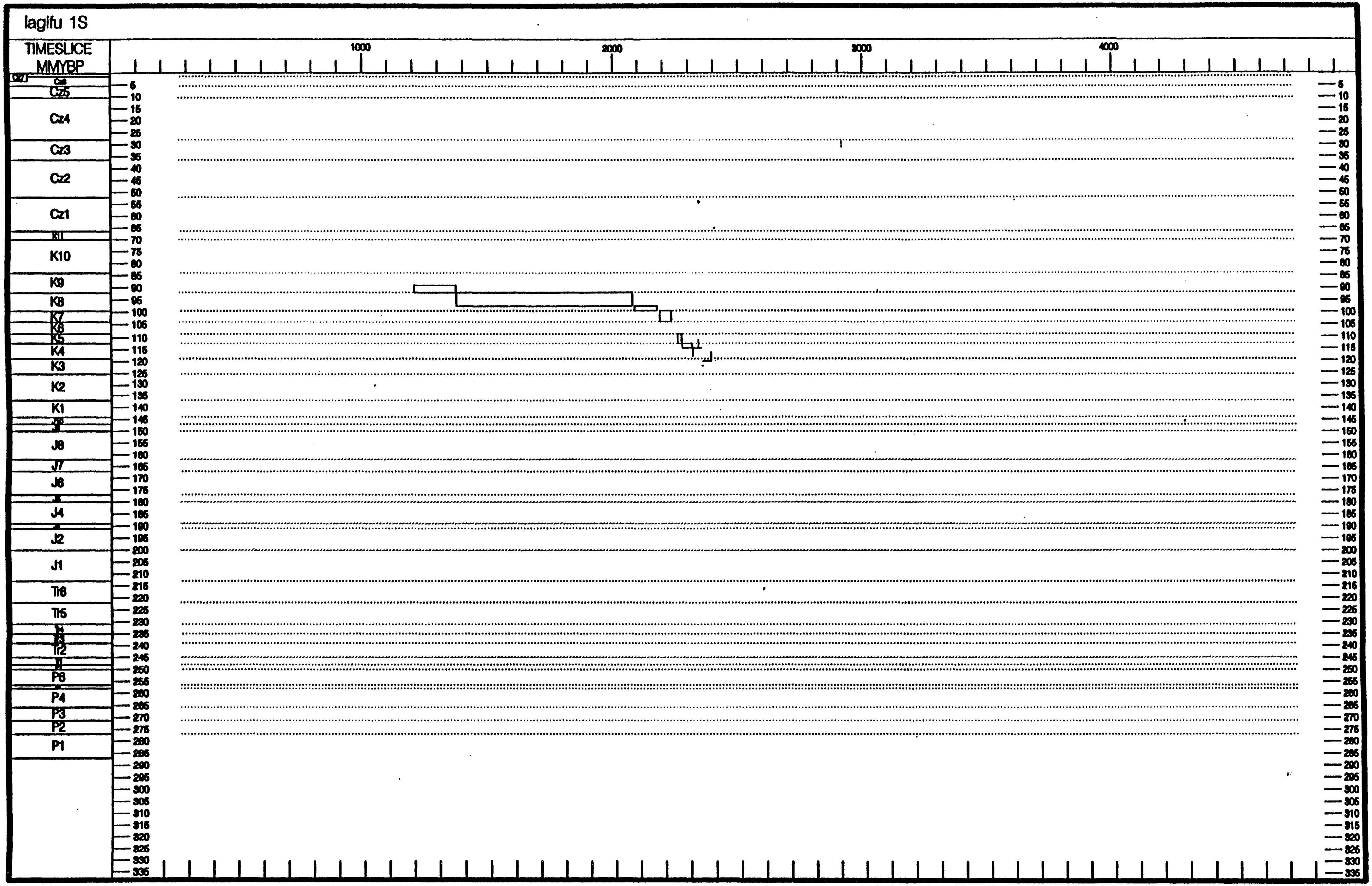

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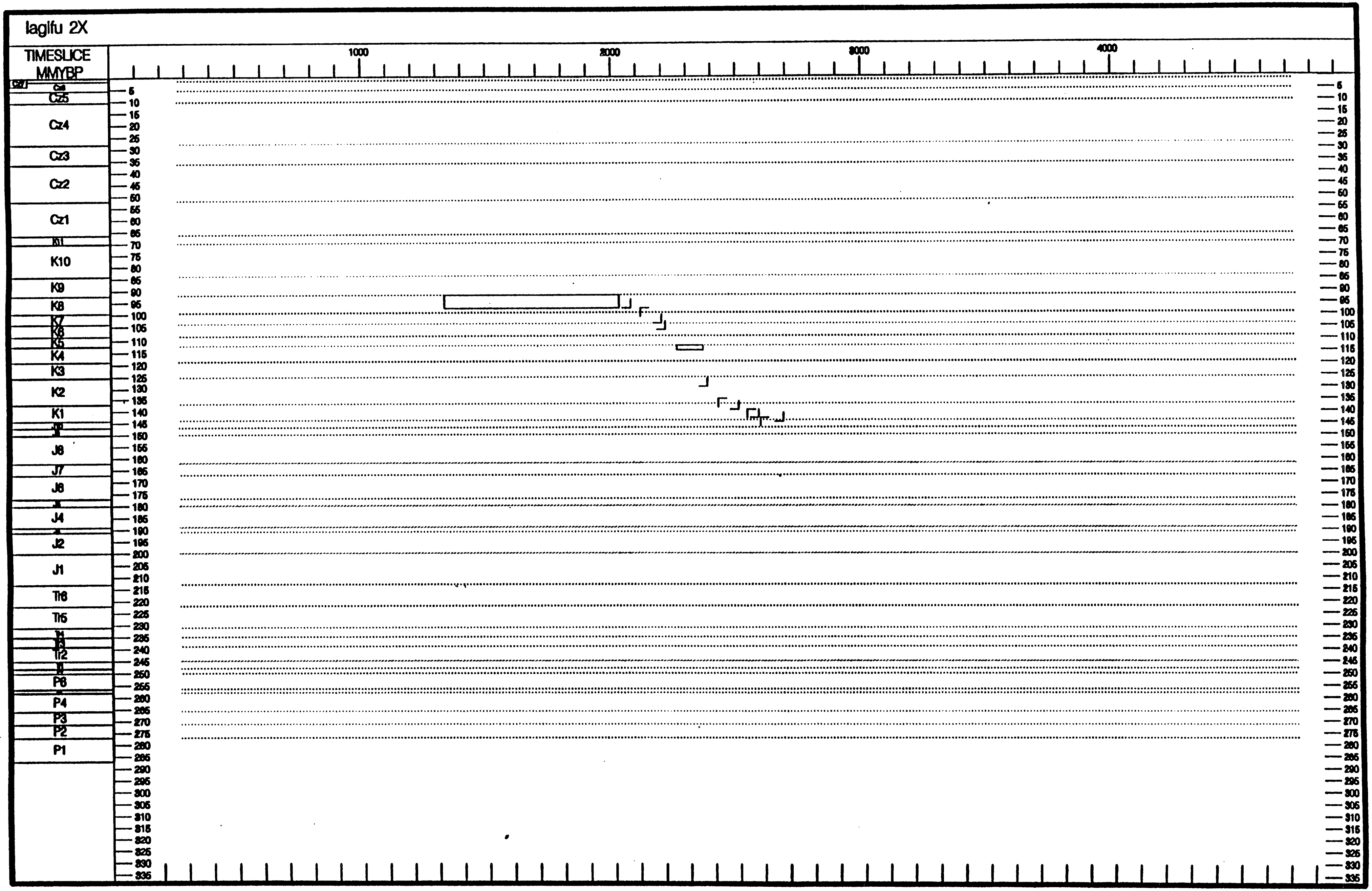
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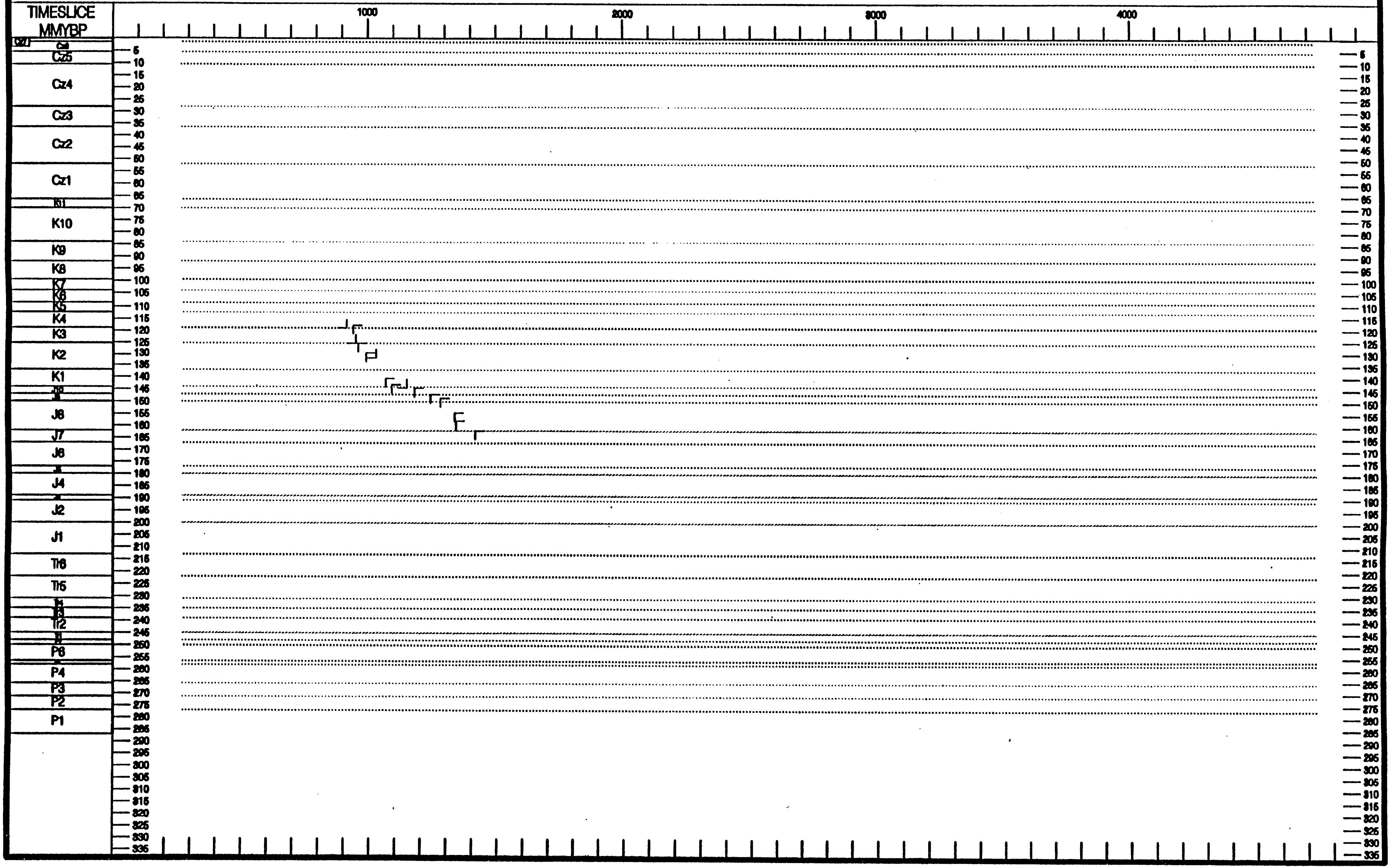

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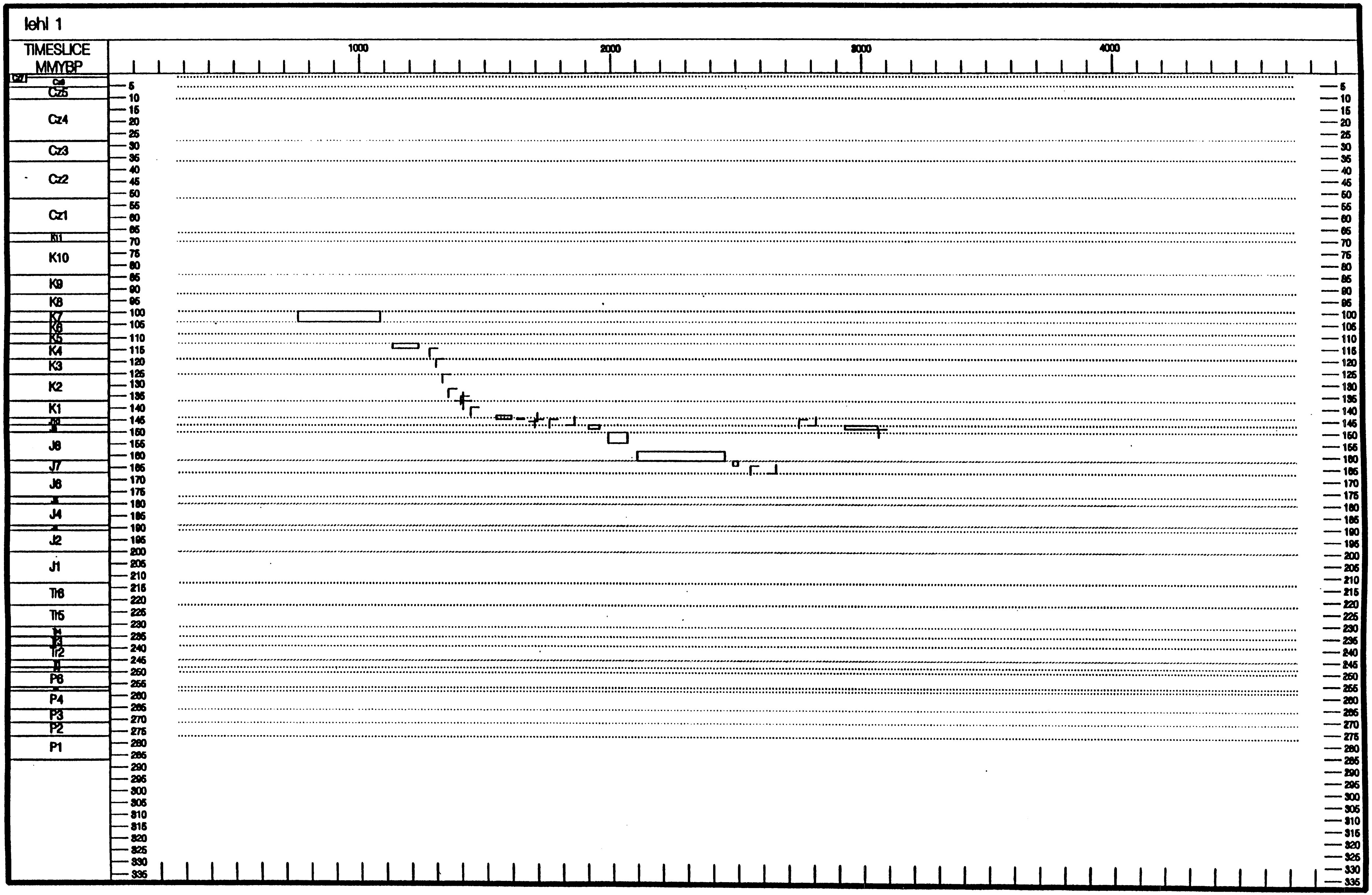

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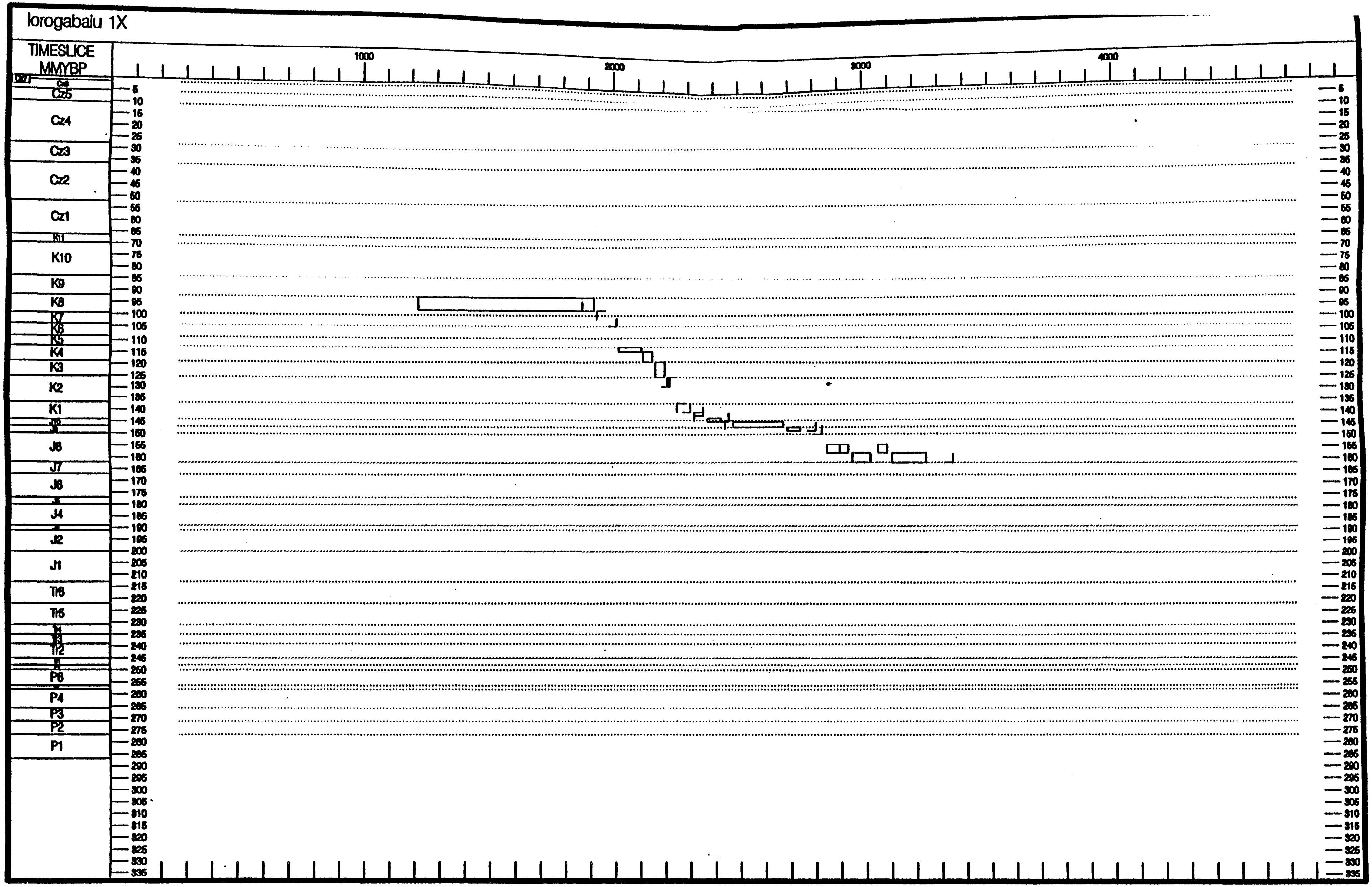

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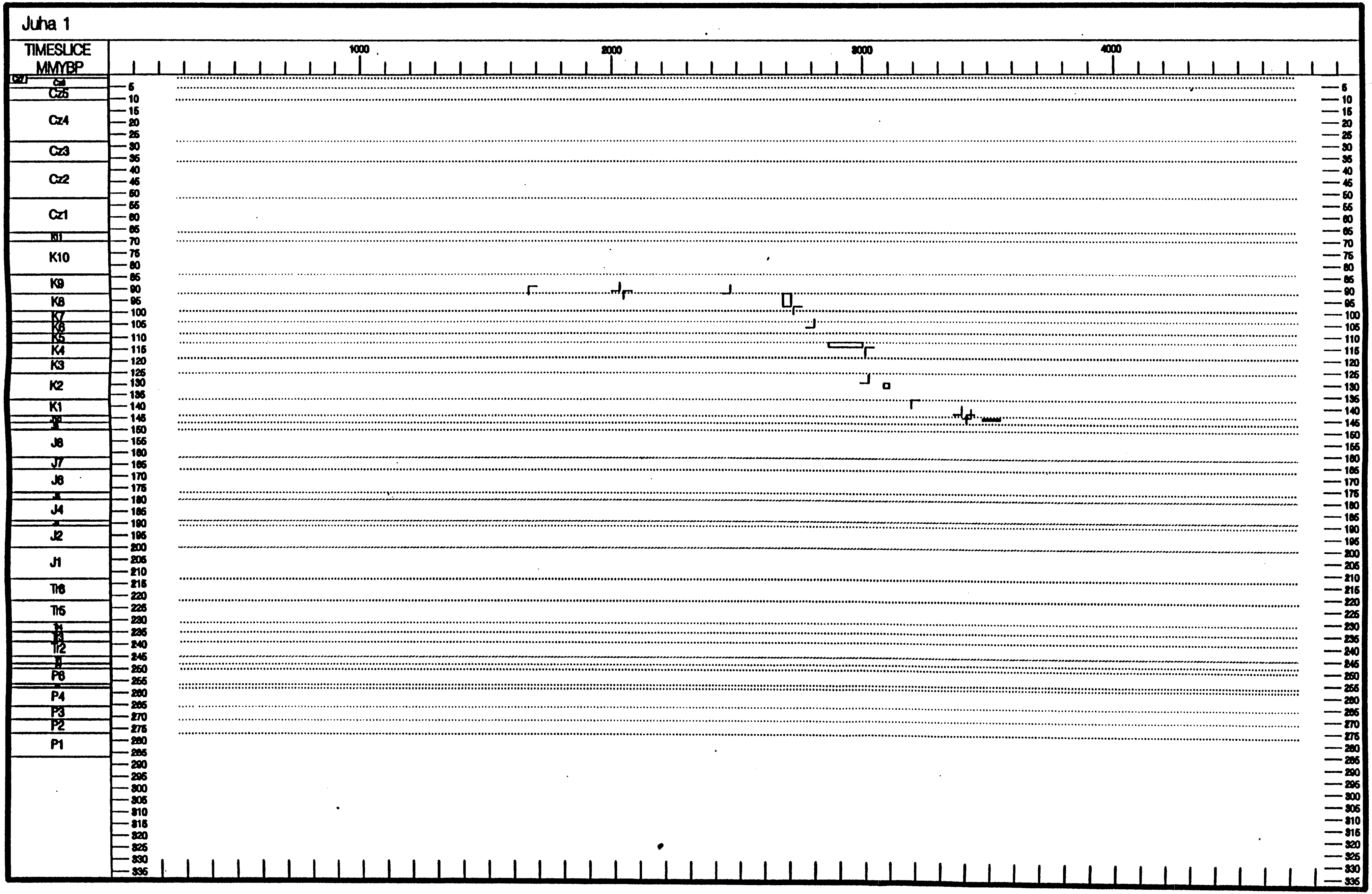

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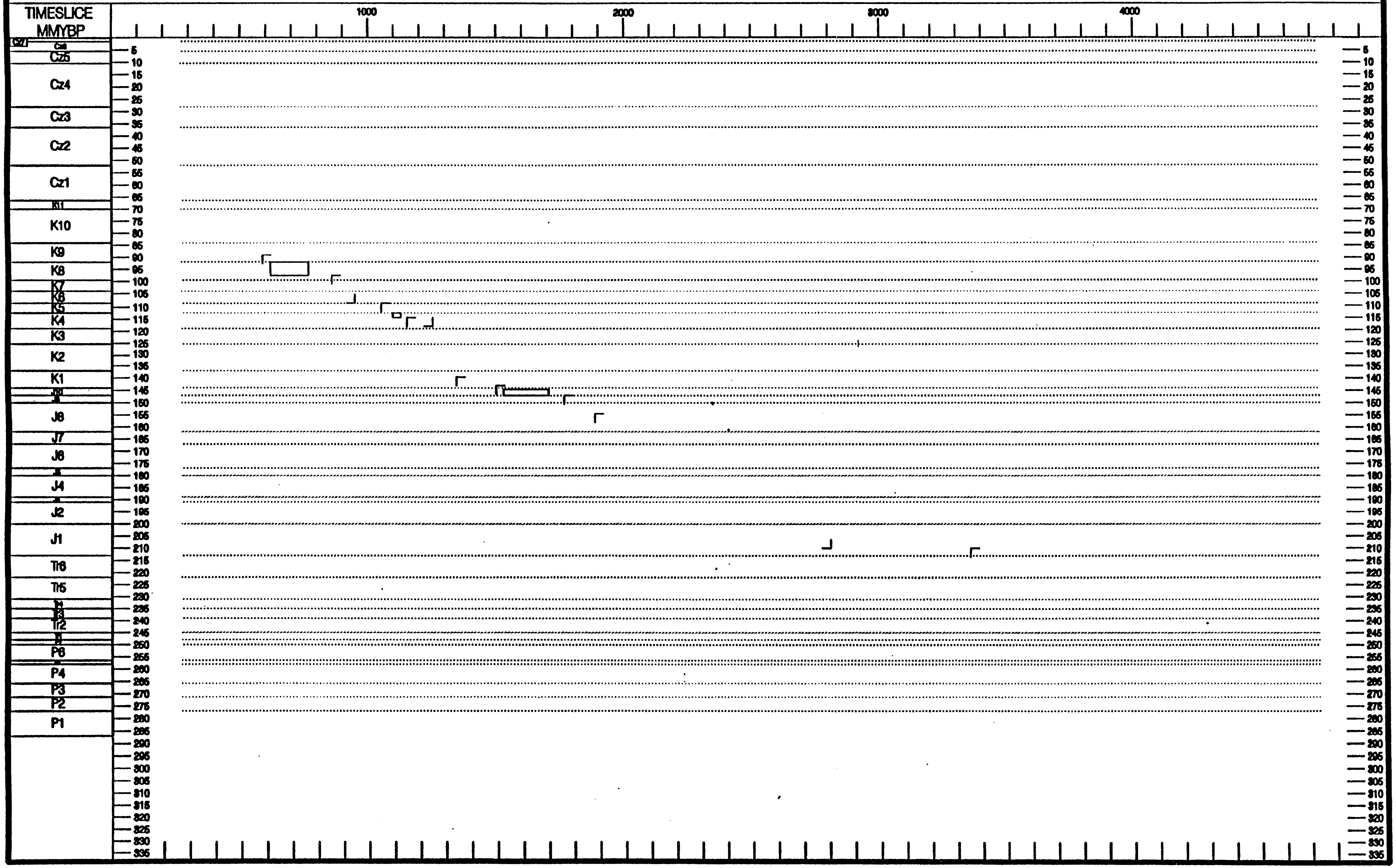

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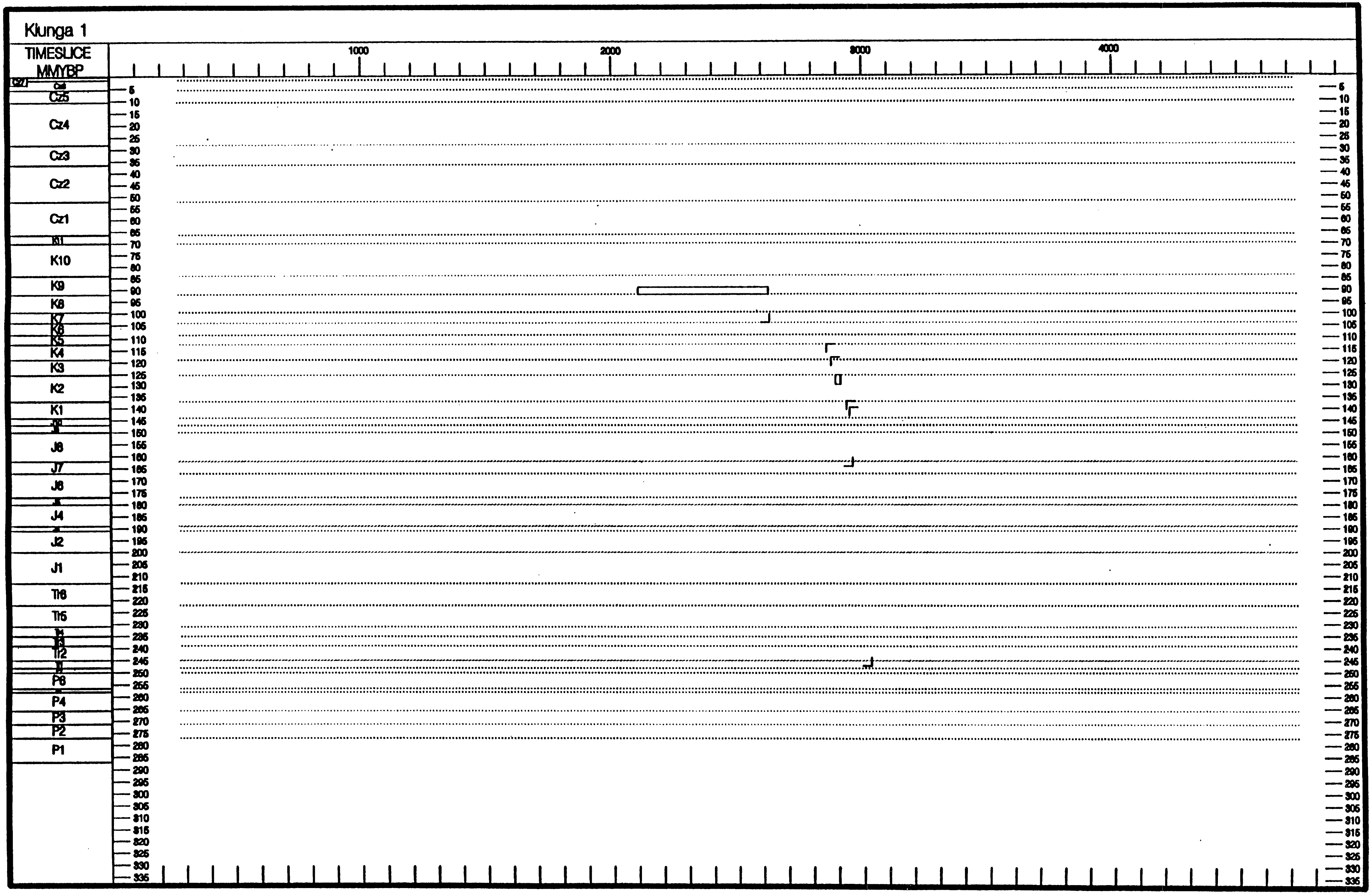

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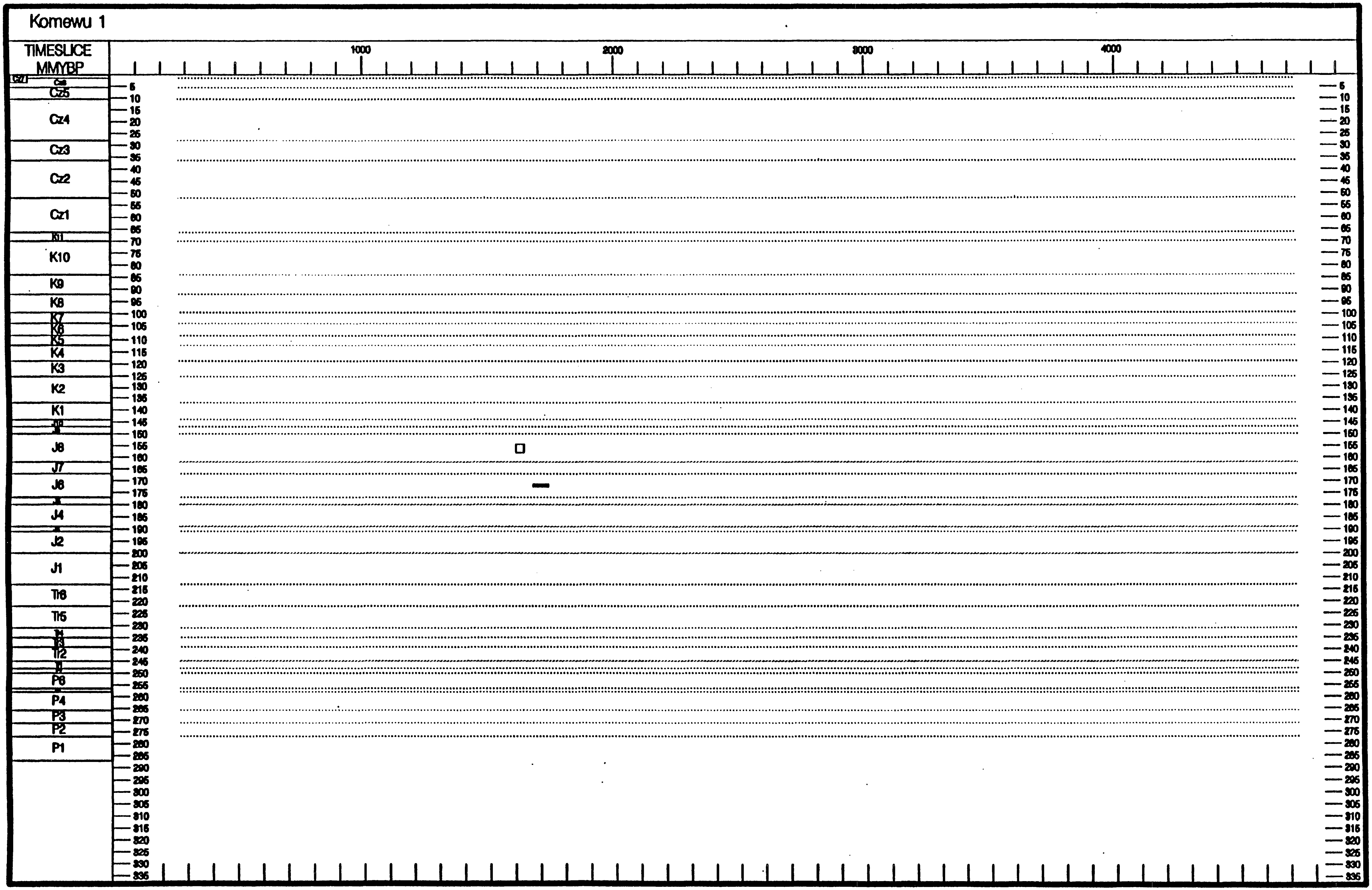

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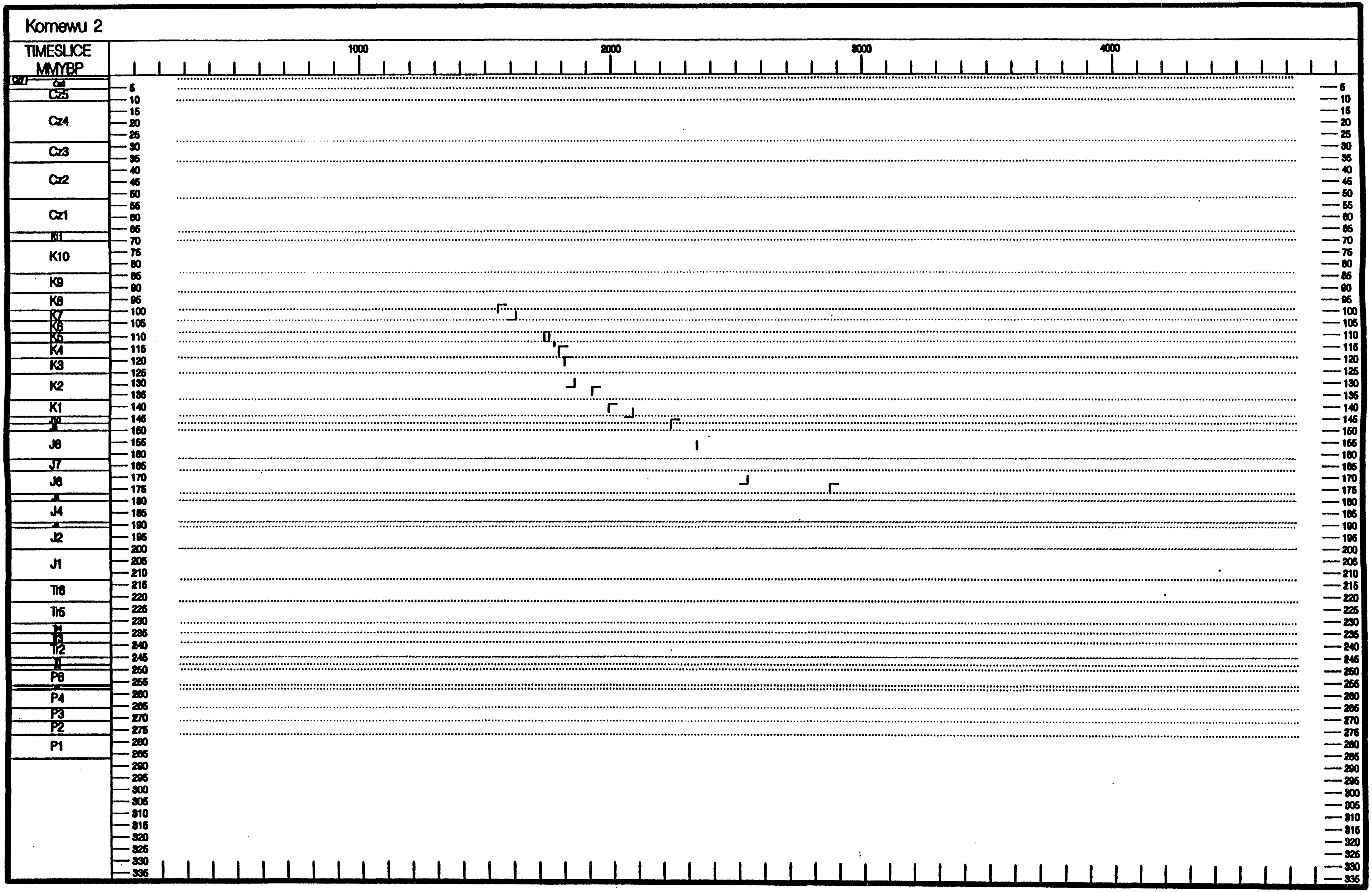
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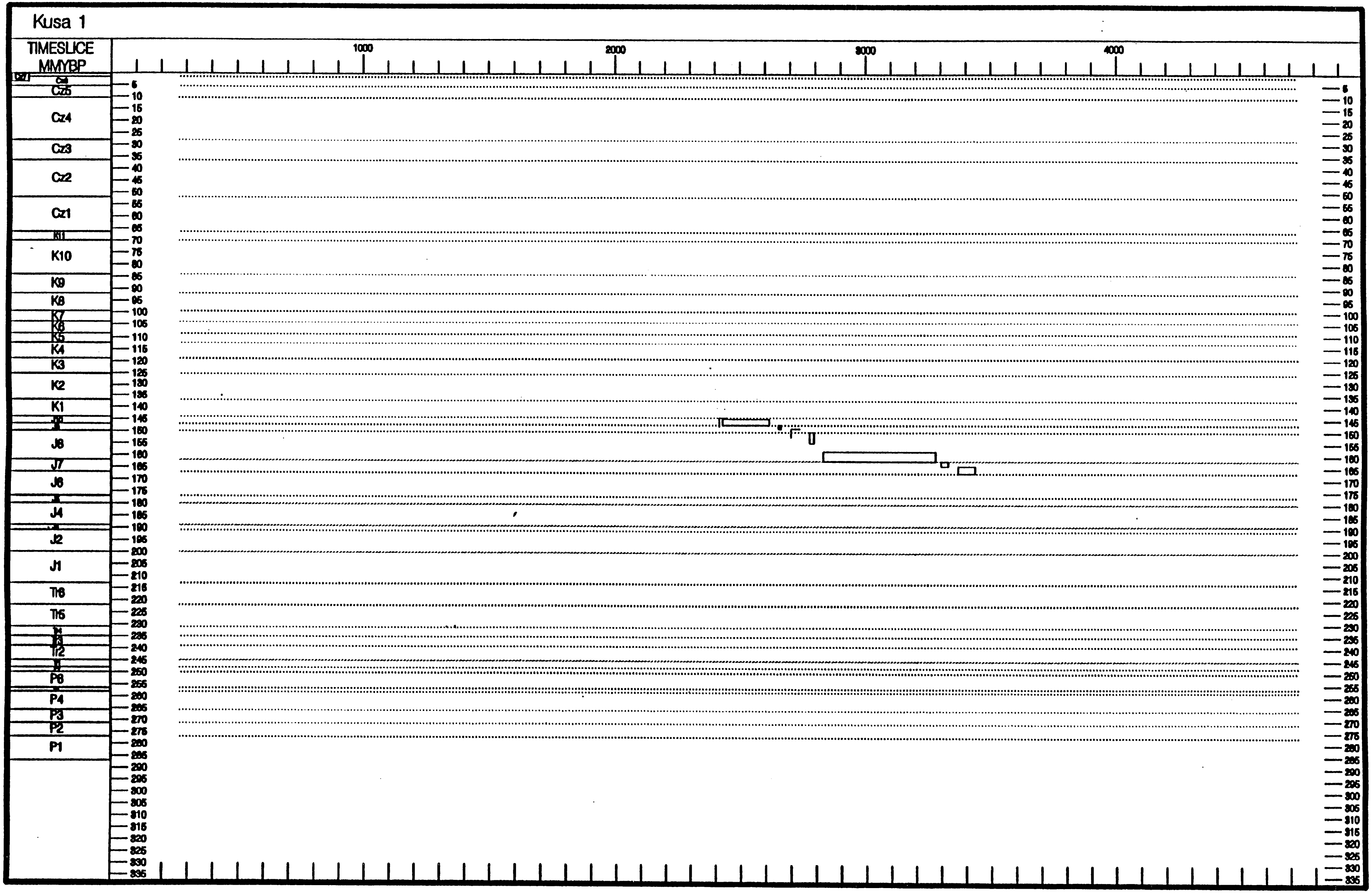
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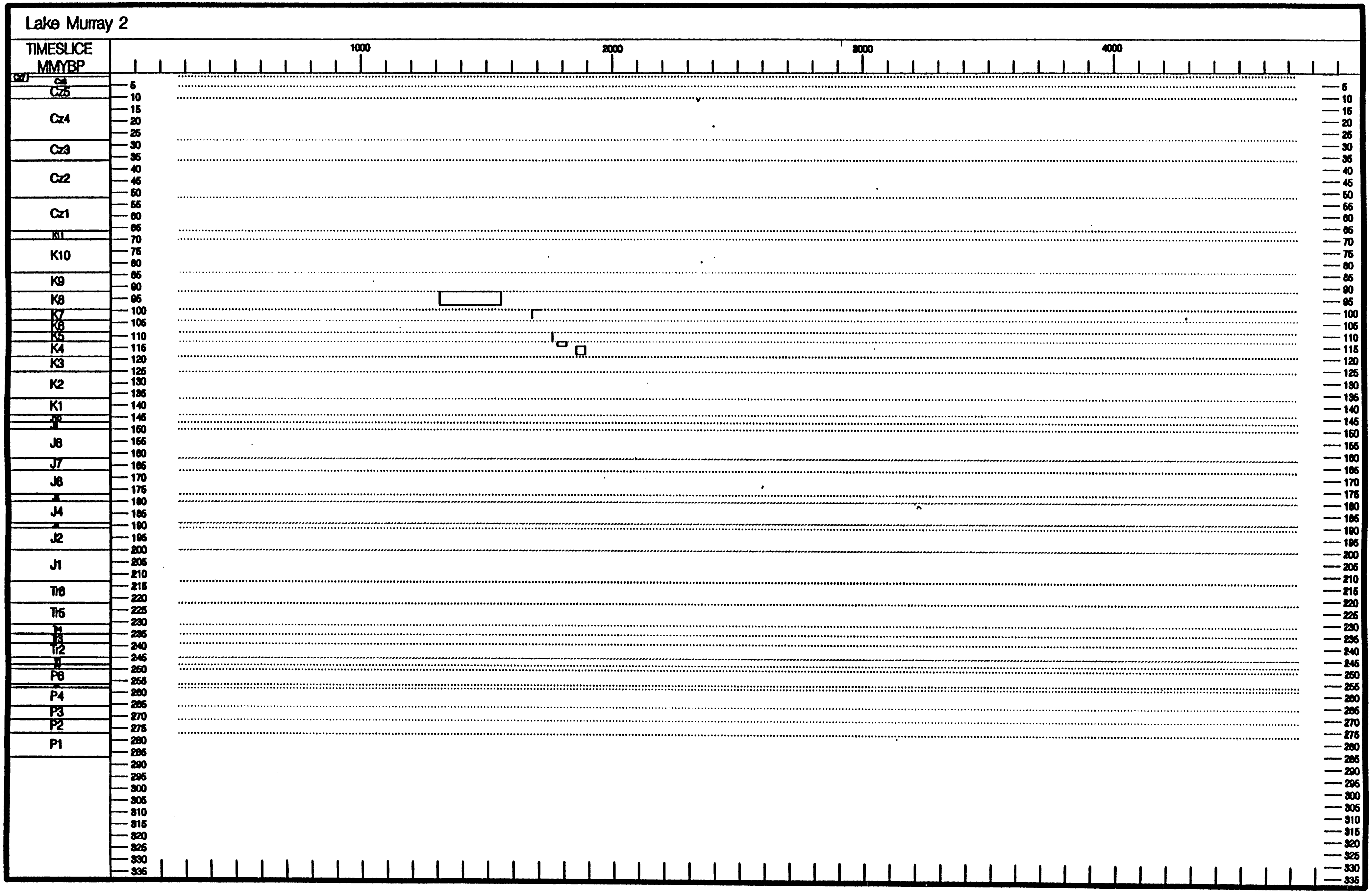

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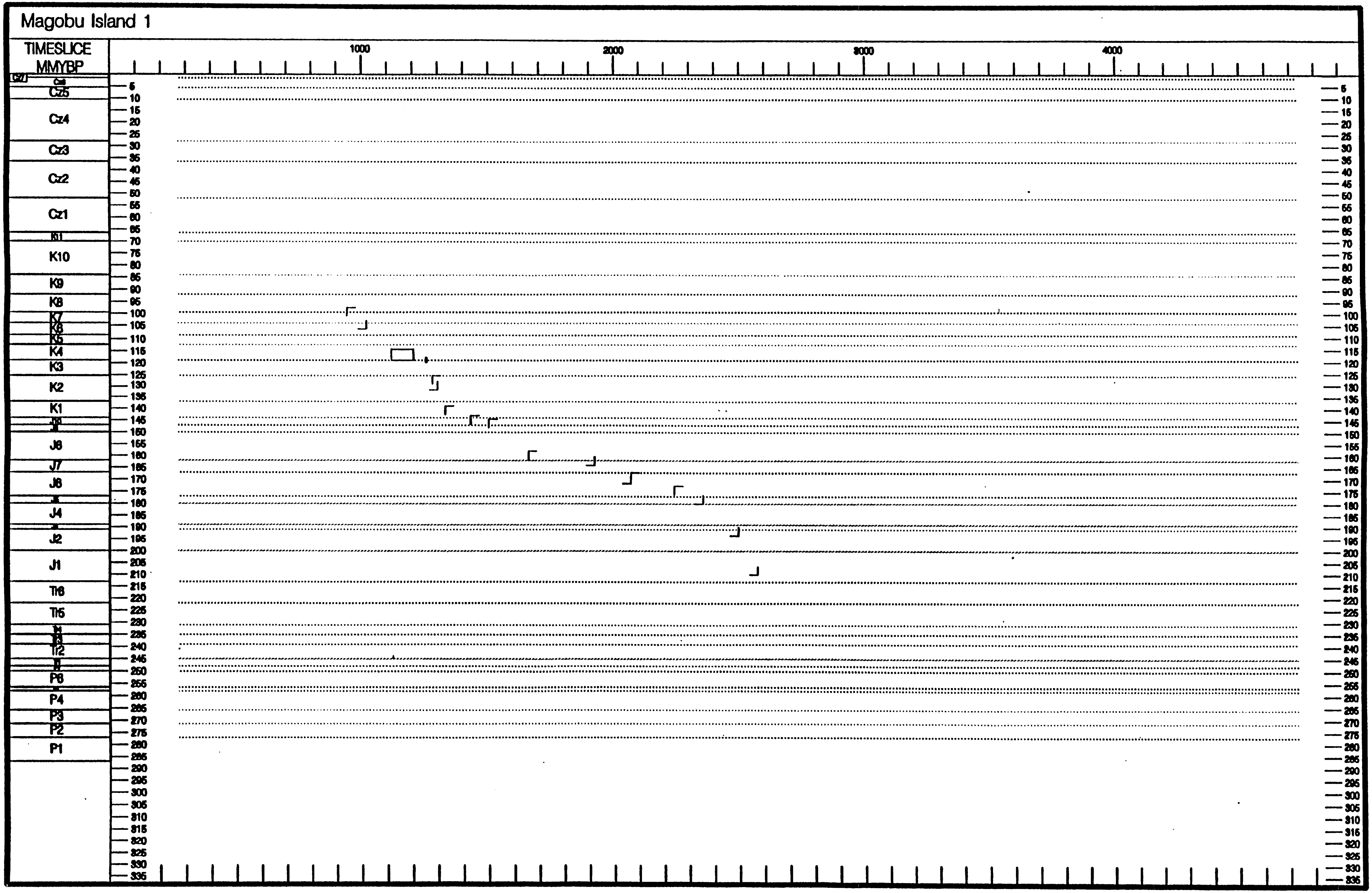

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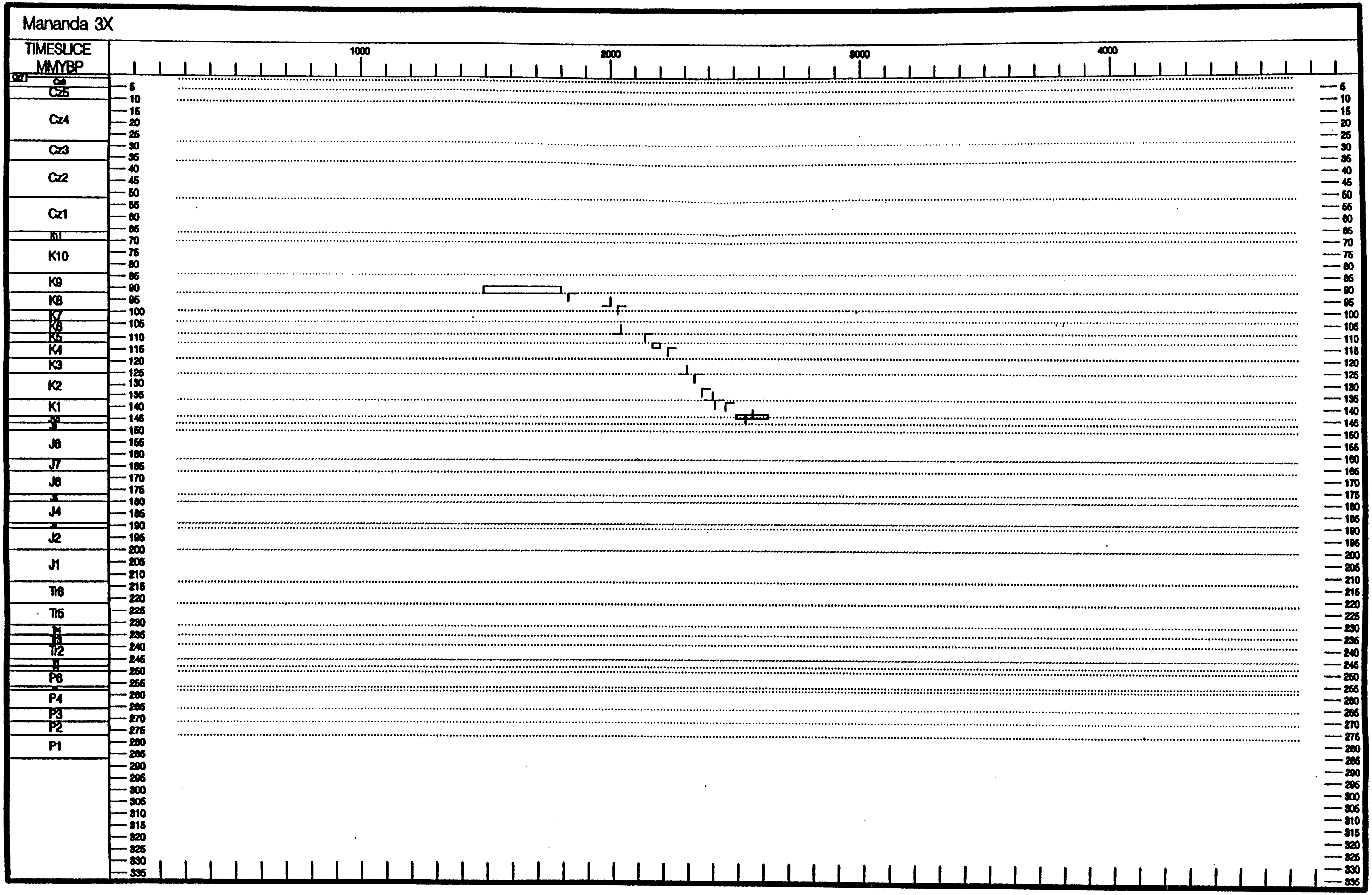

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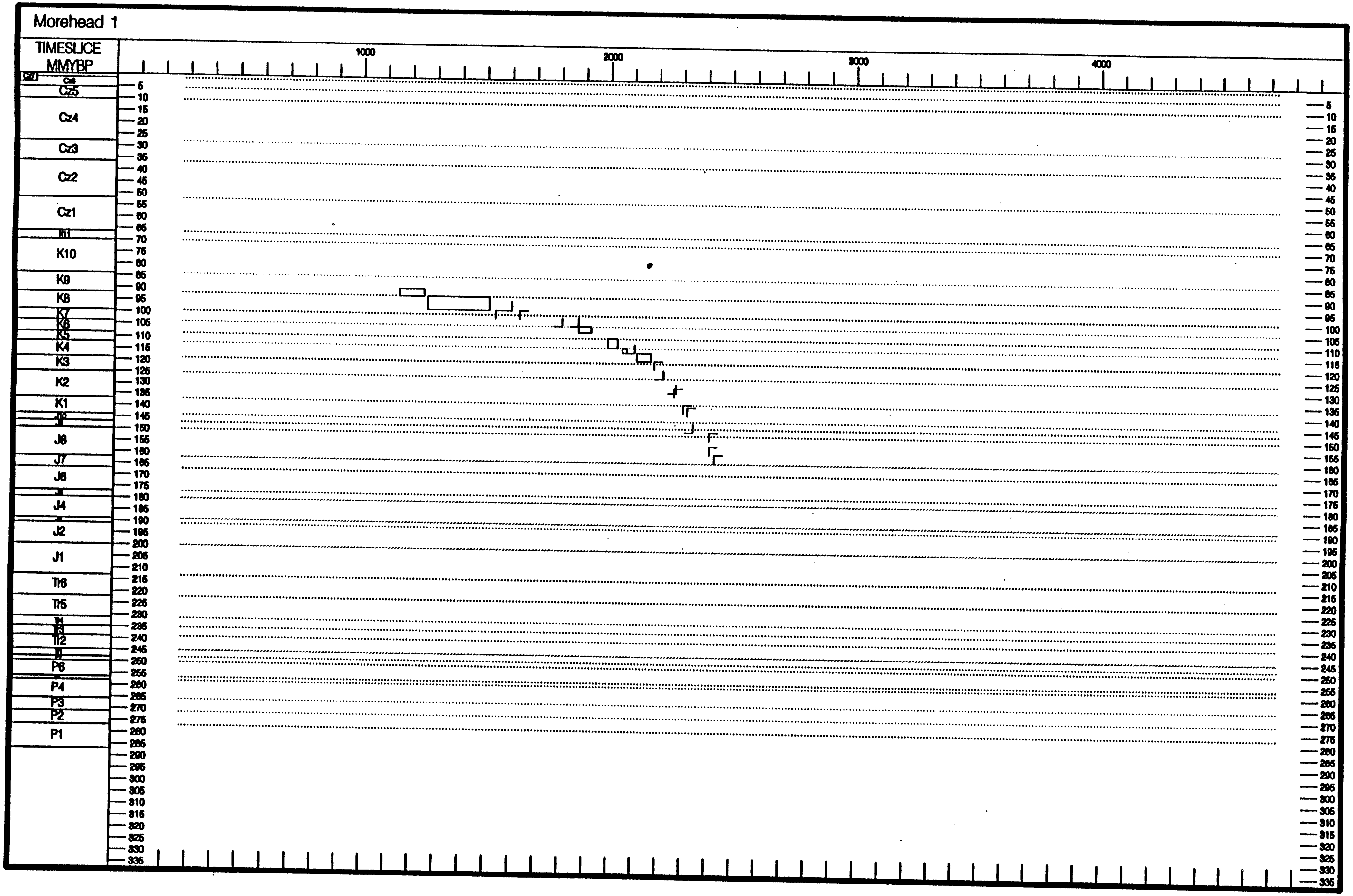
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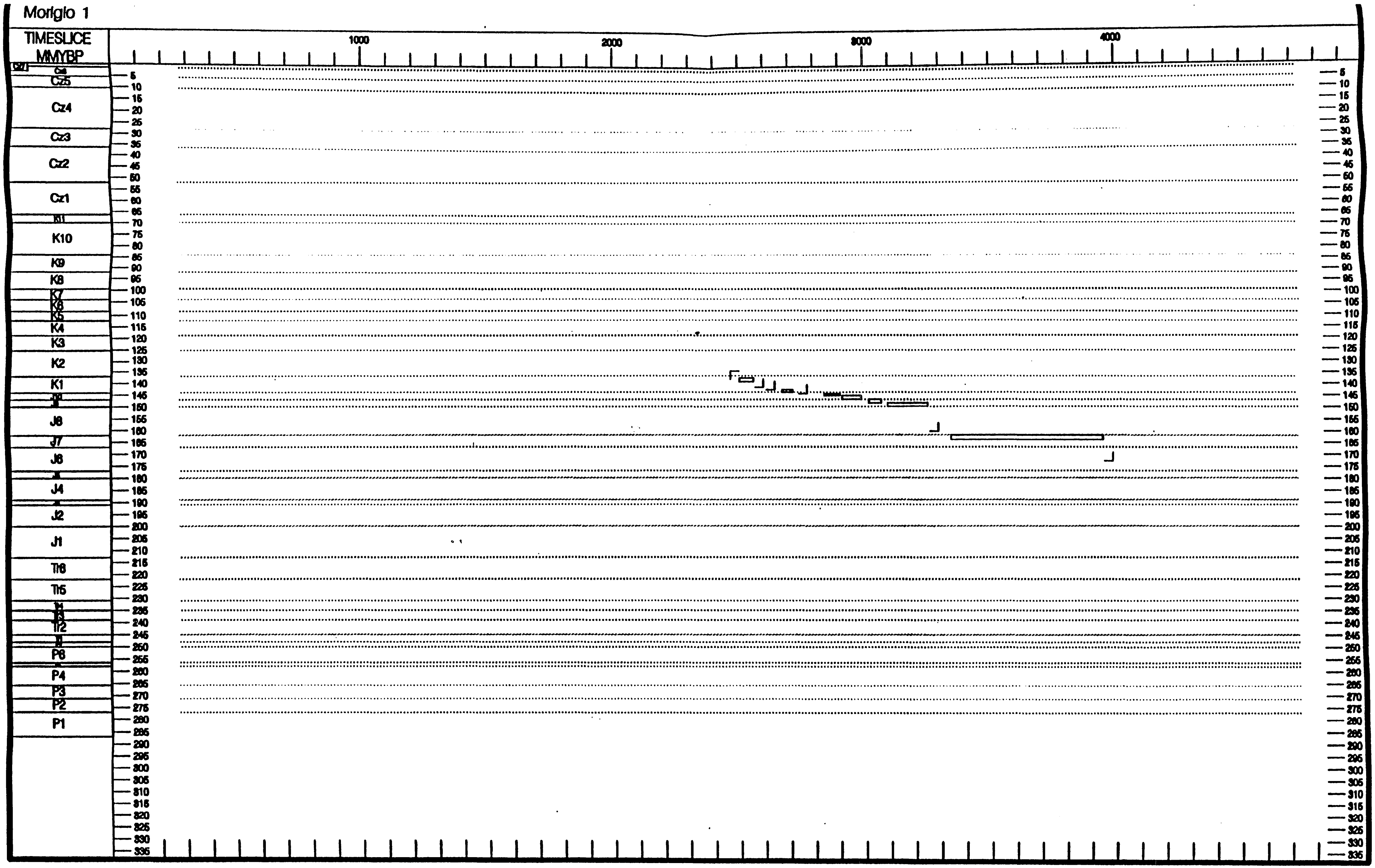

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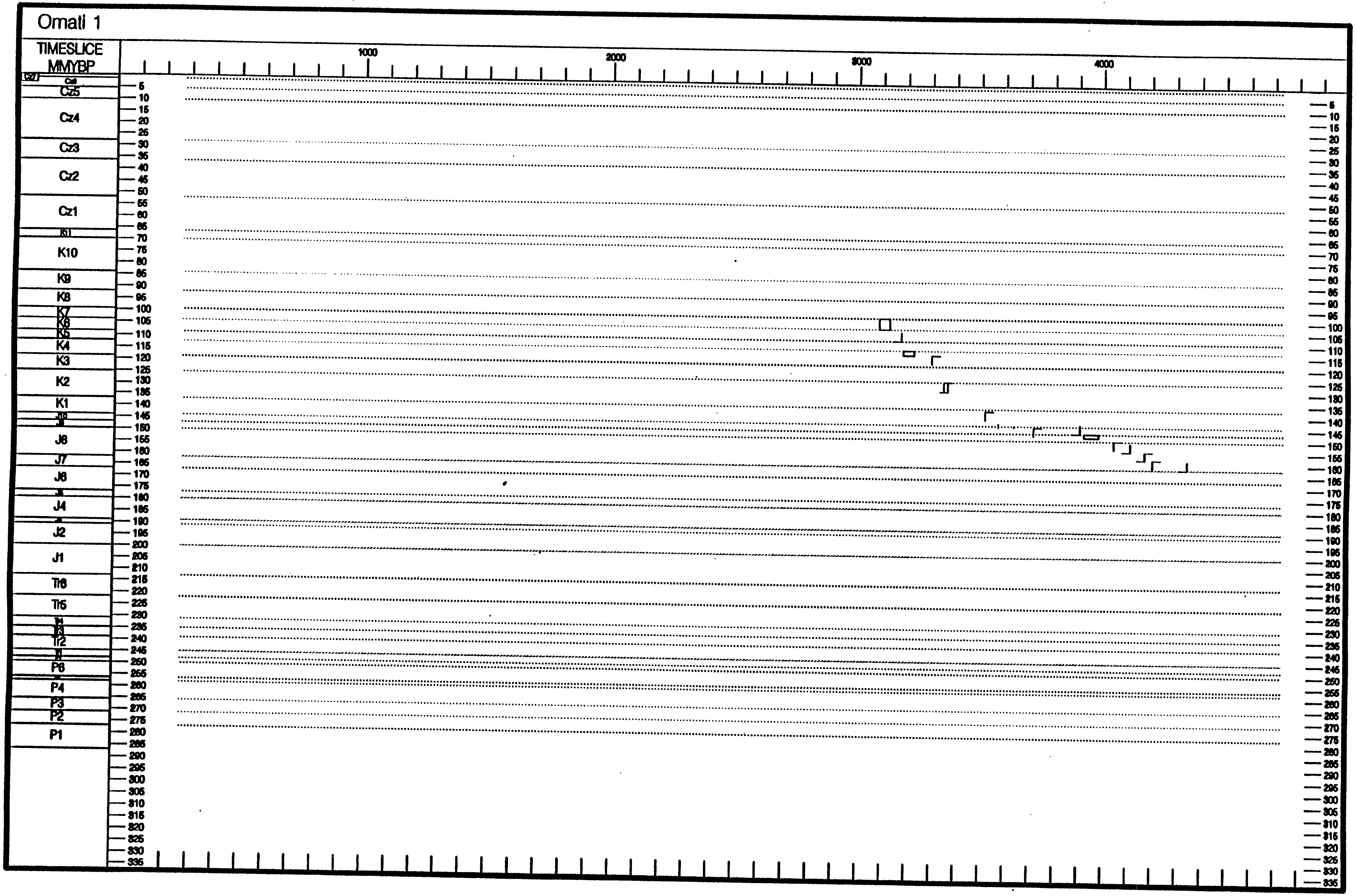

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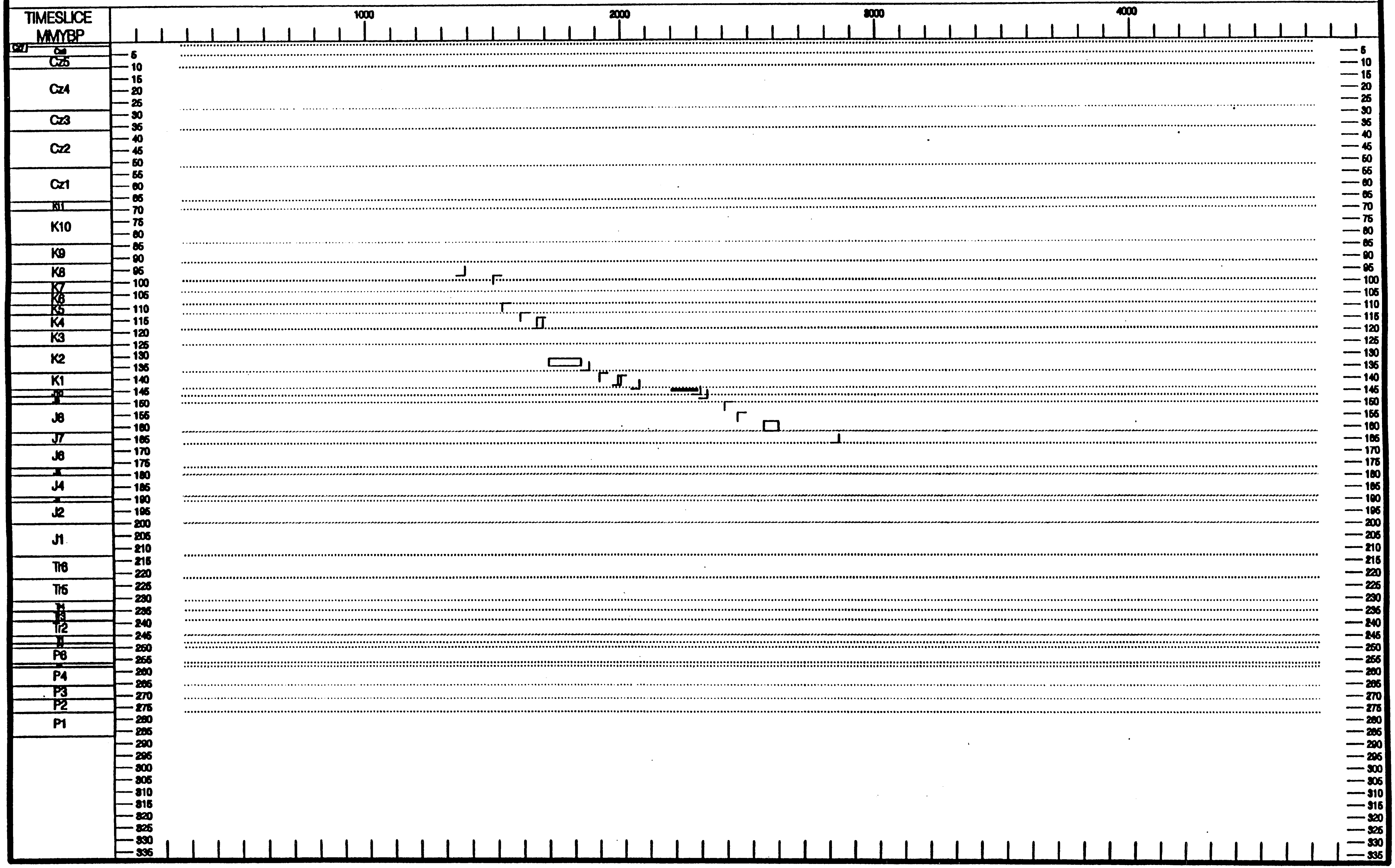
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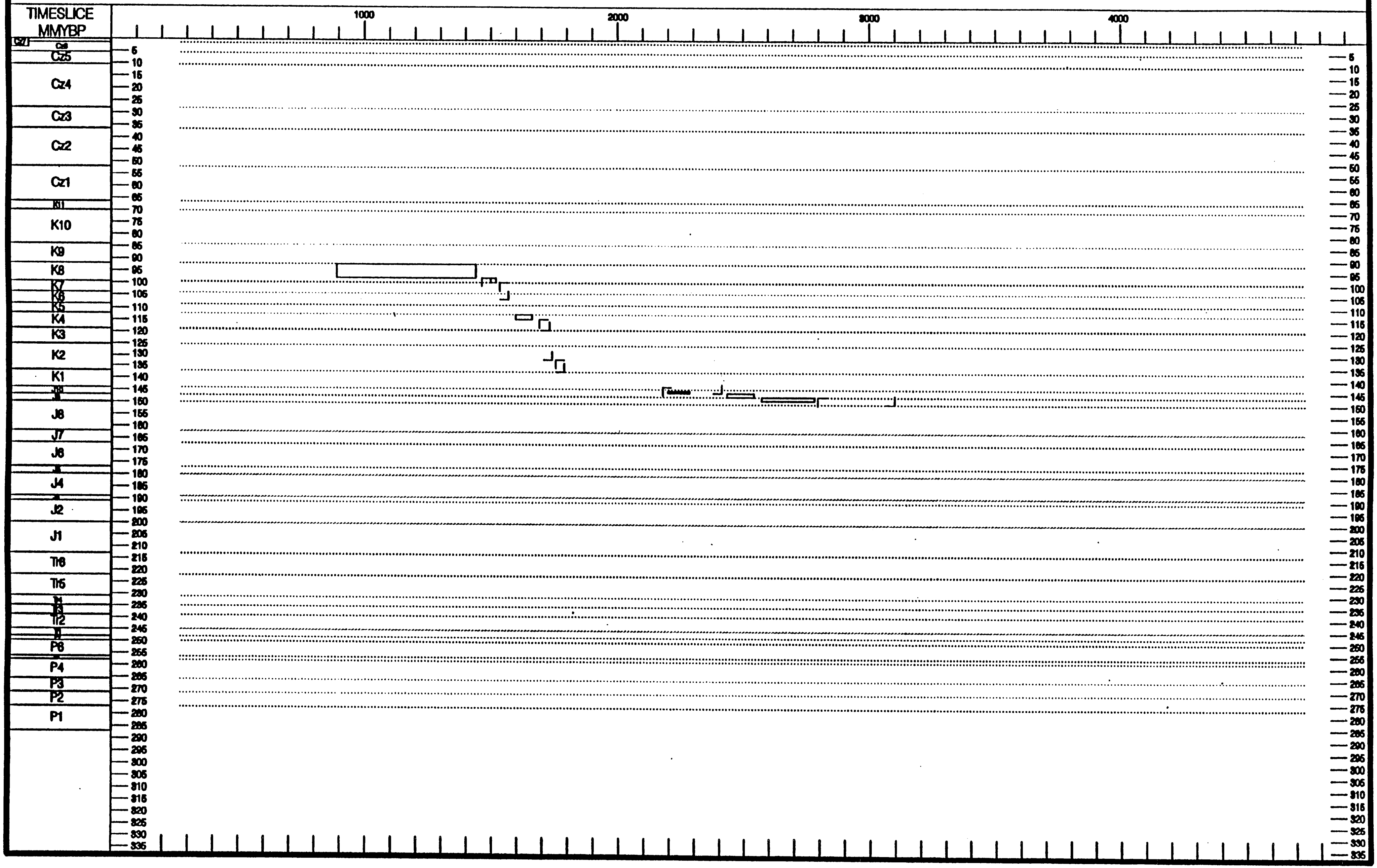

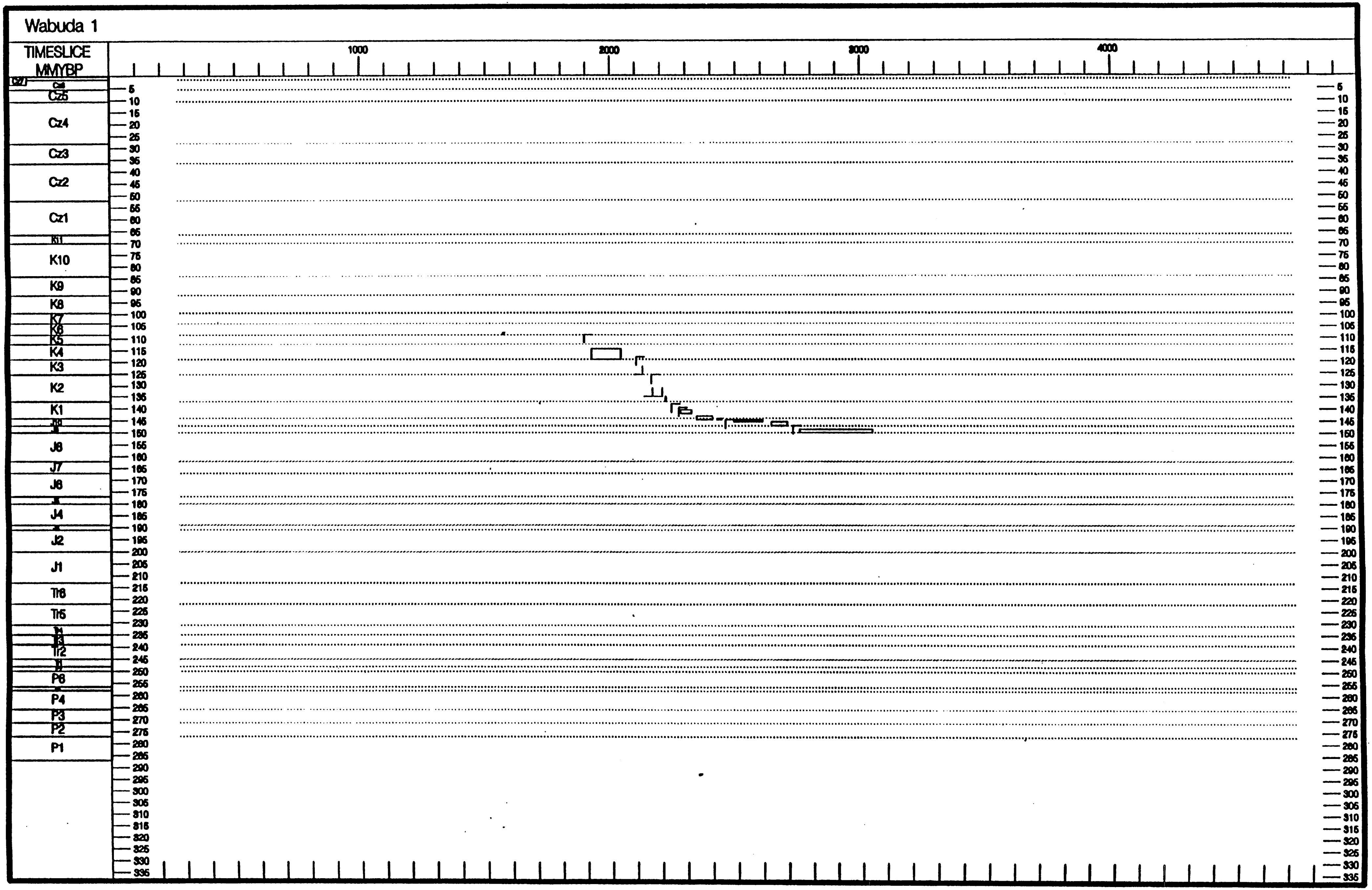
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K11
K10
K9
K8
K7
K6
K5
K4
K3
K2
K1
J8
J6
J7
J6
J4
J2
J1
Tr6
Tr5
Tr2
P6
P4
P3
P2
P1

AGSO

AUSTRALIAN GEOLOGICAL
SURVEY ORGANISATION

AUSTRALIAN PETROLEUM SYSTEMS PROJECT

PAPUAN BASIN MODULE

APPENDIX 4 : POROSITY DATA

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Anchor Cay 1	2118.3	2179.2	6950.0	7150.0				9.0			log	AGSO(JW)	no WCR data available
Angore 1	4003.3		13134.9		12.0						core	Core Lab	Porosity by Helium Injection
Angore 1	4003.5		13135.5		11.0						core	Core Lab	Porosity by Helium Injection
Angore 1	4003.8		13136.5		10.2						core	Core Lab	Porosity by Helium Injection
Angore 1	4004.0		13137.2								core	Core Lab	Porosity by Helium Injection
Angore 1	4004.1		13137.6		11.9						core	Core Lab	Porosity by Helium Injection
Angore 1	4004.4		13138.6		10.9						core	Core Lab	Porosity by Helium Injection
Angore 1	4005.0		13140.4								core	Core Lab	Porosity by Helium Injection
Angore 1	4005.2		13141.0		11.9						core	Core Lab	Porosity by Helium Injection
Angore 1	4005.4		13141.6		10.8						core	Core Lab	Porosity by Helium Injection
Angore 1	4005.8		13143.0								core	Core Lab	Porosity by Helium Injection
Angore 1	4013.2		13167.4		5.9						core	Core Lab	Porosity by Helium Injection
Angore 1	4013.5		13168.2		6.3						core	Core Lab	Porosity by Helium Injection
Angore 1	4013.9		13169.7		5.8						core	Core Lab	Porosity by Helium Injection
Angore 1	4014.2		13170.7		7.7						core	Core Lab	Porosity by Helium Injection
Angore 1	4014.4		13171.2								core	Core Lab	Porosity by Helium Injection
Angore 1	4014.4		13171.3		6.0						core	Core Lab	Porosity by Helium Injection
Angore 1	4023.5		13201.2		7.1						core	Core Lab	Porosity by Helium Injection
Angore 1	4023.6		13201.3								core	Core Lab	Porosity by Helium Injection
Angore 1	4023.9		13202.3		7.8						core	Core Lab	Porosity by Helium Injection
Angore 1	4024.3		13203.7		6.5						core	Core Lab	Porosity by Helium Injection
Angore 1	4024.3		13203.8								core	Core Lab	Porosity by Helium Injection
Angore 1	4024.8		13205.3		6.9						core	Core Lab	Porosity by Helium Injection
Angore 1	4025.0		13205.9		7.7						core	Core Lab	Porosity by Helium Injection
Angore 1	4025.5		13207.8		9.2						core	Core Lab	Porosity by Helium Injection
Angore 1	4025.6		13208.0								core	Core Lab	Porosity by Helium Injection
Angore 1	4026.3		13210.3		9.4						core	Core Lab	Porosity by Helium Injection
Angore 1	4026.6		13211.4		8.8						core	Core Lab	Porosity by Helium Injection
Angore 1	4026.9		13212.2								core	Core Lab	Porosity by Helium Injection
Angore 1	4026.9		13212.3								core	Core Lab	Porosity by Helium Injection
Angore 1	4027.6		13214.4								core	Core Lab	Porosity by Helium Injection
Aramia 1	315.1	512.0	1034.0	1680.0					18.0	45.0	log	Island Ex	
Aramia 1	324.0		1063.0		27.0						core	Island Ex	
Aramia 1	324.3		1064.0		17.1						core	Island Ex	
Aramia 1	676.9		2221.0		7.9						core	Island Ex	
Aramia 1	944.8	960.1	3100.0	3150.0						32.0	log	Island Ex	
Aramia 1	996.3		3269.0		25.1						core	Island Ex	
Aramia 1	1121.9		3681.0		11.7						core	Island Ex	

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	Porosity	Porosity	Porosity	Porosity	Porosity	Porosity	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot %	Hor %	Vert %	Ave %	Min %	Max %			
Aramia 1	1147.8		3766.0		21.6						core	Island Ex	
Aramia 1	1315.1		4315.0		25.6						core	Island Ex	
Aramia 1	1495.3	1516.6	4906.0	4976.0					24.0	35.0	log	Island Ex	
Aramia 1	1495.9	1723.9	4908.0	5656.0					15.0	20.0	log	Island Ex	
Aramia 1	1497.1		4912.0		22.5						core	Island Ex	
Aramia 1	1575.7		5170.0		21.5						core	Island Ex	
Aramia 1	1600.7		5252.0		5.2						core	Island Ex	
Aramia 1	1603.2		5260.0		17.9						core	Island Ex	
Aramia 1	1675.7		5498.0		23.7						core	Island Ex	
Aramia 1	1679.1		5509.0		15.7						core	Island Ex	
Aramia 1	1744.6		5724.0		14.8						core	Island Ex	
Aramia 1	1746.7		5731.0		9.4						core	Island Ex	
Aramia 1	1768.4	1849.4	5802.0	6068.0					15.0	20.0	log	Island Ex	
Aramia 1	1809.5		5937.0		18.9						core	Island Ex	
Aramia 1	1815.0		5955.0		23.4						core	Island Ex	
Aramia 1	1872.9		6145.0					14.2	13.9	14.2	core	Island Ex	
Aramia 1	1874.4		6150.0		4.9						core	Island Ex	
Aramia 1	1910.4	2014.6	6268.0	6610.0					15.0	20.0	log	Island Ex	
Aramia 1	1937.8		6358.0		16.5						core	Island Ex	
Aramia 1	1941.2		6369.0		22.6						core	Island Ex	
Barikewa 1	1658.0	1705.0	5440.0	5594.0	14.0						report	Island Ex	No analysis work done on cores
Barikewa 1	1826.3	1851.6	5992.0	6075.0	13.5						report	Island Ex	No analysis work done on cores
Darai 1	1389.5		4558.9		4.0						log	PNG Petroleum	
Darai 1	1391.0		4563.9		17.0						log	PNG Petroleum	
Darai 1	1522.5		4995.3		20.0						log	PNG Petroleum	
Darai 1	1525.5		5005.2		23.5						log	PNG Petroleum	
Darai 1	1531.5		5024.9		23.5						log	PNG Petroleum	
Darai 1	1554.0		5098.7		25.0						log	PNG Petroleum	
Darai 1	1560.0		5118.4		25.0						log	PNG Petroleum	
Darai 1	1628.5		5343.1		13.5						log	PNG Petroleum	
Darai 1	1661.5		5451.4		13.5						log	PNG Petroleum	
Darai 1	1718.5		5638.4		21.5						log	PNG Petroleum	
Darai 1	1728.0		5669.6		21.5						log	PNG Petroleum	
Darai 1	1730.5		5677.8		21.0						log	PNG Petroleum	
Darai 1	1751.0		5745.0		23.5						log	PNG Petroleum	
Darai 1	1756.0		5761.4		21.5						log	PNG Petroleum	
Darai 1	1762.0		5781.1		17.0						log	PNG Petroleum	
Darai 1	1769.0		5804.1		21.0						log	PNG Petroleum	

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Darai 1	1776.0		5827.1		22.5						log	PNG Petroleum	
Darai 1	1798.0		5899.2		16.5						log	PNG Petroleum	
Darai 1	1808.5		5933.7		23.5						log	PNG Petroleum	
Darai 1	1815.0		5955.0		22.0						log	PNG Petroleum	
Darai 1	1823.0		5981.3		21.0						log	PNG Petroleum	
Darai 1	1826.0		5991.1		21.5						log	PNG Petroleum	
Darai 1	1843.0		6046.9		26.0						log	PNG Petroleum	
Darai 1	1848.0		6063.3		21.0						log	PNG Petroleum	
Darai 1	1910.0		6266.7		22.0						log	PNG Petroleum	
Darai 1	1915.0		6283.1		25.0						log	PNG Petroleum	
Darai 1	1919.0		6296.2		24.0						log	PNG Petroleum	
Elevala 1	3084.3		10119.7		5.7						core	Core Lab	Porosity by fluid injection
Elevala 1	3085.0		10121.7		8.1						core	Core Lab	Porosity by fluid injection
Elevala 1	3085.6		10123.8								core	Core Lab	Porosity by fluid injection
Elevala 1	3086.2		10125.8		10.5						core	Core Lab	Porosity by fluid injection
Elevala 1	3086.8		10127.7		3.9						core	Core Lab	Porosity by fluid injection
Elevala 1	3087.6		10130.3		12.6						core	Core Lab	Porosity by fluid injection
Elevala 1	3088.2		10132.4		5.4						core	Core Lab	Porosity by fluid injection
Elevala 1	3088.8		10134.3		12.7						core	Core Lab	Porosity by fluid injection
Elevala 1	3089.3		10135.9		10.4						core	Core Lab	Porosity by fluid injection
Elevala 1	3089.8		10137.5		11.2						core	Core Lab	Porosity by fluid injection
Elevala 1	3090.3		10139.1		10.2						core	Core Lab	Porosity by fluid injection
Elevala 1	3090.6		10140.2		11.6						core	Core Lab	Porosity by fluid injection
Elevala 1	3091.0		10141.4		4.8						core	Core Lab	Porosity by fluid injection
Elevala 1	3091.2		10142.3		8.5						core	Core Lab	Porosity by fluid injection
Elevala 1	3091.5		10143.3		10.9						core	Core Lab	Porosity by fluid injection
Elevala 1	3093.7		10150.6		9.0						core	Core Lab	Porosity by fluid injection
Elevala 1	3094.4		10152.7		10.3						core	Core Lab	Porosity by fluid injection
Elevala 1	3095.4		10155.8		11.0						core	Core Lab	Porosity by fluid injection
Elevala 1	3098.2		10165.0		7.6						core	Core Lab	Porosity by fluid injection
Elevala 1	3099.9		10170.6		8.5						core	Core Lab	Porosity by fluid injection
Elevala 1	3100.6		10173.0		7.1						core	Core Lab	Porosity by fluid injection
Elevala 1	3101.3		10175.4		15.3						core	Core Lab	Porosity by fluid injection
Goari 1	2229.0	2235.0	7313.3	7333.0				14.0			log	ESSO PNG	
Goari 1	2416.0	2465.0	7926.9	8087.7				14.0	8.0	17.0	log	ESSO PNG	
Goari 1	2514.0	2550.0	8248.4	8366.6				11.0	10.0	13.0	log	ESSO PNG	
Goari 1	2827.0	2830.0	9275.4	9285.2					17.0	20.0	log	ESSO PNG	
Goari 1	2842.0	2852.0	9324.6	9357.4					17.0	20.0	log	ESSO PNG	

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Goari 1	2870.0	2880.0	9416.5	9449.3				15.0	5.0	18.0	log	ESSO PNG	
Goari 1	3002.0	3009.0	9849.6	9872.5				13.0	5.0	15.0	log	ESSO PNG	
Goari 1	3056.0	3100.0	10026.7	10171.1					10.0	15.0	log	ESSO PNG	
Goaribari 1	2463.0	2530.0	8081.1	8300.9				10.5			log	Premier Niug	
Goaribari 1	2500.0	2612.0	8202.5	8570.0					12.0	14.0	log	Premier Niug	
Goaribari 1	2766.0	3188.0	9075.2	10459.8				18.0			log	Premier Niug	
Goaribari 1	3188.0	3838.0	10459.8	12592.5				11.0			log	Premier Niug	
Goaribari 1	3188.0	3554.0	10459.8	11660.7				14.0			log	Premier Niug	
Gobe 1	1665.3	1733.3	5464.0	5687.0				17.0			log	Chevron Niug	
Gobe 1	1903.1	1920.5	6244.0	6301.0				16.0			log	Chevron Niug	
Gobe 1	2003.0	2023.8	6572.0	6640.0				15.0			log	Chevron Niug	
Gobe 1	2025.6	2095.1	6646.0	6874.0				18.0			log	Chevron Niug	
Gobe 1	2083.8	2121.9	6837.0	6962.0				6.0			log	Chevron Niug	
Gobe 1	2126.8	2131.4	6978.0	6993.0				8.0			log	Chevron Niug	
Gobe 1	2233.5	2235.9	7328.0	7336.0				12.0			log	Chevron Niug	
Gobe 1	2237.4	2239.9	7341.0	7349.0				14.0			log	Chevron Niug	
Hedinia 1	2116.9		6945.5		17.2						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2117.1		6946.3		17.4						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2117.5		6947.5		18.3						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2117.8		6948.6		18.4						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2118.1		6949.4		17.7						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2118.4		6950.6		17.9						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2118.7		6951.5		18.0						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2119.0		6952.5		17.9						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2119.4		6953.6		18.2						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2119.6		6954.6		19.6						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2120.0		6955.6		15.2						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2120.2		6956.5		18.8						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2120.6		6957.8		12.8						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2120.9		6958.7		16.3						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2121.3		6959.9		15.5						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2121.4		6960.4		19.0						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2121.8		6961.5		17.9						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2122.1		6962.5		17.9						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2122.4		6963.5		13.3						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2122.6		6964.3		2.6						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2123.0		6965.4		4.8						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2123.3		6966.5		11.0						core	Petr. Service Inc	Porosity by Helium Injection

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Hedinia 1	2123.5		6967.3		16.4						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2123.9		6968.6		19.3						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2124.2		6969.6		19.6						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2124.6		6970.9		21.1						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2124.9		6971.7		20.3						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2125.1		6972.6		19.3						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2125.4		6973.6		13.8						core	Petr. Service Inc	Porosity by Helium Injection
Hedinia 1	2125.8		6974.7		17.8						core	Petr. Service Inc	Porosity by Helium Injection
Iagifu 1	2456.1		8058.5		14.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2456.4		8059.5		14.2						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2456.7		8060.5		15.1						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2457.0		8061.5		14.5						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2457.3		8062.5		12.2						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2457.6		8063.5		12.6						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2457.9		8064.5		10.2						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2458.2		8065.5		11.2						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2458.5		8066.5		11.5						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2458.9		8067.5		11.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2459.2		8068.5		9.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2459.5		8069.5		9.1						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2459.8		8070.5		9.1						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2460.1		8071.5		8.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2460.4		8072.5		8.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2460.7		8073.5		5.1						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2461.0		8074.5		2.1						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2461.3		8075.5		2.3						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2461.6		8076.5		14.5						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2461.9		8077.5		15.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2462.2		8078.5		12.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2462.5		8079.5		12.3						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2462.8		8080.5		12.1						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2463.1		8081.5		12.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2463.4		8082.5		13.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2463.7		8083.5		8.7						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2464.0		8084.5		9.5						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2464.6		8086.5		11.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2465.1		8088.0		11.2						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2465.4		8089.0		12.4						core	Core Lab	Porosity by Helium Injection

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Iagifu 1	2465.7		8090.0		9.7						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2466.0		8091.0		12.6						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2466.3		8092.0		13.5						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2466.6		8093.0		11.3						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2466.9		8094.0		13.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2467.2		8095.0		14.8						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2467.5		8096.0		11.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2467.8		8097.0		13.5						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2468.1		8098.0		12.3						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2468.5		8099.0		12.7						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2468.8		8100.0		12.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2469.1		8101.0		17.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2469.4		8102.0		17.7						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2469.7		8103.0		8.5						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2470.0		8104.0		13.5						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2471.5		8109.0		4.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2471.8		8110.0		12.9						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2472.1		8111.0		13.8						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2472.4		8112.0		12.9						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2473.0		8114.0		14.3						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2473.6		8116.0		16.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2473.9		8117.0		14.9						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2474.2		8118.0		15.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2474.6		8119.0		14.2						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2475.0		8120.5		12.9						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2475.3		8121.5		14.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2475.6		8122.5		14.8						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2475.9		8123.5		13.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2476.2		8124.5		14.6						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2476.5		8125.5		14.7						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2476.8		8126.5		15.9						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2477.1		8127.5		14.6						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2477.4		8128.5		14.2						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2477.8		8129.5		14.9						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2478.1		8130.5		14.4						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2478.4		8131.5		14.0						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2478.7		8132.5		14.7						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2479.0		8133.5		15.4						core	Core Lab	Porosity by Helium Injection

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Iagifu 1	2484.5		8151.5		14.1						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2484.8		8152.5		14.5						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2485.1		8153.5		13.8						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2485.4		8154.5		14.8						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2485.7		8155.5		14.6						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2486.0		8156.5		15.2						core	Core Lab	Porosity by Helium Injection
Iagifu 1	2486.3		8157.5		15.0						core	Core Lab	Porosity by Helium Injection
Iamara 1	117.3		385.0		45.5						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	119.2		391.0		39.4						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	276.4		907.0		34.0						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	402.0		1319.0		42.3						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	402.0		1319.0			43.0	38.0				core	BMR	Analysis at BMR
Iamara 1	404.1		1326.0		43.2						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	585.5		1921.0		22.8						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	761.0		2497.0		33.4						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	914.4		3000.0		17.2						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	915.6		3004.0		23.6						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	981.4	1691.6	3220.0	5550.0					20.0	30.0	report	Aust Pet Co (APC)	
Iamara 1	1026.8		3369.0		27.8						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	1026.8		3369.0			30.0	30.0				core	BMR	Analysis at BMR
Iamara 1	1070.4		3512.0		30.5						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	1070.7		3513.0			30.0	30.0				core	BMR	Analysis at BMR
Iamara 1	1184.4		3886.0			22.0	25.0				core	BMR	Analysis at BMR
Iamara 1	1184.7		3887.0		22.0						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	1278.9		4196.0			15.0	20.0				core	BMR	Analysis at BMR
Iamara 1	1280.1		4200.0		16.8						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	1370.6		4497.0			30.0	28.0				core	BMR	Analysis at BMR
Iamara 1	1374.6		4510.0		15.5						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	1463.6		4802.0			19.0	20.0				core	BMR	Analysis at BMR
Iamara 1	1464.8		4806.0		11.6						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	1554.1		5099.0		16.0						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	1554.4		5100.0			25.0	nil				core	BMR	Analysis at BMR
Iamara 1	1656.8		5436.0		18.8						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	1656.8		5436.0			26.0	29.0				core	BMR	Analysis at BMR
Iamara 1	1691.6	1773.8	5550.0	5820.0					15.0	20.0	report	Aust Pet Co (APC)	
Iamara 1	1743.1		5719.0		5.2						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction
Iamara 1	1744.9		5725.0			20.0	20.0				core	BMR	Analysis at BMR
Iamara 1	1745.2		5726.0		10.6						core	Aust Pet Co (APC)	Site porosity Sohxlet extraction

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Iehi 1	1431.3	1475.8	4696.0	4842.0					17.0	20.0	log	Aust Pet Co (APC)	
Iehi 1	1436.2	1442.3	4712.2	4732.2	8.9						core	PNG F/R/86-3	Site porosity Sohxlet extract APC
Iehi 1	1439.3		4722.3		9.1						core	BP Research	
Iehi 1	1442.0		4731.2		11.2						core	PNG F/R/86-3	Site porosity Sohxlet extraction
Iehi 1	1442.3	1456.9	4732.2	4780.1	19.5						core	PNG F/R/86-3	Site porosity Sohxlet extraction
Iehi 1	1445.4		4742.4		19.0						core	BP Research	
Iehi 1	1599.0	1602.6	5246.3	5258.1	17.8						core	PNG F/R/86-3	Site porosity Sohxlet extraction
Iehi 1	1600.5		5251.2		16.6						core	BP Research	
Iehi 1	1602.6	1603.8	5258.1	5262.1	18.2						core	PNG F/R/86-3	Site porosity Sohxlet extraction
Iehi 1	1602.6		5258.1		17.2						core	BP Research	
Iehi 1	1603.5		5261.1		16.6						core	BP Research	
Iehi 1	1604.5	1618.8	5264.0	5311.0					20.0	27.0	log	Aust Pet Co (APC)	
Iehi 1	1604.5	1611.8	5264.4	5288.3	12.0						core	PNG F/R/86-3	Site porosity Sohxlet extraction
Iehi 1	1605.4		5267.3		17.9						core	BP Research	
Iehi 1	1615.1		5299.1		18.0						core	BP Research	
Iehi 1	1630.6	1642.2	5350.0	5388.0					21.0	24.0	log	Aust Pet Co (APC)	
Iehi 1	1680.6	1691.6	5514.0	5550.0				14.0			log	Aust Pet Co (APC)	
Iehi 1	1682.5		5520.3		22.0						core	BP Research	
Iehi 1	1702.2	1740.3	5585.0	5710.0					12.0	13.0	log	Aust Pet Co (APC)	
Iehi 1	2478.6		8132.3		8.3						core	PNG F/R/86-3	Site porosity Sohxlet extraction
Iehi 1	2671.7	2677.2	8766.0	8784.0				14.0			log	Aust Pet Co (APC)	
Iehi 1	2694.3	2708.0	8840.0	8885.0					15.0	17.0	log	Aust Pet Co (APC)	
Iehi 1	2715.6	2747.0	8910.0	9013.0					13.0	16.0	log	Aust Pet Co (APC)	
Iehi 1	2727.8	2776.6	8950.0	9110.0					22.0	25.0	log	Aust Pet Co (APC)	
Iehi 1	2738.9		8986.3		20.0						core	BP Research	
Iehi 1	2739.5		8988.3		17.8						core	PNG F/R/86-3	Site porosity Sohxlet extraction
Irogobaiu 1	2212.7	2304.2	7260.0	7560.0				17.8			log	Chevron	No cores taken
Juha 1	3195.7	3225.2	10485.0	10582.0					9.0	11.0	report	Niugini Gulf Oil	No WCR data available
Kanau 1	1302.8		4274.5		16.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1303.0		4275.1		19.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1305.0		4281.7		24.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1306.0		4285.0		23.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1309.0		4294.8		26.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1312.0		4304.7		18.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1314.0		4311.2		24.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1318.0		4324.4		24.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1322.0		4337.5		12.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1325.0		4347.3		17.5						log	PNG Petroleum	Porosity values from sonic log

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Kanau 1	1329.0		4360.4		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1346.0		4416.2		25.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1356.0		4449.0		33.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1364.0		4475.3		28.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1365.0		4478.6		29.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1527.0		5010.1		20.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1539.0		5049.5		23.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1540.0		5052.7		23.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1541.0		5056.0		23.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1544.0		5065.9		11.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1549.5		5083.9		18.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1550.0		5085.6		15.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1550.5		5087.2		16.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1551.0		5088.8		17.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1554.5		5100.3		20.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1555.0		5102.0		21.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1555.5		5103.6		19.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1556.0		5105.2		20.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1557.0		5108.5		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1560.0		5118.4		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1561.0		5121.6		23.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1562.0		5124.9		22.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1562.5		5126.6		18.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1563.0		5128.2		18.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1564.0		5131.5		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1601.0		5252.9		18.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1606.0		5269.3		24.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1611.5		5287.3		21.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1613.0		5292.3		20.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1615.0		5298.8		16.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1616.5		5303.7		18.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1617.0		5305.4		16.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1626.5		5336.5		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1634.0		5361.2		20.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1650.5		5415.3		26.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1651.0		5416.9		27.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1653.0		5423.5		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1655.0		5430.1		24.5						log	PNG Petroleum	Porosity values from sonic log

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	Porosity	Porosity	Porosity	Porosity	Porosity	Porosity	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot %	Hor %	Vert %	Ave %	Min %	Max %			
Kanau 1	1656.0		5433.3		19.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1675.6		5497.6		27.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1676.5		5500.6		31.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1743.0		5718.8		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1791.0		5876.3		18.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1825.0		5987.8		17.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1829.0		6000.9		15.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1837.5		6028.8		19.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1877.0		6158.4		20.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1879.5		6166.6		20.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1882.0		6174.8		19.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1898.0		6227.3		26.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1901.0		6237.2		26.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1903.5		6245.4		30.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1906.5		6255.2		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1908.5		6261.8		12.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1956.5		6419.3		18.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1963.5		6442.2		25.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1983.0		6506.2		26.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1984.5		6511.1		23.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1990.0		6529.2		33.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1994.5		6544.0		32.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	1997.5		6553.8		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2004.5		6576.8		16.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2012.0		6601.4		19.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2019.5		6626.0		19.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2079.0		6821.2		17.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2082.5		6832.7		18.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2152.0		7060.7		18.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2155.0		7070.6		12.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2184.0		7165.7		17.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2219.0		7280.5		17.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2389.0		7838.3		15.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2452.5		8046.7		14.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2507.0		8225.5		15.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2510.0		8235.3		16.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2511.5		8240.2		17.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2514.0		8248.4		15.0						log	PNG Petroleum	Porosity values from sonic log

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Kanau 1	2519.0		8264.8		20.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2523.5		8279.6		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2612.0		8570.0		14.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2654.0		8707.8		13.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2809.0		9216.3		6.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2810.5		9221.3		17.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2847.5		9342.6		16.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2849.0		9347.6		16.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2851.5		9355.8		13.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2865.0		9400.1		22.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2967.5		9736.4		8.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2970.0		9744.6		6.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	2979.5		9775.7		9.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3000.5		9844.6		7.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3012.5		9884.0		8.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3018.5		9903.7		7.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3031.5		9946.4		9.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3048.0		10000.5		10.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3085.0		10121.9		10.5						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3089.5		10136.6		12.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3101.0		10174.4		7.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3112.5		10212.1		10.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3122.5		10244.9		7.0						log	PNG Petroleum	Porosity values from sonic log
Kanau 1	3475.3		11402.5		3.5						core	PNG Petroleum	Analysis done at well site
Kanau 1	3476.2		11405.5		3.6						core	PNG Petroleum	Analysis done at well site
Kanau 1	3477.2		11408.5		2.3						core	PNG Petroleum	Analysis done at well site
Kanau 1	3478.9		11414.4		2.1						core	PNG Petroleum	Analysis done at well site
Kiunga 1	2918.0	2944.0	9574.0	9659.3					12.0	18.0	report	Niugini Gulf	No WCR data available
Komewu 1	173.4		568.9		40.0						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	369.4		1212.0		34.0						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	481.6		1580.1		7.5						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	621.5		2039.1		11.7						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	767.8		2519.1		5.1						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	876.6		2876.1		14.4						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	940.6		3086.1		4.4						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	1038.7		3408.0		6.0						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	1136.9		3730.2		3.8						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	1254.8		4117.0		5.1						core	PNG F/R/86-3	Report from PNG Dept.

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Komewu 1	1390.8		4563.2		3.0						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	1453.3		4768.3		8.7						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	1603.8		5262.1		19.3						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	1675.2		5496.3		16.2						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	1687.7		5537.3		9.5						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	1730.3		5677.1		22.5						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 1	1781.5		5845.1		14.0						core	PNG F/R/86-3	Report from PNG Dept.
Komewu 2	1545.3		5070.1		24.6						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	1615.7		5301.1		22.0						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	1763.3		5785.4		10.9						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2236.9		7339.3		30.6						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2338.7		7673.3		10.4						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2537.1		8324.2		13.7						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2845.3		9335.4		20.7						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2862.7		9392.5		28.0						core	Island Explor	Also listed in PNG F/R/86-3
Kusa 1	2427.6	2435.8	7965.0	7992.0					21.0	23.0	logs	ESSO	
Kusa 1	2435.8	2444.1	7992.0	8019.0					11.0	14.0	logs	ESSO	
Kusa 1	2475.2	2484.6	8121.0	8152.0					22.0	24.0	logs	ESSO	
Kusa 1	2484.6	2487.0	8152.0	8160.0					12.0	14.0	logs	ESSO	
Kusa 1	2488.4		8164.3		13.8						core	ESSO	Core 1 (8132'-8170')
Kusa 1	2489.6		8168.5		17.9						core	ESSO	Core 1 (8132'-8170')
Kusa 1	2490.4	2491.9	8171.0	8176.0					18.0	21.0	logs	ESSO	
Kusa 1	3423.7		11233.0		4.0						core	ESSO	Core 2 (11230'-11265')
Kusa 1	3431.0		11257.0		16.6						core	ESSO	Core 2 (11230'-11265')
Kusa 1	3432.2		11261.0		13.5						core	ESSO	Core 2 (11230'-11265')
Lake Murray 2	1752.5	1758.6	5750.0	5770.0				27.0			logs	Conoco	
Lake Murray 2	1776.9	1785.4	5830.0	5858.0					16.0	23.0	logs	Conoco	
Lake Murray 2	1886.6	1915.0	6190.0	6283.0					15.0	20.0	logs	Conoco	
Lavani 1	658.6		2160.9		20.0						SWC	Core Lab	Porosity by Helium Injection
Lavani 1	1007.6		3305.9		25.0						SWC	Core Lab	Porosity by Helium Injection
Lavani 1	1018.3		3340.9		19.0						SWC	Core Lab	Porosity by Helium Injection
Lavani 1	1161.3		3810.1		28.0						SWC	Core Lab	Porosity by Helium Injection
Lavani 1	1191.7		3910.0		23.0						SWC	Core Lab	Porosity by Helium Injection
Lavani 1	1194.7		3919.7		25.0						SWC	Core Lab	Porosity by Helium Injection
Lavani 1	1280.1		4200.0		20.5						SWC	Core Lab	Porosity by Helium Injection
Lavani 1	1432.4		4699.7		17.0						SWC	Core Lab	Porosity by Helium Injection
Lavani 1	1558.0		5111.8		17.0						SWC	Core Lab	Porosity by Helium Injection
Lavani 1	1654.4		5428.0		31.0						SWC	Core Lab	Porosity by Helium Injection

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Lavani 1	1871.3		6139.8		20.5						SWC	Core Lab	Porosity by Helium Injection
Magobu Is. 1	378.2		1241.0		26.2						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	922.3		3026.0		14.9						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	922.6		3027.0		21.7						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	922.9		3028.0		23.3						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	923.2		3029.0		21.1						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	923.5		3030.0		17.5						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1305.7		4284.0		22.7						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1306.3		4286.0		15.7						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1307.5		4290.0		24.7						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1513.9		4967.0		19.2						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1514.8		4970.0		20.9						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1515.4		4972.0		16.9						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1516.6		4976.0		12.0						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1517.2		4978.0		12.8						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1518.1		4981.0		13.1						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1519.0		4984.0		12.5						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1519.4		4985.0		17.8						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1520.0		4987.0		16.9						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2064.9		6775.0		31.2						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2065.5		6777.0		25.4						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2066.1		6779.0		18.9						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2066.7		6781.0		30.8						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2067.4		6783.0		32.7						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2068.0		6785.0		33.9						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2068.6		6787.0		28.6						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2069.2		6789.0		24.4						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2069.8		6791.0		29.6						core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2070.4		6793.0		24.9						core	Core Lab	Report for Endeavour Oil
Mananda 3	2441.0		8008.8		9.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2441.2		8009.6		9.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2441.6		8010.9		10.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2441.9		8011.9		10.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2442.0		8012.4		11.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2442.5		8013.9		10.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2442.7		8014.7		10.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2443.0		8015.5		8.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2446.1		8025.8		12.3						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Mananda 3	2446.4		8026.7		9.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2446.5		8027.1		2.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2447.4		8029.8		11.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2447.6		8030.7		12.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2447.8		8031.3		12.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2449.2		8035.8		11.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2449.5		8036.8		11.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2449.8		8037.9		12.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2450.0		8038.6		11.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2451.5		8043.5		12.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2452.0		8045.0		9.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2452.2		8045.7		3.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2454.7		8053.8		5.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2455.0		8054.8		6.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2455.3		8055.8		5.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2455.4		8056.1		4.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2455.7		8057.1		3.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2457.4		8062.7		8.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2457.6		8063.3		4.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2459.3		8069.1		14.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2459.7		8070.2		14.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2460.0		8071.1		15.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2460.3		8072.1		14.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2462.0		8077.9		10.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2462.3		8078.9		13.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2462.6		8079.9		14.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2462.9		8080.8		13.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2463.0		8081.2		12.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2463.7		8083.3		11.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2463.9		8084.2		11.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2464.2		8085.2		11.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2465.4		8089.1		13.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2465.7		8090.1		10.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2466.7		8093.3		10.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2467.0		8094.2		11.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2468.8		8100.1		6.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2469.1		8101.2		7.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2469.4		8102.2		10.4						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Mananda 3	2469.7		8103.1		9.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2471.0		8107.5		7.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2471.2		8108.1		5.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2471.5		8109.2		7.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2471.8		8110.1		6.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2472.4		8111.9		8.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2480.8		8139.4		11.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2482.3		8144.3		2.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2482.7		8145.7		6.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2483.5		8148.2		6.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2486.5		8158.4		10.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2488.1		8163.4		9.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2488.9		8166.2		2.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2489.5		8167.9		12.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2489.9		8169.2		10.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2498.4		8197.3		12.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2499.0		8199.2		14.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2500.5		8204.3		13.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2500.8		8205.2		11.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2501.1		8206.1		11.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2501.4		8207.1		10.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2501.7		8208.1		11.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2502.0		8209.2		11.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2502.3		8210.1		10.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2502.6		8211.2		12.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2503.8		8215.1		10.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2504.1		8216.1		7.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2508.7		8231.2		6.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2509.1		8232.4		3.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2509.4		8233.2		11.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2509.7		8234.3		14.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2510.9		8238.2		10.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2511.2		8239.2		12.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2512.5		8243.5		7.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2512.7		8244.3		11.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2513.0		8245.1		10.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2514.2		8249.1		10.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2514.5		8250.2		12.9						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Mananda 3	2515.0		8251.6		7.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2515.1		8252.1		4.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2515.6		8253.6		14.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2515.8		8254.2		12.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2517.0		8258.4		14.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2518.2		8262.1		10.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2518.5		8263.1		12.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2518.8		8264.1		19.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2519.1		8265.1		10.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2519.4		8266.1		8.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2519.9		8267.8		14.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2520.2		8268.9		13.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2520.5		8269.7		13.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2520.7		8270.5		9.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2520.9		8271.2		13.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2521.3		8272.3		11.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2521.6		8273.3		10.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2522.0		8274.7		12.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2522.3		8275.7		13.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2526.1		8288.1		9.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2526.4		8289.2		11.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2527.6		8293.1		8.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2528.0		8294.4		13.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2528.2		8295.1		14.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2528.6		8296.5		6.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2528.9		8297.4		13.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2529.2		8298.3		13.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2529.4		8299.1		11.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2530.7		8303.3		4.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2532.0		8307.6		7.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2533.5		8312.3		12.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2533.7		8313.2		8.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2534.0		8314.1		12.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2534.3		8315.0		11.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2534.6		8316.0		5.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2535.2		8318.1		14.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2535.5		8319.1		14.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2536.8		8323.1		14.0						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Mananda 3	2537.1		8324.1		10.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2537.4		8325.1		13.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2537.8		8326.6		13.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2538.1		8327.6		14.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2538.3		8328.2		8.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2538.6		8329.1		14.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2539.0		8330.5		14.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2540.1		8334.1		4.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2540.4		8335.2		2.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2540.7		8336.1		10.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2541.1		8337.4		12.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2541.4		8338.3		13.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2543.0		8343.5		4.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2543.2		8344.1		14.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2543.5		8345.1		14.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2543.8		8346.1		11.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2544.4		8348.3		12.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2544.7		8349.1		14.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2550.3		8367.5		14.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2551.4		8371.1		12.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2551.7		8372.1		13.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2552.0		8373.1		12.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2552.4		8374.4		11.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2552.6		8375.1		7.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2552.9		8376.1		5.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2553.2		8377.2		8.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2553.5		8378.1		3.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2553.8		8379.1		10.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2554.1		8380.1		13.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2554.5		8381.2		13.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2554.8		8382.2		6.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2555.0		8383.1		10.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2555.4		8384.4		22.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2555.9		8385.8		4.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2556.0		8386.1		4.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2556.2		8387.1		12.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2556.6		8388.1		14.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2557.0		8389.6		6.8						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Mananda 3	2557.2		8390.1		16.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2557.5		8391.1		6.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2557.8		8392.1		9.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2558.1		8393.1		8.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2558.4		8394.1		8.9						core	Petr. Service Inc	Report for Chevron
Morehead 1	624.8		2050.0		25.3						core	Aust Pet Co (APC)	
Morehead 1	810.7		2660.0		26.2			24.7			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	877.2		2878.0		24.2			23.5			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	945.4		3102.0		18.2			16.7			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1011.0		3317.0		24.5			17.8			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1079.5		3542.0					25.6			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1146.9		3763.0					31.3			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1262.1		4141.0		32.8			32.3			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1331.6		4369.0		34.3			33.3			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1398.7		4589.0		30.2			30.8			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1466.6		4812.0		30.1			29.9			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1533.1		5030.0		27.7			27.1			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1601.3		5254.0		24.2			23.5			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1601.3		5254.0				23.1				core	Aust Pet Co (APC)	vertical porosity
Morehead 1	1670.5		5481.0		25.5			24.0			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1734.5		5691.0		24.3			21.2			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1802.8		5915.0					17.3			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1872.9		6145.0					15.6			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	1922.9		6309.0					15.3			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2033.8		6673.0		32.2			21.6			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2071.9		6798.0					13.8			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2110.9		6926.0		16.4			12.6			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2166.1		7107.0		5.4			6.9			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2169.8		7119.0					10.8			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2230.1		7317.0		20.9			16.5			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2264.6		7430.0		10.7			10.1			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2295.0		7530.0		12.7			10.3			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2321.2		7616.0		14.2			14.3			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2338.9		7674.0		15.3			11.0			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2405.7		7893.0		19.2			6.6			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morehead 1	2427.6		7965.0		12.5			11.1			core	Aust Pet Co (APC)	Av porosity by Sohxlet extraction
Morigio 1	502.0	507.0	1647.1	1663.5				30.2			log	OPIC	
Morigio 1	510.0	512.0	1673.3	1679.9				32.2			log	OPIC	

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Moriglo 1	512.0	516.0	1679.9	1693.0				23.9			log	OPIC	
Moriglo 1	516.0	518.0	1693.0	1699.6				28.3			log	OPIC	
Moriglo 1	933.0	934.0	3061.2	3064.5				26.8			log	OPIC	
Moriglo 1	964.0	968.0	3162.9	3176.0				23.8			log	OPIC	
Moriglo 1	973.0	974.0	3192.4	3195.7				26.5			log	OPIC	
Moriglo 1	974.0	977.0	3195.7	3205.5				26.5			log	OPIC	
Moriglo 1	985.0	986.0	3231.8	3235.1				19.5			log	OPIC	
Moriglo 1	999.0	1002.0	3277.7	3287.6				12.2			log	OPIC	
Moriglo 1	1004.0	1007.0	3294.1	3304.0				9.7			log	OPIC	
Moriglo 1	1008.0	1015.0	3307.2	3330.2				21.7			log	OPIC	
Moriglo 1	1015.0	1021.0	3330.2	3349.9				10.1			log	OPIC	
Moriglo 1	1021.0	1023.0	3349.9	3356.5				27.6			log	OPIC	
Moriglo 1	1023.0	1028.0	3356.5	3372.9				13.0			log	OPIC	
Moriglo 1	2646.0	2652.0	8681.5	8701.2				7.8			log	OPIC	
Moriglo 1	2788.0	2835.0	9147.4	9301.6				17.0			report	OPIC	
Moriglo 1	2806.0		9206.5		17.7						core	Robertson Gp	
Moriglo 1	2806.3		9207.5		18.3						core	Robertson Gp	
Moriglo 1	2806.6		9208.5		18.8						core	Robertson Gp	
Moriglo 1	2806.9		9209.4		27.2						core	Robertson Gp	
Moriglo 1	2815.0	2835.0	9236.0	9301.6				16.5			log	OPIC	
Moriglo 1	3177.0	3180.0	10423.7	10433.6				12.5			log	OPIC	
Moriglo 1	3185.0	3192.0	10450.0	10473.0				12.2			log	OPIC	
Moriglo 1	3192.0	3195.0	10473.0	10482.8				16.8			log	OPIC	
Moriglo 1	3264.0	3304.0	10709.2	10840.4				16.0			report	OPIC	
Moriglo 1	3265.0	3267.0	10712.5	10719.0				15.8			log	OPIC	
Moriglo 1	3265.0	3304.0	10712.5	10840.4				19.6			SWC	Robertson Gp	
Moriglo 1	3267.0	3270.0	10719.0	10728.9				18.8			log	OPIC	
Moriglo 1	3270.0	3272.0	10728.9	10735.4				13.3			log	OPIC	
Moriglo 1	3272.0	3276.0	10735.4	10748.6				26.8			log	OPIC	
Moriglo 1	3275.0		10745.3		19.6						SWC	Robertson Gp	Helium Porosity
Moriglo 1	3276.0	3282.0	10748.6	10768.2				18.7			log	OPIC	
Moriglo 1	3282.0	3287.0	10768.2	10784.6				18.1			log	OPIC	
Moriglo 1	3287.0	3289.0	10784.6	10791.2				14.8			log	OPIC	
Moriglo 1	3289.0	3291.0	10791.2	10797.8				21.2			log	OPIC	
Moriglo 1	3295.0	3298.0	10810.9	10820.7				16.0			log	OPIC	
Moriglo 1	3298.0		10820.7		27.3						SWC	Robertson Gp	Helium Porosity
Moriglo 1	3298.0	3301.0	10820.7	10830.6				18.0			log	OPIC	
Moriglo 1	3335.0	3337.0	10942.1	10948.7				20.0			log	OPIC	

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	Porosity	Porosity	Porosity	Porosity	Porosity	Porosity	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot %	Hor %	Vert %	Ave %	Min %	Max %			
Moriglo 1	3346.0	3348.0	10978.2	10984.8				16.0			log	OPIC	
Moriglo 1	3348.0	3350.0	10984.8	10991.4				17.0			log	OPIC	
Moriglo 1	3352.0	3354.0	10997.9	11004.5				10.8			log	OPIC	
Moriglo 1	3376.0	3380.0	11076.7	11089.8				9.7			log	OPIC	
Moriglo 1	3406.0	3408.0	11175.1	11181.6				11.2			log	OPIC	
Moriglo 1	3411.0	3413.0	11191.5	11198.1				6.0			log	OPIC	
Moriglo 1	3413.0	3415.0	11198.1	11204.6				10.8			log	OPIC	
Moriglo 1	3415.0	3420.0	11204.6	11221.0				13.1			log	OPIC	
Moriglo 1	3487.0	3490.0	11440.8	11450.7				17.4			log	OPIC	
Moriglo 1	3500.0	3352.0	11483.5	10997.9				13.4			log	OPIC	
Moriglo 1	3500.0	3502.0	11483.5	11490.1				12.3			log	OPIC	
Moriglo 1	3553.0	3555.0	11657.4	11664.0				18.8			log	OPIC	
Moriglo 1	3554.0		11660.7		21.9						SWC	Robertson Gp	
Moriglo 1	3554.6		11662.6		21.9						SWC	Robertson Gp	Helium Porosity
Moriglo 1	3555.0	3556.0	11664.0	11667.2				12.4			log	OPIC	
Moriglo 1	3637.0	3640.0	11933.0	11942.8				10.4			log	OPIC	
Moriglo 1	3641.0	3643.0	11946.1	11952.7				6.6			log	OPIC	
Moriglo 1	3648.0	3651.0	11969.1	11978.9				6.2			log	OPIC	
Moriglo 1	3704.0	3708.0	12152.8	12165.9				10.2			log	OPIC	
Moriglo 1	3709.0	3711.0	12169.2	12175.8				9.0			log	OPIC	
Moriglo 1	3758.0	3760.0	12330.0	12336.6				6.6			log	OPIC	
Moriglo 1	3762.0	3764.0	12343.1	12349.7				4.0			log	OPIC	
Moriglo 1	3774.0	3776.0	12382.5	12389.1				11.8			log	OPIC	
Moriglo 1	3788.0	3791.0	12428.4	12438.3				11.5			log	OPIC	
Moriglo 1	3796.0	3798.0	12454.7	12461.2				14.5			log	OPIC	
Moriglo 1	3824.0	3825.0	12546.5	12549.8				9.0			log	OPIC	
Moriglo 1	3836.0	3841.0	12585.9	12602.3				5.8			log	OPIC	
Moriglo 1	3841.0	3844.0	12602.3	12612.2				11.6			log	OPIC	
Moriglo 1	3847.0	3852.0	12622.0	12638.4				12.9			log	OPIC	
Moriglo 1	3860.0	3870.0	12664.7	12697.5				10.3			log	OPIC	
Moriglo 1	3874.0	3879.0	12710.6	12727.0				8.6			log	OPIC	
Moriglo 1	3879.0	3881.0	12727.0	12733.6				16.2			log	OPIC	
Moriglo 1	3881.0	3883.0	12733.6	12740.1				7.4			log	OPIC	
Moriglo 1	3883.0	3886.0	12740.1	12750.0				13.0			log	OPIC	
Moriglo 1	3886.0	3888.0	12750.0	12756.5				8.7			log	OPIC	
Moriglo 1	3891.0	3893.0	12766.4	12772.9				24.3			log	OPIC	
Moriglo 1	3920.0	3922.0	12861.5	12868.1				17.3			log	OPIC	
Moriglo 1	3923.0	3925.0	12871.4	12877.9				12.1			log	OPIC	

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
Morigio 1	3934.0	3936.0	12907.5	12914.0				14.6			log	OPIC	
Morigio 1	3936.0	3938.0	12914.0	12920.6				5.0			log	OPIC	
Omati 1	10.7	1075.9	35.0	3530.0				15.0		30.0	report	Aust Pet Co (APC)	No other WCR data available
Omati 1	1075.9	1828.7	3530.0	6000.0				9.0		15.0	report	Aust Pet Co (APC)	No other WCR data available
Omati 1	1828.7	3003.7	6000.0	9855.0				2.5		5.0	report	Aust Pet Co (APC)	No other WCR data available
Omati 1	3003.7	3067.7	9855.0	10065.0				3.5		10.0	report	Aust Pet Co (APC)	No other WCR data available
Omati 1	3067.7	3801.3	10065.0	12472.0					5.0	10.0	report	Aust Pet Co (APC)	No other WCR data available
Omati 1	3176.6		10422.4		11.8						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	3179.7		10432.6		11.5						core	PNG F/R/86-3	Report from PNG Dept.
Omati 1	3227.8		10590.4		10.6						core	PNG F/R/86-3	Report from PNG Dept.
Omati 1	3515.5		11534.4		9.6						core	PNG F/R/86-3	Report from PNG Dept.
Omati 1	3517.4		11540.6		3.4						core	PNG F/R/86-3	Report from PNG Dept.
Omati 1	3711.2		12176.4		3.2						core	PNG F/R/86-3	Report from PNG Dept.
Omati 1	3742.0		12277.5		4.4						core	PNG F/R/86-3	Report from PNG Dept.
Omati 1	4192.2		13754.6		0.5						core	PNG F/R/86-3	Report from PNG Dept.
Omati 1	4196.8		13769.7		11.4						core	PNG F/R/86-3	Report from PNG Dept.
Omati 1	4217.5		13837.6		9.1						core	PNG F/R/86-3	Report from PNG Dept.
Omati 1	4218.7		13841.6		9.7						core	PNG F/R/86-3	Report from PNG Dept.
Orie 1	1136.0		3727.2		28.5						log	PNG Petroleum	
Orie 1	1141.0		3743.6		1.5						log	PNG Petroleum	
Orie 1	1370.5		4496.6		28.5						log	PNG Petroleum	
Orie 1	1378.0		4521.2		23.5						log	PNG Petroleum	
Orie 1	1379.5		4526.1		28.0						log	PNG Petroleum	
Orie 1	1470.0		4823.1		30.5						log	PNG Petroleum	
Orie 1	1505.5		4939.5		16.0						log	PNG Petroleum	
Orie 1	1517.0		4977.3		41.0						log	PNG Petroleum	
Orie 1	1535.0		5036.3		33.5						log	PNG Petroleum	
Orie 1	1562.0		5124.9		26.0						log	PNG Petroleum	
Orie 1	1573.0		5161.0		29.5						log	PNG Petroleum	
Orie 1	1580.5		5185.6		28.5						log	PNG Petroleum	
Orie 1	1633.5		5359.5		33.5						log	PNG Petroleum	
Orie 1	1642.0		5387.4		11.5						log	PNG Petroleum	
Orie 1	1672.5		5487.5		33.5						log	PNG Petroleum	
Orie 1	1679.5		5510.4		20.0						log	PNG Petroleum	
Orie 1	1683.0		5521.9		29.5						log	PNG Petroleum	
Orie 1	1771.5		5812.3		14.5						log	PNG Petroleum	
Orie 1	1802.5		5914.0		26.0						log	PNG Petroleum	
Orie 1	1906.5		6255.2		14.5						log	PNG Petroleum	

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	Porosity	Porosity	Porosity	Porosity	Porosity	Porosity	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot %	Hor %	Vert %	Ave %	Min %	Max %			
Orie 1	2071.0		6795.0		19.0						log	PNG Petroleum	
Orie 1	2073.5		6803.2		10.5						log	PNG Petroleum	
Orie 1	2253.0		7392.1		20.5						log	PNG Petroleum	
Orie 1	2260.5		7416.7		21.5						log	PNG Petroleum	
Orie 1	2265.5		7433.1		19.0						log	PNG Petroleum	
Orie 1	2269.5		7446.2		20.0						log	PNG Petroleum	
Orie 1	2275.0		7464.3		20.5						log	PNG Petroleum	
Orie 1	2327.0		7634.9		11.0						log	PNG Petroleum	
Orie 1	2341.0		7680.8		16.0						log	PNG Petroleum	
Orie 1	2355.0		7726.8		15.5						log	PNG Petroleum	
Orie 1	2363.0		7753.0		16.0						log	PNG Petroleum	
Orie 1	2371.5		7780.9		15.5						log	PNG Petroleum	
Orie 1	2380.0		7808.8		18.5						log	PNG Petroleum	
Orie 1	2401.5		7879.3		8.5						log	PNG Petroleum	
Orie 1	2405.0		7890.8		9.5						log	PNG Petroleum	
Orie 1	2436.5		7994.2		7.0						log	PNG Petroleum	
Orie 1	2513.5		8246.8		11.0						log	PNG Petroleum	
Orie 1	2520.5		8269.8		10.5						log	PNG Petroleum	
Orie 1	2522.0		8274.7		11.5						log	PNG Petroleum	
Orie 1	2524.0		8281.2		20.5						log	PNG Petroleum	
Orie 1	2526.0		8287.8		11.0						log	PNG Petroleum	
Orie 1	2533.0		8310.8		7.0						log	PNG Petroleum	
Orie 1	2534.5		8315.7		16.0						log	PNG Petroleum	
Orie 1	2536.0		8320.6		15.5						log	PNG Petroleum	
Orie 1	2540.0		8333.7		8.5						log	PNG Petroleum	
Orie 1	2568.5		8427.2		14.5						log	PNG Petroleum	
Orie 1	2657.5		8719.3		8.5						log	PNG Petroleum	
Orie 1	2672.5		8768.5		8.5						log	PNG Petroleum	
Orie 1	2733.0		8967.0		11.5						log	PNG Petroleum	
Orie 1	2821.5		9257.3		13.0						log	PNG Petroleum	
SE Hedinia 1	1784.4	1862.5	5854.5	6111.0				18.8			log	Niugini Gulf	No other WCR data available
SE Hedinia 1	1786.7	1865.6	5862.0	6121.0				18.8			log	Niugini Gulf	No other WCR data available
SE Hedinia 1	2048.2	2059.4	6720.0	6757.0				17.6			log	Niugini Gulf	No other WCR data available
SE Hedinia 1	2054.3	2065.8	6740.0	6778.0				17.6			log	Niugini Gulf	No other WCR data available
SE Hedinia 1	2063.4	2066.6	6770.0	6780.5				16.7			log	Niugini Gulf	No other WCR data available
SE Hedinia 1	2069.8	2073.1	6791.0	6802.0				16.7			log	Niugini Gulf	No other WCR data available
SE Hedinia 1	2070.6	2074.1	6793.5	6805.0				18.7			log	Niugini Gulf	No other WCR data available
SE Hedinia 1	2077.1	2080.8	6815.0	6827.0				18.7			log	Niugini Gulf	No other WCR data available

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Porosity Spot %	Porosity Hor %	Porosity Vert %	Porosity Ave %	Porosity Min %	Porosity Max %	Source	Who	Comments
SE Hedinia 1	2091.4	2119.6	6862.0	6954.5				18.8			log	Niugini Gulf	No other WCR data available
SE Hedinia 1	2098.4	2127.4	6885.0	6980.0				18.8			log	Niugini Gulf	No other WCR data available
Wabuda 1	2243.0	2246.0	7359.3	7369.1				22.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2246.0	2260.0	7369.1	7415.1				23.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2261.0	2276.0	7418.3	7467.6					0.0	20.0	logs	CanOxy	Petrophysical logs
Wabuda 1	2308.0	2316.0	7572.5	7598.8				16.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2318.0	2337.0	7605.4	7667.7				26.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2338.0	2363.0	7671.0	7753.0				22.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2364.0	2373.0	7756.3	7785.8				24.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2379.0	2388.0	7805.5	7835.0					0.0	17.0	logs	CanOxy	Petrophysical logs
Wabuda 1	2388.0	2396.0	7835.0	7861.3				10.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2398.0	2405.0	7867.8	7890.8					4.0	15.0	logs	CanOxy	Petrophysical logs
Wabuda 1	2405.0	2489.0	7890.8	8166.4				6.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2489.0	2497.0	8166.4	8192.7				19.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2500.0	2511.0	8202.5	8238.6				12.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2514.0	2546.0	8248.4	8353.4				26.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2558.0	2566.0	8392.8	8419.0				8.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2566.0	2787.0	8419.0	9144.1				6.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2787.0	2798.0	9144.1	9180.2				10.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2812.0	2839.0	9226.2	9314.8				8.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2841.0	2847.0	9321.3	9341.0				25.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2850.0	2873.0	9350.9	9426.3				12.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2874.0	2887.0	9429.6	9472.2				10.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2903.0	2912.0	9524.7	9554.3				14.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2916.0	2923.0	9567.4	9590.4					2.0	16.0	logs	CanOxy	Petrophysical logs
Wabuda 1	2929.0	2956.0	9610.0	9698.6				12.0			logs	CanOxy	Petrophysical logs
Wabuda 1	2958.0	2976.0	9705.2	9764.3				10.0			logs	CanOxy	Petrophysical logs

AGSO

AUSTRALIAN GEOLOGICAL
SURVEY ORGANISATION

AUSTRALIAN PETROLEUM SYSTEMS PROJECT

PAPUAN BASIN MODULE

APPENDIX 5 : PERMEABILITY DATA

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	K	Kh	Kv	K	K	K	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot	md	md	Av md	Min md	Max md			
Angore 1	4003.3		13134.9		74.0	84.0					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4003.5		13135.5		52.0	60.0					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4003.8		13136.5		16.0	20.0					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4004.0		13137.2		34.0		40.0				core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4004.1		13137.6		74.0	84.0					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4004.4		13138.6								core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4005.0		13140.4		4.8		6.4				core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4005.2		13141.0		74.0	84.0					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4005.4		13141.6		30.0	36.0					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4005.8		13143.0		23.0		28.0				core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4013.2		13167.4		0.1	0.1					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4013.5		13168.2		0.1	0.2					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4013.9		13169.7		0.1	0.2					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4014.2		13170.7		0.0	0.0					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4014.4		13171.2		0.0		0.0				core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4014.4		13171.3		0.0	0.0					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4023.5		13201.2		0.1	0.1					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4023.6		13201.3		0.1		0.1				core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4023.9		13202.3		0.1	0.1					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4024.3		13203.7		0.3	0.4					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4024.3		13203.8		0.2		0.3				core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4024.8		13205.3		0.2	0.3					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4025.0		13205.9		0.1	0.1					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4025.5		13207.8		0.1	0.2					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4025.6		13208.0		0.2		0.3				core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4026.3		13210.3		0.2	0.3					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4026.6		13211.4		0.2	0.2					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4026.9		13212.2		0.0	0.1					core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4026.9		13212.3		0.1		0.1				core	Core Lab	K spot (Klinkenberg corrected)
Angore 1	4027.6		13214.4		0.1	0.1					core	Core Lab	K spot (Klinkenberg corrected)
Aramia 1	324.0		1063.0		41.0						Core	Island Exp	
Aramia 1	324.3		1064.0		440.0						Core	Island Exp	
Aramia 1	676.9		2221.0		0.1						Core	Island Exp	
Aramia 1	996.3		3269.0		1.2						Core	Island Exp	
Aramia 1	1121.9		3681.0		0.1						Core	Island Exp	
Aramia 1	1315.1		4315.0		0.1						Core	Island Exp	
Aramia 1	1497.1		4912.0		3200.0						Core	Island Exp	
Aramia 1	1575.7		5170.0		0.1						Core	Island Exp	

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	K	Kh	Kv	K	K	K	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot	md	md	Av md	Min md	Max md			
Aramia 1	1600.7		5252.0		0.1						Core	Island Exp	
Aramia 1	1603.2		5260.0		1.1						Core	Island Exp	
Aramia 1	1675.7		5498.0		305.0						Core	Island Exp	
Aramia 1	1679.1		5509.0		0.1						Core	Island Exp	
Aramia 1	1744.6		5724.0		0.1						Core	Island Exp	
Aramia 1	1746.7		5731.0		0.1						Core	Island Exp	
Aramia 1	1809.5		5937.0		35.9						Core	Island Exp	
Aramia 1	1815.0		5955.0		0.8						Core	Island Exp	
Aramia 1	1872.9		6145.0		1.3						Core	Island Exp	
Aramia 1	1874.4		6150.0		0.1						Core	Island Exp	
Aramia 1	1937.8		6358.0		1.3						Core	Island Exp	
Aramia 1	1941.2		6369.0		13.1						Core	Island Exp	
Hedinia 1	2116.9		6945.5		390.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2117.1		6946.3		378.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2117.5		6947.5		170.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2117.8		6948.6		343.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2118.1		6949.4		428.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2118.4		6950.6		212.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2118.7		6951.5		263.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2119.0		6952.5		320.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2119.4		6953.6		389.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2119.6		6954.6		370.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2120.0		6955.6		14.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2120.2		6956.5		355.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2120.6		6957.8		2.9						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2120.9		6958.7		25.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2121.3		6959.9		16.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2121.4		6960.4		151.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2121.8		6961.5		51.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2122.1		6962.5		55.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2122.4		6963.5		2.7						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2122.6		6964.3		0.1						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2123.0		6965.4		0.1						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2123.3		6966.5		0.1						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2123.5		6967.3		2.8						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2123.9		6968.6		241.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2124.2		6969.6		411.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2124.6		6970.9		698.0						core	Petr. Service Inc	Permeability by air injection

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	K Spot	Kh md	Kv md	K Av md	K Min md	K Max md	Source	Who	Comments
Hedinia 1	2124.9		6971.7		1470.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2125.1		6972.6		1800.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2125.4		6973.6		28.0						core	Petr. Service Inc	Permeability by air injection
Hedinia 1	2125.8		6974.7		335.0						core	Petr. Service Inc	Permeability by air injection
Iagifu 1	2456.1		8058.5			115.0					core	Core Lab	Permeability by air injection
Iagifu 1	2456.4		8059.5			196.0	179.0				core	Core Lab	Permeability by air injection
Iagifu 1	2456.6		8060.0		188.0						core	Core Lab	Special core analysis
Iagifu 1	2456.7		8060.5			196.0					core	Core Lab	Permeability by air injection
Iagifu 1	2457.0		8061.5			47.0					core	Core Lab	Permeability by air injection
Iagifu 1	2457.3		8062.5			3.8					core	Core Lab	Permeability by air injection
Iagifu 1	2457.6		8063.5			5.3	1.6				core	Core Lab	Permeability by air injection
Iagifu 1	2457.9		8064.5			1.9					core	Core Lab	Permeability by air injection
Iagifu 1	2458.2		8065.5			2.0					core	Core Lab	Permeability by air injection
Iagifu 1	2458.4		8066.0		0.3						core	Core Lab	Special core analysis
Iagifu 1	2458.5		8066.5			1.3					core	Core Lab	Permeability by air injection
Iagifu 1	2458.9		8067.5			1.1					core	Core Lab	Permeability by air injection
Iagifu 1	2459.2		8068.5			0.4	0.2				core	Core Lab	Permeability by air injection
Iagifu 1	2459.5		8069.5			0.4					core	Core Lab	Permeability by air injection
Iagifu 1	2459.6		8070.0		0.4						core	Core Lab	Special core analysis
Iagifu 1	2459.8		8070.5			0.6					core	Core Lab	Permeability by air injection
Iagifu 1	2460.1		8071.5			0.3					core	Core Lab	Permeability by air injection
Iagifu 1	2460.4		8072.5			0.4					core	Core Lab	Permeability by air injection
Iagifu 1	2460.7		8073.5			1.9					core	Core Lab	Permeability by air injection
Iagifu 1	2461.0		8074.5			2.1	0.4				core	Core Lab	Permeability by air injection
Iagifu 1	2461.3		8075.5			0.2					core	Core Lab	Permeability by air injection
Iagifu 1	2461.6		8076.5			59.0					core	Core Lab	Permeability by air injection
Iagifu 1	2461.7		8077.0		9.1						core	Core Lab	Special core analysis
Iagifu 1	2461.9		8077.5			61.0					core	Core Lab	Permeability by air injection
Iagifu 1	2462.2		8078.5			3.5					core	Core Lab	Permeability by air injection
Iagifu 1	2462.5		8079.5			1.1					core	Core Lab	Permeability by air injection
Iagifu 1	2462.8		8080.5			2.8	1.1				core	Core Lab	Permeability by air injection
Iagifu 1	2463.1		8081.5			3.8					core	Core Lab	Permeability by air injection
Iagifu 1	2463.4		8082.5			0.6					core	Core Lab	Permeability by air injection
Iagifu 1	2463.7		8083.5			0.7					core	Core Lab	Permeability by air injection
Iagifu 1	2464.0		8084.5			0.4					core	Core Lab	Permeability by air injection
Iagifu 1	2464.2		8085.0		0.1						core	Core Lab	Special core analysis
Iagifu 1	2464.6		8086.5			0.8					core	Core Lab	Permeability by air injection
Iagifu 1	2465.1		8088.0			1.0					core	Core Lab	Permeability by air injection

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	K	Kh	Kv	K	K	K	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot	md	md	Av md	Min md	Max md			
Iagifu 1	2465.4		8089.0			1.7					core	Core Lab	Permeability by air injection
Iagifu 1	2465.7		8090.0			0.7	0.6				core	Core Lab	Permeability by air injection
Iagifu 1	2466.0		8091.0		5.7	2.8					core	Core Lab	Permeability by air injection
Iagifu 1	2466.3		8092.0			3.2					core	Core Lab	Permeability by air injection
Iagifu 1	2466.6		8093.0			1.0					core	Core Lab	Permeability by air injection
Iagifu 1	2466.9		8094.0			40.0					core	Core Lab	Permeability by air injection
Iagifu 1	2467.2		8095.0			8.3					core	Core Lab	Permeability by air injection
Iagifu 1	2467.5		8096.0			0.5					core	Core Lab	Permeability by air injection
Iagifu 1	2467.8		8097.0			3.7					core	Core Lab	Permeability by air injection
Iagifu 1	2468.1		8098.0			283.0	81.0				core	Core Lab	Permeability by air injection
Iagifu 1	2468.5		8099.0		129.0	615.0					core	Core Lab	Permeability by air injection
Iagifu 1	2468.8		8100.0			315.0					core	Core Lab	Permeability by air injection
Iagifu 1	2469.1		8101.0			380.0					core	Core Lab	Permeability by air injection
Iagifu 1	2469.4		8102.0			121.0					core	Core Lab	Permeability by air injection
Iagifu 1	2469.7		8103.0			0.7					core	Core Lab	Permeability by air injection
Iagifu 1	2470.0		8104.0			1.8	1.5				core	Core Lab	Permeability by air injection
Iagifu 1	2471.5		8109.0			0.1					core	Core Lab	Permeability by air injection
Iagifu 1	2471.8		8110.0			495.0					core	Core Lab	Permeability by air injection
Iagifu 1	2472.1		8111.0			845.0	990.0				core	Core Lab	Permeability by air injection
Iagifu 1	2472.4		8112.0			2760.0					core	Core Lab	Permeability by air injection
Iagifu 1	2473.0		8114.0			3640.0					core	Core Lab	Permeability by air injection
Iagifu 1	2473.6		8116.0			3470.0					core	Core Lab	Permeability by air injection
Iagifu 1	2473.9		8117.0			3930.0					core	Core Lab	Permeability by air injection
Iagifu 1	2474.2		8118.0			3080.0	2270.0				core	Core Lab	Permeability by air injection
Iagifu 1	2474.6		8119.0			2620.0					core	Core Lab	Permeability by air injection
Iagifu 1	2475.0		8120.5			1920.0					core	Core Lab	Permeability by air injection
Iagifu 1	2475.3		8121.5			1610.0					core	Core Lab	Permeability by air injection
Iagifu 1	2475.6		8122.5			1560.0					core	Core Lab	Permeability by air injection
Iagifu 1	2475.8		8123.0		172.0						core	Core Lab	Special core analysis
Iagifu 1	2475.9		8123.5			2210.0					core	Core Lab	Permeability by air injection
Iagifu 1	2476.2		8124.5			1910.0					core	Core Lab	Permeability by air injection
Iagifu 1	2476.5		8125.5			1050.0					core	Core Lab	Permeability by air injection
Iagifu 1	2476.8		8126.5			2750.0					core	Core Lab	Permeability by air injection
Iagifu 1	2477.0		8127.0		925.0						core	Core Lab	Special core analysis
Iagifu 1	2477.1		8127.5			1640.0					core	Core Lab	Permeability by air injection
Iagifu 1	2477.4		8128.5			2260.0	1550.0				core	Core Lab	Permeability by air injection
Iagifu 1	2477.8		8129.5			1710.0					core	Core Lab	Permeability by air injection
Iagifu 1	2478.1		8130.5			875.0					core	Core Lab	Permeability by air injection

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	K Spot	Kh md	Kv md	K Av md	K Min md	K Max md	Source	Who	Comments
Iagifu 1	2478.2		8131.0		1070.0						core	Core Lab	Special core analysis
Iagifu 1	2478.4		8131.5			1890.0					core	Core Lab	Permeability by air injection
Iagifu 1	2478.7		8132.5			2250.0					core	Core Lab	Permeability by air injection
Iagifu 1	2479.0		8133.5			4210.0					core	Core Lab	Permeability by air injection
Iagifu 1	2484.5		8151.5			261.0					core	Core Lab	Permeability by air injection
Iagifu 1	2484.8		8152.5			231.0	333.0				core	Core Lab	Permeability by air injection
Iagifu 1	2484.9		8153.0		165.0						core	Core Lab	Special core analysis
Iagifu 1	2485.1		8153.5			123.0					core	Core Lab	Permeability by air injection
Iagifu 1	2485.4		8154.5			327.0					core	Core Lab	Permeability by air injection
Iagifu 1	2485.7		8155.5			244.0					core	Core Lab	Permeability by air injection
Iagifu 1	2486.0		8156.5			441.0	186.0				core	Core Lab	Permeability by air injection
Iagifu 1	2486.3		8157.5			304.0					core	Core Lab	Permeability by air injection
Iamara 1	402.0		1319.0			250.0	168.0				core	BMR	Analysis at BMR
Iamara 1	1026.8		3369.0			110.0	110.0				core	BMR	Analysis at BMR
Iamara 1	1070.7		3513.0			700.0	700.0				core	BMR	Analysis at BMR
Iamara 1	1184.4		3886.0			nil	nil				core	BMR	Analysis at BMR
Iamara 1	1278.9		4196.0			3.0	nil				core	BMR	Analysis at BMR
Iamara 1	1370.6		4497.0			nil	nil				core	BMR	Analysis at BMR
Iamara 1	1463.6		4802.0			nil	nil				core	BMR	Analysis at BMR
Iamara 1	1554.4		5100.0			nil					core	BMR	Analysis at BMR
Iamara 1	1656.8		5436.0			15.0	8.0				core	BMR	Analysis at BMR
Iamara 1	1744.9		5725.0			10.0	10.0				core	BMR	Analysis at BMR
Iehi 1	1439.3		4722.3		3.3						core	PNG F/R/86-3	Analysis by BP Research
Iehi 1	1445.4		4742.4		94.0						core	PNG F/R/86-3	Analysis by BP Research
Iehi 1	1602.6		5258.1		350.0						core	PNG F/R/86-3	Analysis by BP Research
Iehi 1	1603.5		5261.1		450.0						core	PNG F/R/86-3	Analysis by BP Research
Iehi 1	1605.4		5267.3		770.0						core	PNG F/R/86-3	Analysis by BP Research
Iehi 1	1615.1		5299.1		35.0						core	PNG F/R/86-3	Analysis by BP Research
Iehi 1	1682.5		5520.3		14.0						core	PNG F/R/86-3	Analysis by BP Research
Kanau 1	3475.3		11402.5			0.7					core	PNG Petroleum	Analysis done at well site
Kanau 1	3476.2		11405.5			0.9					core	PNG Petroleum	Analysis done at well site
Kanau 1	3477.2		11408.5			0.8					core	PNG Petroleum	Analysis done at well site
Kanau 1	3478.9		11414.4			0.8					core	PNG Petroleum	Analysis done at well site
Komewu 1	173.4		568.9		190.0						core	PNG F/R/86-3	
Komewu 1	369.4		1212.0		167.0						core	PNG F/R/86-3	
Komewu 1	481.6		1580.1		0.2						core	PNG F/R/86-3	
Komewu 1	621.5		2039.1		0.1						core	PNG F/R/86-3	
Komewu 1	767.8		2519.1		nil						core	PNG F/R/86-3	

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	K Spot	Kh md	Kv md	K Av md	K Min md	K Max md	Source	Who	Comments
Komewu 1	876.6		2876.1		0.3						core	PNG F/R/86-3	
Komewu 1	940.6		3086.1		nil						core	PNG F/R/86-3	
Komewu 1	1038.7		3408.0		nil						core	PNG F/R/86-3	
Komewu 1	1136.9		3730.2		nil						core	PNG F/R/86-3	
Komewu 1	1254.8		4117.0		nil						core	PNG F/R/86-3	
Komewu 1	1390.8		4563.2		nil						core	PNG F/R/86-3	
Komewu 1	1453.3		4768.3		nil						core	PNG F/R/86-3	
Komewu 1	1603.8		5262.1		0.6						core	PNG F/R/86-3	
Komewu 1	1675.2		5496.3		24.0						core	PNG F/R/86-3	
Komewu 1	1687.7		5537.3		0.1						core	PNG F/R/86-3	
Komewu 1	1730.3		5677.1		0.4						core	PNG F/R/86-3	
Komewu 1	1781.5		5845.1		5.5						core	PNG F/R/86-3	
Komewu 2	1545.3		5070.1		0.7						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	1615.7		5301.1		2.0						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	1763.3		5785.4		nil						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2236.9		7339.3		0.5						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2338.7		7673.3		0.6						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2537.1		8324.2		nil						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2845.3		9335.4		79.0						core	Island Explor	Also listed in PNG F/R/86-3
Komewu 2	2862.7		9392.5		2.5						core	Island Explor	Also listed in PNG F/R/86-3
Kusa 1	2488.4		8164.3			276.0					Core	ESSO	Core 1 (8132'-8170')
Kusa 1	2489.6		8168.5			72.0					Core	ESSO	Core 1 (8132'-8170')
Lavani 1	658.6		2160.9		0.8						SWC	Core Lab	
Lavani 1	1007.6		3305.9		72.0						SWC	Core Lab	
Lavani 1	1018.3		3340.9		91.0						SWC	Core Lab	
Lavani 1	1161.3		3810.1		82.0						SWC	Core Lab	
Lavani 1	1191.7		3910.0		42.0						SWC	Core Lab	
Lavani 1	1194.7		3919.7		72.0						SWC	Core Lab	
Lavani 1	1432.4		4699.7		0.2						SWC	Core Lab	
Lavani 1	1558.0		5111.8		0.2						SWC	Core Lab	
Lavani 1	1654.4		5428.0		80.0						SWC	Core Lab	
Lavani 1	1871.3		6139.8		0.8						SWC	Core Lab	
Lavani 1	2710.8		8894.0		26.5						SWC	Core Lab	
Lavani 1	2724.9		8940.3		23.7						SWC	Core Lab	
Lavani 1	2735.2		8974.2		13.0						SWC	Core Lab	
Lavani 1	2739.0		8986.8		21.5						SWC	Core Lab	
Magobu Is. 1	378.2		1241.0			112.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	922.3		3026.0			6.0					core	Core Lab	Report for Endeavour Oil

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	K	Kh	Kv	K	K	K	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot	md	md	Av md	Min md	Max md			
Magobu Is. 1	922.6		3027.0			13.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	922.9		3028.0			28.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	923.2		3029.0			5.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	923.5		3030.0			28.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1305.7		4284.0			28.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1306.3		4286.0			78.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1307.5		4290.0			16.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1513.9		4967.0			54.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1514.8		4970.0			2.6					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1515.4		4972.0			2.6					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1516.6		4976.0			1.7					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1517.2		4978.0			0.1					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1518.1		4981.0			0.1					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1519.0		4984.0			5.4					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1519.4		4985.0			154.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	1520.0		4987.0			1.7					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2064.9		6775.0			530.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2065.5		6777.0			21.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2066.1		6779.0			10.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2066.7		6781.0			99.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2067.4		6783.0			266.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2068.0		6785.0			210.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2068.6		6787.0			105.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2069.2		6789.0			10.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2069.8		6791.0			111.0					core	Core Lab	Report for Endeavour Oil
Magobu Is. 1	2070.4		6793.0			18.0					core	Core Lab	Report for Endeavour Oil
Mananda 3	2441.0		8008.8		121.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2441.2		8009.6		81.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2441.6		8010.9		202.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2441.9		8011.9		209.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2442.0		8012.4		248.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2442.5		8013.9		131.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2442.7		8014.7		218.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2443.0		8015.5		5.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2446.1		8025.8		89.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2446.4		8026.7		54.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2446.5		8027.1		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2447.4		8029.8		57.0						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	K	Kh	Kv	K	K	K	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot	md	md	Av md	Min md	Max md			
Mananda 3	2447.6		8030.7		81.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2447.8		8031.3		69.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2449.2		8035.8		4.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2449.5		8036.8		9.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2449.8		8037.9		26.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2450.0		8038.6		22.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2451.5		8043.5		4.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2452.0		8045.0		0.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2452.2		8045.7		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2454.7		8053.8		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2455.0		8054.8		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2455.3		8055.8		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2455.4		8056.1		0.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2455.7		8057.1		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2457.4		8062.7		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2457.6		8063.3		1.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2459.3		8069.1		64.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2459.7		8070.2		93.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2460.0		8071.1		61.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2460.3		8072.1		36.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2462.0		8077.9		5.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2462.3		8078.9		43.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2462.6		8079.9		39.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2462.9		8080.8		79.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2463.0		8081.2		13.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2463.7		8083.3		119.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2463.9		8084.2		11.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2464.2		8085.2		50.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2465.4		8089.1		4.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2465.7		8090.1		0.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2466.7		8093.3		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2467.0		8094.2		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2468.8		8100.1		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2469.1		8101.2		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2469.4		8102.2		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2469.7		8103.1		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2471.0		8107.5		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2471.2		8108.1		0.1						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	K Spot	Kh md	Kv md	K Av md	K Min md	K Max md	Source	Who	Comments
Mananda 3	2471.5		8109.2		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2471.8		8110.1		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2472.4		8111.9		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2480.8		8139.4		958.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2482.3		8144.3		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2482.7		8145.7		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2483.5		8148.2		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2486.5		8158.4		7.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2488.1		8163.4		4.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2488.9		8166.2		0.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2489.5		8167.9		27.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2489.9		8169.2		95.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2498.4		8197.3		5.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2499.0		8199.2		54.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2500.5		8204.3		22.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2500.8		8205.2		26.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2501.1		8206.1		13.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2501.4		8207.1		4.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2501.7		8208.1		6.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2502.0		8209.2		8.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2502.3		8210.1		4.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2502.6		8211.2		8.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2503.8		8215.1		3.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2504.1		8216.1		3.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2508.7		8231.2		9.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2509.1		8232.4		0.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2509.4		8233.2		5.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2509.7		8234.3		6.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2510.9		8238.2		13.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2511.2		8239.2		78.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2512.5		8243.5		3.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2512.7		8244.3		17.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2513.0		8245.1		9.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2514.2		8249.1		27.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2514.5		8250.2		244.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2515.0		8251.6		4.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2515.1		8252.1		1.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2515.6		8253.6		592.0						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	K Spot	Kh md	Kv md	K Av md	K Min md	K Max md	Source	Who	Comments
Mananda 3	2515.8		8254.2		498.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2517.0		8258.4		704.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2518.2		8262.1		37.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2518.5		8263.1		50.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2518.8		8264.1		3.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2519.1		8265.1		4.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2519.4		8266.1		1.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2519.9		8267.8		454.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2520.2		8268.9		409.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2520.5		8269.7		227.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2520.7		8270.5		0.7						core	Petr. Service Inc	Report for Chevron
Mananda 3	2520.9		8271.2		0.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2521.3		8272.3		11.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2521.6		8273.3		88.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2522.0		8274.7		54.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2522.3		8275.7		715.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2526.1		8288.1		5.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2526.4		8289.2		7.6						core	Petr. Service Inc	Report for Chevron
Mananda 3	2527.6		8293.1		1.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2528.0		8294.4		454.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2528.2		8295.1		496.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2528.6		8296.5		0.8						core	Petr. Service Inc	Report for Chevron
Mananda 3	2528.9		8297.4		30.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2529.2		8298.3		732.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2529.4		8299.1		48.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2530.7		8303.3		2.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2532.0		8307.6		5.3						core	Petr. Service Inc	Report for Chevron
Mananda 3	2533.5		8312.3		10.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2533.7		8313.2		8.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2534.0		8314.1		14.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2534.3		8315.0		77.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2534.6		8316.0		4.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2535.2		8318.1		191.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2535.5		8319.1		246.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2536.8		8323.1		247.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2537.1		8324.1		54.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2537.4		8325.1		524.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2537.8		8326.6		489.0						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	K	Kh	Kv	K	K	K	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot	md	md	Av md	Min md	Max md			
Mananda 3	2538.1		8327.6		428.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2538.3		8328.2		6.4						core	Petr. Service Inc	Report for Chevron
Mananda 3	2538.6		8329.1		877.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2539.0		8330.5		347.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2540.1		8334.1		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2540.4		8335.2		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2540.7		8336.1		214.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2541.1		8337.4		51.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2541.4		8338.3		304.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2543.0		8343.5		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2543.2		8344.1		17.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2543.5		8345.1		208.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2543.8		8346.1		77.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2544.4		8348.3		45.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2544.7		8349.1		151.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2550.3		8367.5		249.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2551.4		8371.1		78.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2551.7		8372.1		38.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2552.0		8373.1		96.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2552.4		8374.4		76.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2552.6		8375.1		1.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2552.9		8376.1		1.5						core	Petr. Service Inc	Report for Chevron
Mananda 3	2553.2		8377.2		2.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2553.5		8378.1		0.9						core	Petr. Service Inc	Report for Chevron
Mananda 3	2553.8		8379.1		53.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2554.1		8380.1		93.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2554.5		8381.2		129.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2554.8		8382.2		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2555.0		8383.1		7.2						core	Petr. Service Inc	Report for Chevron
Mananda 3	2555.4		8384.4		2190.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2555.9		8385.8		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2556.0		8386.1		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2556.2		8387.1		104.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2556.6		8388.1		219.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2557.0		8389.6		7.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2557.2		8390.1		203.0						core	Petr. Service Inc	Report for Chevron
Mananda 3	2557.5		8391.1		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2557.8		8392.1		0.1						core	Petr. Service Inc	Report for Chevron

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	K Spot	Kh md	Kv md	K Av md	K Min md	K Max md	Source	Who	Comments
Mananda 3	2558.1		8393.1		0.1						core	Petr. Service Inc	Report for Chevron
Mananda 3	2558.4		8394.1		0.1						core	Petr. Service Inc	Report for Chevron
Morehead 1	624.8		2050.0		12.6						core	Aust Pet Co (APC)	
Morehead 1	810.7		2660.0		0.3						core	Aust Pet Co (APC)	
Morehead 1	877.2		2878.0		7.3						core	Aust Pet Co (APC)	
Morehead 1	945.4		3102.0		0.3						core	Aust Pet Co (APC)	
Morehead 1	1011.0		3317.0		0.1						core	Aust Pet Co (APC)	
Morehead 1	1262.1		4141.0		94.5						core	Aust Pet Co (APC)	
Morehead 1	1331.6		4369.0		115.6						core	Aust Pet Co (APC)	
Morehead 1	1398.7		4589.0		0.6						core	Aust Pet Co (APC)	
Morehead 1	1466.6		4812.0		2.6						core	Aust Pet Co (APC)	
Morehead 1	1533.1		5030.0		0.9						core	Aust Pet Co (APC)	
Morehead 1	1601.3		5254.0		0.1						core	Aust Pet Co (APC)	
Morehead 1	1601.3		5254.0		0.1						core	Aust Pet Co (APC)	
Morehead 1	1670.5		5481.0		0.4						core	Aust Pet Co (APC)	
Morehead 1	1734.5		5691.0		0.3						core	Aust Pet Co (APC)	
Morehead 1	2033.8		6673.0		0.1						core	Aust Pet Co (APC)	
Morehead 1	2110.9		6926.0		7.7						core	Aust Pet Co (APC)	
Morehead 1	2169.8		7119.0		nil						core	Aust Pet Co (APC)	
Morehead 1	2230.1		7317.0		1323.0						core	Aust Pet Co (APC)	
Morehead 1	2264.6		7430.0		nil						core	Aust Pet Co (APC)	
Morehead 1	2295.0		7530.0		386.0						core	Aust Pet Co (APC)	
Morehead 1	2321.2		7616.0		64.0						core	Aust Pet Co (APC)	
Morehead 1	2338.9		7674.0		11.6						core	Aust Pet Co (APC)	
Morehead 1	2405.7		7893.0		6.8						core	Aust Pet Co (APC)	
Morehead 1	2427.6		7965.0		72.9						core	Aust Pet Co (APC)	
Moriglo 1	2788.0	2835.0	9147.4	9301.6					200.0	900.0	report	OPIC	
Moriglo 1	2792.0		9160.6		900.0						RFT	OPIC	
Moriglo 1	2806.0		9206.5			740.6	521.3				core	Robertson Gp	
Moriglo 1	2806.3		9207.5			777.5	624.9				core	Robertson Gp	
Moriglo 1	2806.6		9208.5			652.0	98.5				core	Robertson Gp	
Moriglo 1	2806.9		9209.4			462.5	103.2				core	Robertson Gp	
Moriglo 1	2810.0		9219.6		400.0						RFT	OPIC	
Moriglo 1	2830.0		9285.2		200.0						RFT	OPIC	
Moriglo 1	3265.0	3304.0	10712.5	10840.4				0.4			DST	OPIC	
Moriglo 1	3265.0	3304.0	10712.5	10840.4				6.0			SWC	Robertson Gp	
Moriglo 1	3275.0		10745.3		6.0						SWC	Robertson Gp	Nitrogen Permeability
Moriglo 1	3554.5		11662.3		0.0						RFT	OPIC	

WELL NAME	Top Depth	Base Depth	Top Depth	Base Depth	K	Kh	Kv	K	K	K	Source	Who	Comments
	m RT	m RT	Feet RT	Feet RT	Spot	md	md	Av md	Min md	Max md			
Moriglo 1	3554.6		11662.6		14.0						SWC	Robertson Gp	Nitrogen Permeability
Moriglo 1	3879.0	3936.0	12727.0	12914.0				0.1			DST	OPIC	
Omati 1	10.7	822.9	35.0	2700.0					200.0	400.0	report	Aust Pet Co (APC)	
Omati 1	3067.7	3801.3	10065.0	12472.0						200.0	report	Aust Pet Co (APC)	
Omati 1	3176.6		10422.4		194.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	3179.7		10432.6		5.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	3227.8		10590.4		5.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	3515.5		11534.4		246.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	3517.4		11540.6		5.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	3711.2		12176.4		5.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	3742.0		12277.5		5.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	4192.2		13754.6		5.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	4196.8		13769.7		5.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	4217.5		13837.6		5.0						core	PNG F/R/86-3	Report from PNG Dept
Omati 1	4218.7		13841.6		5.0						core	PNG F/R/86-3	Report from PNG Dept

AGSO

AUSTRALIAN GEOLOGICAL
SURVEY ORGANISATION

AUSTRALIAN PETROLEUM SYSTEMS PROJECT

PAPUAN BASIN MODULE

APPENDIX 6 : HYDROCARBON SHOWS DATA

Hydrocarbon Indication Definitions and Codes

NS	No Show	
L1	Oil Indication	Fluorescence or cut.
L2	Strong Oil Indication	Fluorescence or cut & other oil indication. eg. log anomaly.
L3	Oil Show	Oil recovered from core, test, mud.
L4	Potential Oil Zone	Oil show with convincing log anomaly.
L5	Proven Oil Zone	Oil flow on test, or RFT & log anomaly proving an accumulation (no economic implications).
G1	Gas Indication	Anomalously high gas reading.
G2	Strong Gas Indication	Anomalously high gas reading and other indication eg. from core, logs, or shakers.
G3	Gas Show	Gas flowed on test.
G4	Potential Gas Zone	Gas show with convincing log anomaly or other indication.
G5	Proven Gas Zone	Sustained gas flow on test, or RFT & log anomaly or pressure data, proving an accumulation (no economic implications).
GC3	Gas and Condensate Show	Gas & Condensate flowed on test.
GC4	Potential Gas and Condensate Zone	Gas & Condensate show with convincing log anomaly or other indication.
GC5	Proven Gas and Condensate Zone	Sustained Gas & Condensate flow on test, or RFT & log anomaly or pressure data, proving an accumulation (no economic implications).
GL1	Gas and Oil Indication	Anomalously high gas reading and flourescence or cut.
GL2	Strong Gas and Oil Indication	Anomalously high gas reading and other gas indication and flouorescence or cut and other oil indication.
GL3	Gas and Oil Show	Gas flowed on test and oil recovered.
GL4	Potential Gas and Oil Zone	Gas & oil show with convincing log anomaly or other indication.
GL5	Proven Gas and Oil Zone	Sustained gas flow & oil flow on test, or RFT & log anomaly or pressure data, proving an accumulation (no economic implications).

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Show Type	Comments
Angore 1	3996.0	4004.0	13110.9	13137.1	GC5	DST 3 flowed 118-176 BCPD & 9.1-11.9MMCFD gas
Angore 1	4031.0	4049.2	13225.7	13285.4	GC5	DST 2 flowed 108-290 BCPD & 8.3-15.3MMCFD gas (includes interval 4053-4061m)
Angore 1	4053.5	4061.0	13299.5	13324.1	GC5	DST 2 flowed 108-290 BCPD & 8.3-15.3MMCFD gas (includes interval 4031-4049.2m)
Angore 1	4112.0	4120.5	13491.5	13519.4	GC5	DST 1 flowed 113-121BCPD & 7.49-7.83MMCFD gas
Angore 1	4157.0		13639.1		G1	Total gas up to 466 units, with C1-C5
Angore 1	4202.0		13786.8		G1	Total gas up to 712 units, with C1-C5
Angore 1	4216.0		13832.7		G1	Total gas up to 1550 units, with C1-C5
Aramia 1	1708.0	1711.7	5604.0	5616.0	G1	Packer test 8 recovered 130 cu.ft of brine, with about 10 litres of methane gas per cu.ft of brine
Aramia 1	1801.3	1804.9	5910.0	5922.0	G1	Packer test 7 recovered 130 cu.ft of brine, with about 10 litres of methane gas per cu.ft of brine
Aramia 1	1908.0	1920.8	6260.0	6302.0	G1	Packer test 4 recovered 150 cu.ft of brine, with about 5 litres of methane gas per cu.ft of brine
Barikewa 1	1666.6	1672.7	5468.0	5488.0	G5	Max flow rate 6.1MMCFD with some mud/water, gas flow rate below 3.5MMCFD is water free.
Barikewa 1	1827.8	1833.3	5997.0	6015.0	G5	Max flow rate 9.15MMCFD with some mud/water, gas flow rate below 4MMCFD is water free.
Elevala 1	2429	2438	7969.5	7999.1	G1	Total gas up to 2%, with C1(12950ppm) and C2(153ppm)
Elevala 1	2570	2585	8432.2	8481.4	G1	Total gas up to 5.7%, with C1(38850ppm) C2(3060ppm) C3(44ppm), trip gas
Elevala 1	3056	3216	10026.7	10551.7	G2	Total gas max 7.7%, C1(max 70707ppm) C2(max 12240ppm) C3(max 9945ppm) nC4(max 990ppm)
Elevala 1	3060	3072	10039.9	10079.2	GC5	DST 1 flowed 11.9MMCFD of gas, 634 BCPD and 36 BWPD
Goari 1	2700	2780	8858.7	9121.2	L1	Up to 30% dull fluorescence, with weak cut to crushcut fluorescence
Goaribari 1	2492	2528	8176.3	8294.4	G1	Total gas up to 6.37%, with C1(87442ppm) C2(17780ppm) C3(359ppm)
Goaribari 1	3412	3838	11194.8	12592.5	GL1	Trace C2,C3 and C4, with minor cut fluorescence in claystone cuttings and SWCs
Hedinia 1	2057.3	2103.0	6750.0	6900.0	G2	Gas reading up to 120 units, with C1-C5, resistivity log anomaly
Hedinia 1	2058.2	2070.4	6753.0	6793.0	G3	Rathole test 1: unknown? quantity of gas flowed to surface (C1=82.2%, C2-C5=16.2%,CO2=1.6%)
Hedinia 1	2116.7	2125.9	6945.0	6975.0	L2	Core 1: light oil staining, gold fluorescence, resistivity log anomaly
Hedinia 1	2118.3	2133.5	6950.0	7000.0	G2	Gas reading up to 83 units, with C1-C5, resistivity log anomaly
Hedinia 1	2153.0	2167.0	7064.0	7110.0	GC5	DST 6: Flowed 48 BCPD (65 deg API) and 5.8MMCFD of gas.
Hedinia 1	2164.0	2173.1	7100.0	7130.0	G2	Gas reading up to 68 units, with C1-C5, resistivity log anomaly
Hedinia 1	2241.7	2252.4	7355.0	7390.0	G2	Gas reading up to 78 units, with C1-C5, resistivity log anomaly
Hedinia 1	2243.2	2252.4	7360.0	7390.0	GC5	DST 5: Flowed 61 BCPD (63.8 deg API) and 5.72MMCFD of gas
Hedinia 1	2256.6	2259.1	7404.0	7412.0	GC5	DST 5: Flowed 61 BCPD (63.8 deg API) and 5.72MMCFD of gas
Hedinia 1	2333.1	2339.2	7655.0	7675.0	G2	Gas reading up to 180 units, with C1-C5, resistivity log anomaly
Hedinia 1	2334.7	2342.0	7660.0	7684.0	GL5	DST 4: Flowed 90 BOPD (48.5 deg API) and 0.11MMCFD of gas
Hedinia 1	2351.4	2359.0	7715.0	7740.0	G2	Gas reading up to 270 units, with C1-C5, resistivity log anomaly
Hedinia 1	2365.7	2379.2	7762.0	7806.0	L3	DST 3: tight test, reversed out 11 bbls of oil (45.6 deg API)
Hedinia 1	2366.7	2378.8	7765.0	7805.0	G2	Gas reading up to 240 units, with C1-C5, resistivity log anomaly

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Show Type	Comments
Hedinia 1	2394.1	2403.2	7855.0	7885.0	G2	Gas reading up to 280 units, with C1-C5, resistivity log anomaly
Hedinia 1	2395.6	2403.5	7860.0	7886.0	L3	DST 2: tight test, reversed out 0.5 bbl of oil
Hedinia 1	2490.1	2500.8	8170.0	8205.0	G2	Gas reading up to 93 units, with C1-C5, resistivity log anomaly
Hedinia 1	2515.1	2531.2	8252.0	8305.0	G2	Gas reading up to 70 units, with C1-C5, resistivity log anomaly
Iagifu 2	2431.6	2449.9	7978.0	8038.0	G2	Gas readings were between 12-5 units, with C1-C4, resistivity log anomaly
Iagifu 2	2431.9	2437.7	7979.0	7998.0	GC5	DST 3: flowed 174 BCPD (67.1 deg API) and 11.8MMCFD of gas on 0.75" choke
Iagifu 2	2449.9	2541.9	8038.0	8340.0	G2	Gas readings were between 10-50 units, with C1-C5, resistivity log anomaly
Iagifu 2	2449.9	2546.2	8038.0	8354.0	GL5	DST 2: flowed 1921 BOPD (46 deg API) and 10.7MMCFD of gas on 1" choke
Iagifu 2	2456.0	2465.1	8058.0	8088.0	L4	Core 1: patchy bright green/yellow fluorescence on fresh surface, instant blue/white cut
Iagifu 2	2465.1	2473.8	8088.0	8116.5	L4	Core 2: Oil with occ gas bleeding, 100% yel/white flr on fresh surface, instant blue/white cut
Iagifu 2	2473.8	2474.7	8116.5	8119.5	L4	Core 3: light brown oil bleeding, 100% yel/white flr on fresh surface, instant blue/white cut
Iagifu 2	2474.9	2479.1	8120.0	8134.0	L4	Core 4: Pinpoint gas bleeding, 100% yel/white flr on fresh surface, instant blue/white cut
Iagifu 2	2476.4	2489.5	8125.0	8168.0	GL5	DST 6: flowed 2844 BOPD (45 deg API) and 5.3MMCFD of gas on 1" choke
Iagifu 2	2484.3	2486.6	8151.0	8158.5	L4	Core 5: Amber oil bleeding, 100% yel/white flr on fresh surface, instant blue/white cut
Iagifu 2	2490.4	2491.9	8171.0	8176.0	G2	Gas reading peaked at 89 units, with C1-C5
Iagifu 2	2508.4	2525.4	8230.0	8286.0	GL5	DST 5: flowed 3328 BOPD (44.8 deg API), 4.2MMFCD of gas, 2 BWPD on 1.5" choke
Iagifu 2	2525.8	2535.8	8287.0	8320.0	GL5	DST 4: flowed 2230 BOPD (45 deg API), 2.4MMCFD of gas, 4 BWPD on 1" choke
Iagifu 2	2541.9	2682.1	8340.0	8800.0	G2	Gas reading were between 4-8 units, with C1-C4, resistivity log anomaly
Iamara 1	1184.4		3886.0		L1	Core 11, Strong solvent fluorescence
Iamara 1	1278.9		4196.0		L3	Core 12, oil extract, strong bright whitish yellow fluorescence
Iamara 1	1370.6		4497.0		L1	Core 13, Fair solvent fluorescence
Iamara 1	1463.6		4802.0		L3	Core 14, oil extract, strong bright whitish yellow fluorescence
Iamara 1	1554.4		5100.0		L3	Core 15, oil extract, strong bright whitish yellow fluorescence
Iamara 1	1656.8		5436.0		L3	Core 16, oil extract, strong bright whitish yellow fluorescence
Iamara 1	1744.9		5725.0		L3	Core 17, oil extract, strong bright whitish yellow fluorescence
Iehi 1	989.3	995.4	3246.0	3266.0	L1	Core 19 showed rare dull fluorescence spots
Iehi 1	1076.5	1080.2	3532.0	3544.0	L1	Core 20 showed rare dull fluorescence spots
Iehi 1	1438.6	1449.9	4720.0	4757.0	L1	Cuttings: spots of yellow fluorescence
Iehi 1	1439.2	1445.6	4722.0	4743.0	G5	Perf. interval DST 12 flowed gas from 5.4-32.0MMCFD(incl. perfs at 4785-4791 & 4820-4835 feet)
Iehi 1	1439.2	1456.3	4722.0	4778.0	G5	Perf. interval of DST 13 flowed gas ranging from 7.6MMCFD to 32.6MMCFD
Iehi 1	1452.6	1456.3	4766.0	4778.0	G5	Perf. interval DST 12 flowed gas from 5.4-32.0MMCFD(incl. perfs at 4785-4791 & 4820-4835 feet)
Iehi 1	1458.4	1460.2	4785.0	4791.0	G5	Perf. interval of DST 13 flowed gas ranging from 7.6MMCFD to 32.6MMCFD
Iehi 1	1469.1	1473.6	4820.0	4835.0	G5	Perf. interval of DST 13 flowed gas ranging from 7.6MMCFD to 32.6MMCFD

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Show Type	Comments
Iehi 1	1599.8	1602.9	5249.0	5259.0	L3	Core 30 showed bright yellow fluorescence, with small amount of oil extracted
Iehi 1	2694.3	2701.3	8840.0	8863.0	G3	Perf. interval of DST 2 flowed gas up to 200 cu.ft per day (tight?)
Iehi 1	2722.3	2723.9	8932.0	8937.0	L1	Core 44 showed faint yellowish fluorescence
Irogobalu 1	2232.9		7326.0		G1	Total gas reading up to 101 units
Irogobalu 1	3035.7	3352.6	9960.0	11000.0	G1	Total background gas averaging 100-300 units, with C1 to C4
Juha 1	2605.9	2712.6	8550.0	8900.0	L1	Cuttings: weak blue white crush cut fluorescence
Juha 1	2712.6	3009.8	8900.0	9875.0	L1	Cuttings: weak slow yellow/white crush cut fluorescence
Juha 1	3009.8	3023.5	9875.0	9920.0	L1	Cuttings: weak pale yellow white streaming crush cut fluorescence
Juha 1	3087.5	3099.7	10130.0	10170.0	L1	Cuttings: slow weak pale yellow crush cut fluorescence
Juha 1	3108.8	3118.0	10200.0	10230.0	L1	Cuttings: instant bright yellow white cut fluorescence
Juha 1	3196.0	3225.5	10486.0	10583.0	GC5	DST 6/6-1 produced 27.369MMCF of gas over 62 hours with about 1801 BCPD
Juha 1	3250.8	3290.8	10666.0	10797.0	GC5	DST 5/5-1 produced 0.582 MMCF of gas over 36 hours, with about 2 bbls/day of condensate
Juha 1	3497.7	3502.6	11476.0	11492.0	G2	Total gas reading up to 350 units (gas shows C1-C6 peaks), resistivity log anomaly
Juha 1	3497.7	3701.6	11476.0	12145.0	L1	Cuttings: weak milky white to fair bright yellow cut fluorescence
Juha 1	3726.3	3741.5	12226.0	12276.0	G2	Total gas reading up to 186 units (gas shows C1-C6 peaks), resistivity log anomaly
Kanau 1	2355.0	2370.0	7726.8	7776.0	L1	Cuttings: Scattered bright yellow/gold fluorescence, moderate-strong milky white cut
Kanau 1	2390.0	2398.0	7841.6	7867.8	L1	Cuttings: Scattered bright yellow/gold fluorescence, moderate-strong milky white cut
Kanau 1	2415.0	2435.0	7923.6	7989.2	L1	Cuttings: Scattered bright yellow/gold fluorescence, fair-good yellow/milky white cut
Kanau 1	2855.0	2860.0	9367.3	9383.7	L1	Cuttings: Tr-20%light yellow fluorescence, poor white crush cut
Kanau 1	2925.0	2930.0	9596.9	9613.3	L1	Cuttings: Scattered bright yellow sample fluorescence, weak white cut
Kanau 1	2965.0	2970.0	9728.2	9744.6	L1	Cuttings: Scattered bright yellow sample fluorescence, weak white cut
Kanau 1	3025.0	3100.0	9925.0	10171.1	L1	Cuttings: Scattered bright yellow sample fluorescence, weak white crush cut
Kanau 1	3100.0	3125.0	10171.1	10253.1	L1	Cuttings: Scattered bright yellow sample fluorescence, weak white crush cut
Kanau 1	3180.0	3189.0	10433.6	10463.1	L1	Cuttings: Scattered bright yellow sample fluorescence, weak white crush cut
Kanau 1	3215.0	3220.0	10548.4	10564.8	L1	Cuttings: Scattered bright light yellow fluorescence, weak white crush cut
Kanau 1	3297.5	3400.0	10819.1	11155.4	L1	Cuttings: Scattered pale yellow fluorescence, weak crush cut
Kanau 1	3420.0	3497.0	11221.0	11473.7	L1	Cuttings: 20-70% light yellow/green sample fluorescence, occasional weak white crush cut
Kiunga 1	2065.0		6775.3		L1	SWC: light green fluorescence, very light green cut
Kiunga 1	2070.0		6791.7		L1	SWC: light green fluorescence, very light green cut
Kiunga 1	2074.0		6804.8		L1	SWC: light green fluorescence, no cut
Kiunga 1	2120.0		6955.7		G1	Total gas reading up to 100 units (gas chromatograph shows C1-C6 peaks)
Kiunga 1	2124.0		6968.8		G1	Total gas reading up to 390 units (gas chromatograph shows C1-C6 peaks)
Kiunga 1	2407.0	2417	7897.4	7930.2	G1	Total gas reading up to 780 units (trip gas reading with C1-C6 peaks)

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Show Type	Comments
Klunga 1	2920.0		9580.5		L1	SWC: blue yellow fluorescence, good to very good blue yellow cut
Klunga 1	2923.0		9590.4		L1	SWC: good to excellent bright yellow fluorescence, excellent bright yellow cut
Klunga 1	2926.5		9601.8		L1	SWC: trace yellow fluorescence, fair yellow cut
Klunga 1	2940.0		9646.1		L1	SWC: pale to bright yellow fluorescence, excellent bright yellow cut
Klunga 1	2945.0		9662.5		L1	SWC: fair yellow fluorescence, poor cut
Klunga 1	2957.0		9701.9		L1	SWC: trace yellow fluorescence, very poor cut
Klunga 1	2959.0		9708.5		L1	SWC: trace yellow fluorescence, very poor cut
Klunga 1	2961.0		9715.0		L1	SWC: trace yellow fluorescence, very poor cut
Klunga 1	2962.0		9718.3		L1	SWC: trace yellow fluorescence, very poor cut
Klunga 1	2963.0		9721.6		L1	SWC: trace yellow fluorescence, very poor cut
Klunga 1	2975.0		9761.0		L1	SWC: trace yellow fluorescence, very poor cut
Kusa 1	3072.8		10082.0		G1	SWC gas analysis C1(1050ppm) C2(97ppm) C3(840ppm) iC4(270ppm) nC4(624ppm)
Kusa 1	3095.4		10156.0		G1	SWC gas analysis C1(1700ppm) C2(395ppm) C3(151ppm) iC4(10ppm) nC4(36ppm)
Kusa 1	3205.4		10517.0		G1	SWC gas analysis C1(999ppm) C2(81ppm) C3(357ppm) iC4(60ppm) nC4(180ppm)
Kusa 1	3274.6		10744.0		G1	SWC gas analysis C1(238ppm) C2(45ppm) C3(75ppm) iC4(18ppm) nC4(35ppm)
Kusa 1	3427.6		11246.0		G1	Core gas analysis 357 ppm C1 (Core #2: 11230'-11265')
Kusa 1	3428.8		11250.0		L2	Oil scum on fluid retorted from 11,250 feet in Core #2.
Kusa 1	3429.3		11251.5		G1	Core gas analysis 51 ppm C1 (Core #2: 11230'-11265')
Kusa 1	3433.1		11264.0		G1	Core gas analysis 238 ppm C1 (Core #2: 11230'-11265')
Lavani 1	181.9	883.9	596.9	2900.0	L1	SWCs - very weak crush cut fluorescence
Lavani 1	1005.8	1103.3	3300.0	3620.0	G1	Reported gas shows? Total gas up to 320u C1-C5
Lavani 1	1106.3		3629.8		L1	SWC - very weak crush cut fluorescence
Lavani 1	1188.7	1371.5	3900.0	4500.0	G1	Reported gas shows? Total gas up to 938u C1-C5
Lavani 1	1190.5		3906.0		L1	SWC - very weak crush cut fluorescence
Lavani 1	1208.5	1210.3	3965.0	3971.0	L1	SWCs: dull brown fluorescence, moderately bright blue/white cut fluorescence
Lavani 1	1212.1		3977.0		L1	SWC: trace orange fluorescence, moderate blue/white cut fluorescence
Lavani 1	1214.6	1245.7	3985.0	4087.0	L1	SWCs: moderately bright blue/white cut fluorescence
Lavani 1	1250.2	1260.9	4102.0	4137.0	L1	SWCs: dull orange fluorescence, moderately bright yellow cut fluorescence
Lavani 1	1280.1		4200.0		L1	SWC: weak yellow crush cut fluorescence
Lavani 1	1325.8	1382.5	4349.9	4536.0	L1	SWCs: weak green/yellow crush cut fluorescence
Lavani 1	1414.2	1871.4	4640.0	6139.9	L1	SWCs: weak milky yellow/white crush cut fluorescence
Lavani 1	1895.8	1926.2	6220.0	6320.0	G1	Reported gas shows? Total gas up to 1490u C1-C5
Lavani 1	1905.5		6252.0		L1	SWC: weak milky yellow/white crush cut fluorescence

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Show Type	Comments
Lavani 1	1941.5		6370.2		L1	SWC: weak milky yellow/white crush cut fluorescence
Lavani 1	1999.4	2025.3	6560.0	6645.0	G1	Reported gas shows? Total gas up to 1350u C1-C5
Lavani 1	2039.7	2187.1	6692.1	7175.9	L1	SWCs: good yellowish blue crush cut fluorescence
Lavani 1	2078.6	2103.0	6820.0	6900.0	G1	Reported gas shows? Total gas up to 470u C1-C5
Lavani 1	2225.5	2267.5	7301.9	7439.8	L1	SWCs: weak milky yellow/white crush cut fluorescence
Lavani 1	2709.5	2725.7	8890.0	8943.0	G1	Reported gas shows (mainly 50% CO2 with some C1-C3)
Magobu Is 1	1024.1	1188.7	3360.0	3900.0	G1	Reported shale-gas kick 3-20 units of methane
Mananda 3	2438.3	2513.0	8000.0	8245.0	G1	Gas shows on mudlogs ranged from total gas 2-22 units
Mananda 3	2440.4	2446.8	8007.0	8027.8	L1	Core 1: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2446.8	2453.1	8028.0	8048.8	L1	Core 2: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2454.1	2463.3	8052.0	8082.0	L1	Core 3: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2463.3	2472.4	8082.0	8112.0	L1	Core 4: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2473.3		8115.0	8145.0	L3	Rec 2 bbls of oil, diesel & mud from DST 3, based on carbon isotope(76% diesel & 24% light oil)
Mananda 3	2480.3	2489.5	8138.0	8168.0	L1	Core 5: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2480.9		8139.8		L3	Core 5: fluid extract, GC/MS indicated light oil rather than condensate.
Mananda 3	2489.5	2498.6	8168.0	8197.8	L1	Core 6: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2498.6	2507.3	8198.0	8226.5	L1	Core 7: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2507.5	2515.9	8227.0	8254.6	L1	Core 8: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2516.6	2523.2	8257.0	8278.7	L1	Core 9: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2525.8	2534.9	8287.0	8317.0	L1	Core 10: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2534.9	2544.0	8317.0	8347.0	L1	Core 11: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2544.0	2545.0	8347.0	8350.0	L1	Core 12: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Mananda 3	2550.1	2559.3	8367.0	8397.0	L1	Core 13: fluorescence bright blue-white yellow to occ gold, & slow to instant cut
Morehead 1	2217.9	2222.8	7277.0	7293.0	G1	Reported gas cut mud in mud suction tank
Moriglo 1	3267.9	3270.9	10722.0	10731.8	L1	Hydrocarbon fluorescence seen in SWCs no. 27 and 28
Moriglo 1	3271.0	3289.0	10732.2	10791.2	L1	Cuttings:? 10% light yellow fluorescence, slow milky cut, light yellow/white cut residue flr
Moriglo 1	3271.0	3300.0	10732.2	10827.3	G1	Total gas ranged from 11-19% composed of C1-iC4
Moriglo 1	3272.1		10735.8		L1	Hydrocarbon fluorescence seen in SWC no. 26
Moriglo 1	3275.0		10745.3		L1	Hydrocarbon fluorescence seen in SWC no. 25
Moriglo 1	3289.0	3310.0	10791.2	10860.1	L1	Cuttings:? 5% dull-light yellow fluorescence, slow milky cut, light yellow cut residue flr
Moriglo 1	3298.0		10820.7		L1	Hydrocarbon fluorescence seen in SWC no. 21
Moriglo 1	3337.0		10948.7		L1	Hydrocarbon fluorescence seen in SWC no. 19
Moriglo 1	3412.0		11194.8		L1	Hydrocarbon fluorescence seen in SWC no. 16

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Show Type	Comments
Moriglo 1	3412.5		11196.4		L1	Hydrocarbon fluorescence seen in SWC no. 15
Moriglo 1	3554.6		11662.6		L1	Hydrocarbon fluorescence seen in SWC no. 8
Moriglo 1	3774.0	3778.0	12382.5	12395.6	L1	Cuttings:? 10% weak dull yellow fluorescence, no cut
Omati 1	1657.7	1660.8	5439.0	5449.0	L1	Cuttings/cores:? Slight trace of oil obtained from extraction
Omati 1	2374.0	2383.1	7789.0	7819.0	L1	Cuttings/cores:? Strong positive acetone reactions (fluorescence?)
Omati 1	2383.1	2780.2	7819.0	9122.0	L1	Cuttings/cores:? Minor positive acetone reactions (fluorescence?)
Omati 1	2727.8	2773.5	8950.0	9100.0	L3	One ounce of oil extracted from 40 lbs of cutting (0.4%vol)
Omati 1	2808.0	2819.3	9213.0	9250.0	L1	Cores showed brown patchy stains, with yellow fluorescence and cut fluorescence
Omati 1	3734.8		12254.0		G1	Reported gas show? Production test 12 tested gas bearing brine with gas/water ratio at 8.1
Omati 1	3917.1		12852.0		L1	Cuttings/cores:? Sohxlet extraction tests showed traces of oil with yellow/green fluorescence
Omati 1	3979.0		13055.0		L1	Cuttings/cores:? Sohxlet extraction tests showed traces of oil with yellow/green fluorescence
Omati 1	4039.9		13255.0		L1	Cuttings/cores:? Sohxlet extraction tests showed traces of oil with yellow/green fluorescence
Omati 1	4110.3		13486.0		L1	Cuttings/cores:? Sohxlet extraction tests showed traces of oil with yellow/green fluorescence
Omati 1	4161.8	4199.9	13655.0	13780.0	G2	Unknown quantity of gas produced?
Omati 1	4168.9		13678.0		L1	Cuttings/cores:? Sohxlet extraction tests showed traces of oil with yellow/green fluorescence
Omati 1	4187.7	4193.2	13740.0	13758.0	GC3	Produced 10000 cu.ft gas in 48 hrs with 2 gals of condensate
Omati 1	4196.6		13769.0		L1	Cuttings/cores:? Sohxlet extraction tests showed traces of oil with yellow/green fluorescence
Omati 1	4217.3		13837.0		L1	Cuttings/cores:? Sohxlet extraction tests showed traces of oil with yellow/green fluorescence
Orie 1	2255.0	2290.0	7398.7	7513.5	L1	Cuttings/cores?: Pale-greenish yellow fluorescence
Orie 1	2520.0	2535.0	8268.1	8317.3	L1	Cuttings/cores?: Scattered weak pale-green fluorescence
Orie 1	2567.0		8422.3		G1	Trip gas analysed: C1(32%) C2(2.7%) C3(1.8%) IC4(0.085%) nC4(0.23%)
Orie 1	2630.0	2849.7	8629.0	9349.9	L1	Cuttings/cores?: Intermittent dull orange brown fluorescence
Pandora 1x	621.8		2040.0		G1	Total gas 400 units C1 gas
Pandora 1x	643.1		2110.0		G1	Total gas 340 units C1 gas
Pandora 1x	935.7		3070.0		G1	Total gas 360 units C1 gas
Pandora 1x	981.4		3220.0		G1	Total gas 280 units C1 gas
Pandora 1x	1005.8		3300.0		G1	Total gas 240 units C1 gas
Pandora 1x	1130.8		3710.0		G1	Total gas 310 units C1 gas
Pandora 1x	1146.0		3760.0		G1	Total gas 500 units C1 gas
Pandora 1x	1158.2		3800.0		G1	Total gas 400 units C1 gas
Pandora 1x	1249.6	1298.4	4100.0	4260.0	G1	Total gas 150-155 units C1 gas
Pandora 1x	1304.5		4280.0		G1	Total gas 330 units C1 gas
Pandora 1x	1463.0	1470.6	4800.0	4825.0	G5	DST #3 flowed to surface 57MMCFD gas (methane)

WELL NAME	Top Depth m RT	Base Depth m RT	Top Depth Feet RT	Base Depth Feet RT	Show Type	Comments
Pandora 1x	1501.1	1508.7	4925.0	4950.0	G5	DST #3 flowed to surface 57MMCFD gas (methane)
SE Hedinia 1	1542.2	1787.0	5060.0	5863.0	G1	Total gas reading ranged from 2-9 units mainly C1, some C2/C3 & trace C4
SE Hedinia 1	1769.9	1790.0	5807.0	5873.0	G5	DST 1 flowed gas at 5.7MMCFD on a 1/2" choke, & 10.3MMCFD on a 3/4" choke
SE Hedinia 1	1788.8	1794.9	5869.0	5889.0	G1	Total gas peaked at 790 units, composed of C1-C5, but no oil shows
SE Hedinia 1	1817.7	1820.8	5964.0	5974.0	G4	Prod test #4 tested gas(approx 1.64MMCFD) but stable flow rate was not established
SE Hedinia 1	1822.6	2048.2	5980.0	6720.0	G1	Total gas ranged from 3-12 units, composed of C1-C5
SE Hedinia 1	1860.4	1866.5	6104.0	6124.0	GL5	Prod test #3 flowed 16 BOPD (51.4 deg API) & 7.81MMCFD gas
SE Hedinia 1	2057.3	2062.2	6750.0	6766.0	GL5	Prod test #2 flowed 215 BOPD (44.8 deg API) & 0.75MMCFD gas
SE Hedinia 1	2089.3		6855.0		G1	Total gas reading of 26 units composed of C1-C5
SE Hedinia 1	2099.4	2105.5	6888.0	6908.0	L3	Prod test #1 recovered 0.25 bbls of (38.9 deg API) oil & 26.9 bbls of water
SE Hedinia 1	2171.3		7124.0		G1	Total gas reading of 34 units composed of C1-C5
SE Hedinia 1	2244.7		7365.0		G1	Total gas reading of 20 units composed of C1-C5
SE Hedinia 1	2324.0		7625.0		L1	SWC: 25% pale-bright yellow fluorescence
SE Hedinia 1	2392.6	2398.7	7850.0	7870.0	GL1	Total gas ranged from 30-41units composed of C1-C5, pale yellow fluorescence with crush cut
SE Hedinia 1	2398.7		7870.0		L1	SWC: 5-10% pale-bright white-yellow fluorescence
SE Hedinia 1	2441.3		8010.0		L1	SWC: 10% bright white-yellow fluorescence
SE Hedinia 1	2517.5	2563.2	8260.0	8410.0	GL1	Total gas reading of 10 units composed of C1-C5, intermittent fluorescence with crush cut

AGSO

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

AUSTRALIAN PETROLEUM SYSTEMS PROJECT

PAPUAN BASIN MODULE

APPENDIX 7 : PALAEOGEOGRAPHIC DATA

LANDFORM & ENVIRONMENT CODES

ENVIRONMENT CODES					LANDFORM ELEMENT CODES			
	LEU	Unclassified						
	LEE	Erosional						
	LUD	Unclassified Depositional						
					V	Volcano		
					LF	Lava Field		
					VM	Volcano Mixed		
	LDF	Fluvial	LDFB	Braided	C	Channel		
					AF	Alluvial Fan	AFT	Fan Toe
							AFD	Debris Flow
							AFS	Sheet Flow
			LDFM	Meandering	PB	Point Bar		
					AC	Abandoned Channel		
					LE	Levee		
LAND					CS	Crevasse Splay		
					BS	Backswamp		
	LDL	Lacustrine			LD	Lacustrine Delta		
	LDFL	Fluvial-Lacustrine			OD	Overbank Deposits		
		Upper Shoreface						
	LDP	Playa			SF	Salt Flat		
					MF	Mud Flat		
					P	Pond		
	LDA	Aeolian			D	Dune		
					S	Swale		
	LDG	Glacial			GD	Glacial Deposit		
	CDP	Paralic						
	CDIS	Intertidal / Supratidal			B	Beach		
					BR	Beach Ridge		
	CDD	Deltaic	CDDU	Upper Delta Plain	SMB	Stream Mouth Bar		
			CDDL	Lower Delta Plain	IDB	Interdistributary Bay		
			CDDF	Delta Front	SML	Submarine Levee		
COASTAL			CDDP	Pro Delta	CE	Chenier		
	CDE	Estuarine			M	Marsh		
					LA	Lagoon		
	CSF	Shoreface	CSFU	Upper Shoreface				
			CSFM	Middle Shoreface				
			CSFL	Lower Shoreface				
	MU	Unclassified						
	MSS	Starved Shelf						
	MS	Shallow (0-200m)			OB	Offshore Bar		
					BB	Barrier Bar		
					BI	Barrier Island		
					F	Fan	FP	Fan Proximal
							FM	Fan Mid
							FD	Fan Distal
			MVS	Marine Very Shallow (0-20m)	R	Reef	RT	Reef Toe
							RF	Reef Front
							RB	Reef Back
MARINE	MBA	Bathyal to Abyssal (>200m)			CSH	Continental Shelf	CSHI	Continental Shelf Inner
							CSHM	Continental Shelf Middle
							CSHO	Continental Shelf Outer
					CSL	Continental Slope		
					TF	Turbidite Fan	TFP	Turbidite Fan Proximal
							TFM	Turbidite Fan Mid
							TFC	Turbidite Fan Complex
							TFD	Turbidite Fan Distal
			MA	Marine Abyssal			MFD	Mixed Fan Distal
					AP	Abyssal Plain		

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
ANCHOR CAY 1	2118	2136	18	LEU		Conglom qtz sst, Fe stained from exposure & weathering
ANCHOR CAY 1	2136	2446	310	CDP ?		Dom fine sst, some crse grains, graded beds in Core 3, occ frosted grains SF ?
ANCHOR CAY 1	2446	2850	404	MS / CDP ?		Dom shale with well srt v fine to fine sst & occ granite wash. Poor cuttings descrpt
ANCHOR CAY 1	2850	3373	523	MU		Dom shale with volc beds, occ lmst, some granite wash & frosted grains
ANCHOR CAY 1	3373	3623	250	LEU / CDP ?		Shale, siltst, crse granite wash, conglom & volcs. Poor cuttings descrpt - no logs
ANGORE 1	2549	2608	59	MS / CDP		Clayst, mudst & intbed sst
ANGORE 1	2608	2668	60	MS		Mudst & clayst, glauc
ANGORE 1	2668	2820	152	MS / CDP		Dom mudst with intbeds v fine sst, lithics & tr glauc
ANGORE 1	2820	3405	585	MS		Mudst, occ v fine sst, loose grains ip, tr glauc & carb matter
ANGORE 1	3405	3530	125	CDP / MS		Intbed v fine to fine, mod srt, qtz sst & mudst
ANGORE 1	3530	3575	45	MS / CDP		Dom mudst with thin v fine to fine sst beds, com glauc
ANGORE 1	3575	3978	403	MS		Mudst & siltst with occ v fine, mod well srt, qtz sst, tr glauc & lmst bands
ANGORE 1	3978	3994	16	CDP / MS		Silty mudst, tr to com glauc, occ v fine qtz sst. Top marked by Max Flood Surface
ANGORE 1	3994	4004	10	CSFU	OB	Mod srt, clean, fine sst, glauc, mudst chips, hint Xbeds, pervassive bioturb
ANGORE 1	4004	4030	26	CSFL		Pervasive bioturb mudst, glauc, locally shelly, waterlain tuff, synsedy deformation
ANGORE 1	4030	4040	10	CSFU	BB	Fine to crse qtz sst, mod well srt, glauc, occ silty intbeds
ANGORE 1	4040	4050	10	CSFU		
ANGORE 1	4050	4053	3	CSFL		Mudst
ANGORE 1	4053	4098	45	CSFU / CSFM	BB	Fine to med, crse ip, sst, com glauc, mod srt, thin intbed siltst, 3+ stacked sands
ANGORE 1	4098	4112	14	CSFL		Mudst, occ thin v fine sst
ANGORE 1	4112	4130	18	CSFM		Fine to med, mod srt, qtz sst, tr glauc - possibly barrier bar sands
ANGORE 1	4130	4239	109	CDP		Intbed v fine to fine, occ med, mod well srt sst, siltst & mudst, tr glauc - No Logs
ARAMIA 1	1068	1495	427	MS	CSH	Monotonous mudst / siltst ip calc
ARAMIA 1	1495	1534	39	CSFM	OB ?	Top is crse sst, uncemented, some frosting and glauc. Also some belemnite frags
ARAMIA 1	1534	1568	34	CSFM		
ARAMIA 1	1568	1603	35	CSFM	OB ?	Bands of crse sst upto 5mm, uncement ip, shell frags, frosting and slumping.
ARAMIA 1	1603	1707	104	CSFL	CSH	Intbed sst & siltst, some crse sst, slight calc ip, some slumping
ARAMIA 1	1707	1721	14	CDP	OB ?	Log character
ARAMIA 1	1721	1735	14	CDP	SMB	Log character
ARAMIA 1	1735	1767	32	CDP	IDB	Intbed mud / silt & occ sst, shell frags. Forms top of broad fining up cycle
ARAMIA 1	1767	1801	34	CDP	BS ?	Dom argil sst, occ thin bands crse sst. ?LEC. Forms base of broad fining up cycle.
ARAMIA 1	1801	1847	46	CDP	C ?	Bivalve and lignite, some Xbeds and slumping.

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
ARAMIA 1	1847	1911	64	CDP		Slightly calc, some slumping - Possibly IDB or CDDP
ARAMIA 1	1911	1978	67	CDDL	CS / BS	Arksc & gritty sst, Xbeds, wood & carb frags in silt btw sst. Fe stain at 1911m
ARAMIA 1	1978	1989	11	LDF	C	Sharp based arkosic sst
ARAMIA 1	1989	2012	23	LEU		Weathered granite - erosion surface
ARAMIA 1	2012	2020	8			Fresh Granitic Basement
BARIKEWA 1	1029	1270	241	MU		Dom mudst with tr siltst and calc bands
BARIKEWA 1	1270	1538	268	MS / CDP		Worm burrows @ 1444. Lenticular beds - poss storm deposits ?
BARIKEWA 1	1538	1656	118	MS		Argillic siltst
BARIKEWA 1	1656	1668	12	CDDF		Fining up sequence
BARIKEWA 1	1668	1679	11	CDDF	C	V poor srt, fine to crse dirty glauc sst. Poss channel ? - blocky log pattern
BARIKEWA 1	1679	1682	3	CDDF		
BARIKEWA 1	1682	1701	19	CDDF	SMB	Hint of coarsening up in dirty poorly srt glauc sst
BARIKEWA 1	1701	1822	121	CDP	CSH / IDB ?	Low energy silts and muds.
BARIKEWA 1	1822	1842	20	CSF	OB	Clean med grain v well srt glauc sst with blocky log character
BARIKEWA 1	1842	1850	8	CSF		
BARIKEWA 1	1850	1904	54	CDP	CSH	Silty mudst, marly streaks & belemnite frags
BARIKEWA 1	1904	1995	91	CDP		Possibly CDDF ?. Hint of coarsening up.
BARIKEWA 1	1995	2438	443	MU		Monotonous mudst, some silt & fine sst in minor coarsening cycles. Poss MS ?
BARIKEWA 1	2438	2621	183	CDP		Dom siltst with occ beds fine to crse sst with some glauc
BARIKEWA 1	2621	2637	16	CDP	OB ?	V fine grain glauc sst with silty mudst lamm. Poss Xbeds from dipmeter
BARIKEWA 1	2637	2701	64	CDP	CSH / IDB ?	
BARIKEWA 1	2701	2809	108	CDP		V fine to fine sst with black specks, slight calc. Intbed mudst with some glauc.
BARIKEWA 1	2809	2833	24	CDP	SMB ?	V fine calc and glauc sst. Hint of coarsening up - possible SMB ?
BARIKEWA 1	2833	2898	65	CDP		Dom mudst - possible IDB or CSH ?
BARIKEWA 1	2898	2925	27	CDP	SMB ?	Slight glauc sst with good coarsening up gamma profile
BARIKEWA 1	2925	2929	4	CDP		
BARIKEWA 1	2929	3404	475	MU		Dom mudst, occ sst grains, some glauc & shelly frags - possibly still MS ?
BARIKEWA 1	3404	3411	7	MVS		Oolitic siderite mudst. Possibly MS ?
BARIKEWA 1	3411	3921	510	MS		Dom mudst, thin intbeds siltst, calc ip. Silts give minor coarsening up log charac
BARIKEWA 1	3921	3929	8	MVS		Oolitic lmst
BARIKEWA 1	3929	3979	50	MS		Low energy mudst & siltst, calc i.p
BARIKEWA 1	3979	3988	9	MVS		Muddy oolitic lmst

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
BARIKEWA 1	3988	4041	53	MS		Dirty lmst and mudst
BARIKEWA 1	4041	4126	85	CDP		Calc crse to med grain sst
BARIKEWA 1	4126	4233.7	107.7	LDF		Rusty brown arkosic sst with some conglom
DARAI 1	851	1200	349	CDP / CDD		Intbed siltst v.fine sst, pyritic wood frags (plant tissue 1193). Pro-deltaic?
DARAI 1	1200	1238	38	MS	CSH	Mudst with belemnite frags
DARAI 1	1238	1520	282	CDP / MS	CSH	Dom siltst & mudst with intbed fine glauc sst. Minor coarsening up btw 1392-1400
DARAI 1	1520	1526	6	CSFU	B ?	Unconsolidated well srt qtz sst
DARAI 1	1526	1540	14	CSFM	SMB	Coarsening up well srt glauc sst
DARAI 1	1540	1550	10	CSFM		
DARAI 1	1550	1561	11	CSFM	OB / B ?	Crse sst
DARAI 1	1561	1715	154	CDP	CSH	Intbed v fine arg sst, glauc ip, with siltst - belemnite frags. Some Coarsening up
DARAI 1	1715	1724	9	CSFM		
DARAI 1	1724	1734	10	CSFM	OB ?	Fine to med, v well srt qtz sst, tr glauc & crse frosted grains.
DARAI 1	1734	1748	14	CSFM		
DARAI 1	1748	1778	30	CSFU	OB / C ?	Sharp top & base med to crse sst, occ glauc. Dipmeter suggest poss channel
DARAI 1	1778	1788	10	CSFM		
DARAI 1	1788	1806	18	CSFL		Intbed well srt sst and mudst
DARAI 1	1806	1823	17	CSFM	C ?	Well rdd med to crse sst, occ glauc tr granules
DARAI 1	1823	1839	16	CSFL	SMB ?	Argil sst, well srt and rdd with tr glauc
DARAI 1	1839	1851	12	CSFL	OB ?	Argil sst, well srt and rdd with tr glauc
DARAI 1	1851	1906	55	CDDF	IDB	Grad coarsening up. Mottled sst (poss worms ?) & tr belemnite frags
DARAI 1	1906	2068	162	CDP		Intbed siltst & sst, tr belemnite frags carb matter, glauc & wx feld?. NO LOGS
DIBIRI 1	3700	3712	12	CDP / MS		Siltst & shale with intbedds of v fine sst
DIBIRI 1	3712	3723	11	CDP / MS	OB ?	V fine to fine well srt qtz sst, slight lithic content, hint of blocky log character
DIBIRI 1	3723	3776	53	CDP / MS		
DIBIRI 1	3776	3794	18	CDP / MS	SMB ?	Coarsening up log profile, v fine sst
DIBIRI 1	3794	4895	1101	CDDP		Monotonus shale, siltst & occ fine argill sst. Partridge rpt suggests rapid depo
ELEVALA 1	2329	2767	438	CSFL		Mudst with small coarsen up cycles of fine, well srt & rdd, occ frosted, glauc sst
ELEVALA 1	2767	2889	122	CSFM	OB ?	V fine to fine, well srt, qtz sst, occ to abun glauc, mudst mtx, tr siltst. Distal OB ?
ELEVALA 1	2889	3017	128	MS		Mudst & siltst, lam & calc ip
ELEVALA 1	3017	3025	8	CDP	OB ?	V fine sst with abun glauc to greensand, blocky log profile
ELEVALA 1	3025	3056	31	CDP		Mudst & siltst grade to v fine sst, tr carb matter & glauc

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
ELEVALA 1	3056	3061	5	CSFU		
ELEVALA 1	3061	3069	8	CSFU	OB ?	V fine, mod well srt qtz sst, abun glauc & tr carb matter
ELEVALA 1	3069	3081	12	CSFU	SMB ?	V fine to fine qtz sst, mod srt, occ frosted grains, abun glauc, lithics & carb matter
ELEVALA 1	3081	3120	39	CDP / CSFL		Siltst & fine sst, lam, poor srt, occ glauc, organic rich ip
ELEVALA 1	3120	3134	14	CSFM	SMB ?	Coarsening up sequence of v fine to fine sst capped with thin blocky poss OB sst ?
ELEVALA 1	3134	3150	16	CSFM		Intbed silst & sst, common glauc & organic matter
ELEVALA 1	3150	3154	4	CSFM	OB ?	V fine well srt qtz sst, occ frosted & common glauc
ELEVALA 1	3154	3175	21	CSFM		Siltst & mudst, lam with thin intbeds v fine sst, glauc, woody material
ELEVALA 1	3175	3225	50	LEU		Permian basement, leucocratic adamellite granite, top 5m wx granite or conglom
GOARI 1	1938	2225	287	CDP		Mainly siltst and clayst with sst btw 2147-2192. Lignite - cavings ?
GOARI 1	2225	2240	15	CDP	OB	Abun glauc - frosted qtz grains. Marks top of coarsening up cycle from 2375
GOARI 1	2240	2257	17	CDP		
GOARI 1	2257	2266	9	CDP	OB	
GOARI 1	2266	2415	149	CDP		Minor coarsening up cycles. Sst with some glauc tr carb matter & felds
GOARI 1	2415	2425	10	CDP	PB ?	Possible reworking of sst to give mottled effect
GOARI 1	2425	2443	18	CDP		
GOARI 1	2443	2471	28	CDP	SMB ?	Possibly middle shoreface prograde
GOARI 1	2471	2616	145	CDP		Good coarsening up progradational cycle from 2585-2512. Glauc
GOARI 1	2616	2640	24	CDP	SMB	Top of sand have pyritised rootlet - shallow water & collonisation
GOARI 1	2640	2774	134	CDDF	IDB ?	Siltst & sst with carb matter and occ v. glauc
GOARI 1	2774	2788	14	CDDF	SMB	Sst glauc & some carb matter
GOARI 1	2788	2825	37	CDDF		
GOARI 1	2825	2840	15	CDD	SMB	
GOARI 1	2840	2870	30	CDD	SMB	
GOARI 1	2870	3055	185	CDD	CS or IDB ?	Arkosic sst intbed with siltst & shale with glauc
GOARI 1	3055	3094	39	CDD	C ?	Sharp base and top - some intebeds of shale with glauc
GOARI 1	3094	3140.2	46.2	CDD		
GOARIBARI 1	3188	3420	232	CDDF		Intbedd clayst, siltst & v fine to fine sst, occ coarsening up profiles - distal SMB ?
GOARIBARI 1	3420	3555	135	CDDF / CDDP		Dom siltst & clayst, occ intbeds v fine to fine argill sst
GOARIBARI 1	3555	3568	13	CDDL / CDDF		Intbed fine, occ med, sst & clayst, argillic, tr feld & lithics
GOARIBARI 1	3568	3584	16	CDDL / CDDF	SMB	Good coarsening up profile with burrowing in topmost sst
GOARIBARI 1	3584	3611	27	CDDL / CDDF		

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
GOARIBARI 1	3611	3619	8	CDDL / CDDF	C ?	Fine sst with sharp base & top - possible C ?
GOARIBARI 1	3619	3672	53	CDDL / CDDF		Several cycles intbed sst & clayst, some minor coarsening up
GOARIBARI 1	3672	3688	16	CDDL / CDDF	SMB	Good coarsening up log character
GOARIBARI 1	3688	3730	42	CDDL / CDDF		Intbed non calc clayst & v fine to fine sst with tr lithics
GOARIBARI 1	3730	3742	12	CDDL / CDDF	SMB	Mod srt v fine to fine sst with good coarsening up gamma profile
GOARIBARI 1	3742	3775	33	CDDL / CDDF		Several cycles of intbed v fine to fine sst, tr feld carb matter & argillic, & clayst
GOARIBARI 1	3775	3786	11	CDDL / CDDF	SMB ?	Broad coarsening up gamma profile
GOARIBARI 1	3786	3796	10	CDDL / CDDF		Thinnly intbed clayst, siltst & v fine sst with tr forams
GOARIBARI 1	3796	3838	42	CDDP		Clayst, silty ip, rare v fine to fine sst, no marine indicators
GOBE 1	835	956	121	MS		Argill siltst - no rtns
GOBE 1	956	970	14	CDP / MS		V fine argill sst
GOBE 1	970	1442	472	MS		Siltst & clayst, tr v fine sst, tr glauc & foss frags
GOBE 1	1442	1666	224	MS / CDP		Siltst, clayst & occ v fine sst, tr carb matter & glauc
GOBE 1	1666	1704	38	CSFU	OB	Clean blocky log profile, pred med to crse, loose ip qtz sst, glauc, frosted grains
GOBE 1	1704	1720	16	CSFU	BB	Coarsening up sst sequence
GOBE 1	1720	1726	6	CSFU		Silty clayst
GOBE 1	1726	1735	9	CSFU	OB	Fine to v crse, mod srt qtz sst, glauc, sharp top & basal contacts
GOBE 1	1735	1750	15	CSFL		Silty clayst
GOBE 1	1750	1791	41	CSFM		V fine to med, mod srt sst, tr carb matter & glauc, intbed siltst
GOBE 1	1791	1838	47	CSFL / MS		Clayst, occ siltst, tr glauc
GOBE 1	1838	1844	6	CSFM		
GOBE 1	1844	1878	34	CSFM	BB ?	3 sharp topped coarsening up cycles, v fine to fine, well srt sst, tr glauc
GOBE 1	1878	1910	32	CSFM		Clayst & siltst
GOBE 1	1910	1921	11	CSFU	BB ?	V fine to fine, well srt qtz sst, glauc
GOBE 1	1921	1943	22	CSFL / MS ?		Clayst
GOBE 1	1943	1998	55	CDP		Broad coarsening up seq, clayst, siltst & occ v fine to fine sst
GOBE 1	1998	2028	30	CSFM		V fine to fine, mod srt qtz sst, tr glauc & intbeds siltst & clayst
GOBE 1	2028	2075	47	CSFU	OB	3 sand cycles, predom v fine to med, upto v crse, mod srt sst, tr glauc & carb spk
GOBE 1	2075	2084	9	CSFM		
GOBE 1	2084	2097	13	CSFM	BB	Upward coarsening v fine to fine, occ med, mod srt qtz sst
GOBE 1	2097	2113	16	CSFL		Clayst with occ v fine sst
GOBE 1	2113	2132	19	CSFM		Sst, v fine to v crse, pred med, mod to well srt, minor lam, intbeds siltst & clayst

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
GOBE 1	2132	2159	27	CSFL		Clayst, silty ip
GOBE 1	2159	2260	101	CDDF ?		Broad coarsening up profile, clayst, siltst to v fine & med sst, com glauc, tr carb
GOBE 1	2260	2411	151	CDP		Intbed clayst, siltst & occ v fine to fine sst, poss minor progrades, tr carb & glauc
HEDINIA 1	1020	1715	695	MS / CDP		Intbed v fine to fine sst, siltst & clayst, com to tr carb mat & glauc. No rtns till 1321m
HEDINIA 1	1715	1743	28	CDP		V fine to fine, occ med, mod srt sst, com glauc, tr carb mat, occ intbeds silt. C, BB?
HEDINIA 1	1743	1865	122	MS		Clayst, silty ip
HEDINIA 1	1865	1989	124	MS / CDP		Siltst & clayst with occ intbeds v fine, occ med, mod srt sst, tr glauc
HEDINIA 1	1989	2062	73	MS		Clayst & siltst, tr glauc
HEDINIA 1	2062	2085	23	CSFU	OB	Dom med, upto crse, mod srt qtz sst, loose ip, glauc, blocky log profile
HEDINIA 1	2085	2106	21	CSFM		Sst with intbeds clayst & siltst, tr to com glauc
HEDINIA 1	2106	2121	15	CSFU / CSFM	BB	Med to v crse, fair srt, sst with good coarsening up log profile
HEDINIA 1	2121	2126	5	CSFU / CSFM		
HEDINIA 1	2126	2171	45	CSFU / CSFM	OB / BB	Several sand packages of med to v crse, occ pble, mod to well srt qtz sst, glauc
HEDINIA 1	2171	2222	51	CDP / MS		Clayst & siltst with minor v fine sst
HEDINIA 1	2222	2242	20	CDP		2 coarsening up cycles from siltst to v fine sst
HEDINIA 1	2242	2254	12	CSFU	C / OB	Crse to v crse, occ med & pble, poor srt qtz sst, glauc
HEDINIA 1	2254	2292	38	CDP		Grad coarsen up from siltst to v fine & fine sst, tr glauc & carb matter
HEDINIA 1	2292	2334	42	MS / CDP		Clayst, silty with tr carb matter. Low Energy shelfal
HEDINIA 1	2334	2404	70	CSFM	BB	4 coarsen up cycles, top poss B?, fine to med, occ crse sst & intbed siltst & clayst
HEDINIA 1	2404	2421	17	CSFL		Siltst, sandy ip, occ v fine sst intbed, glauc
HEDINIA 1	2421	2433	12	CSFL	BB	Coarsening up cycle
HEDINIA 1	2433	2438	5	CSFL		
HEDINIA 1	2438	2457	19	CSFU / CSFM	BB	V fine to fine, occ med, mod well srt qtz sst, tr to com glauc
HEDINIA 1	2457	2590	133	CDP / CSFL		Intbed siltst & v fine to med mod srt qtz sst, tr glauc & carb mat, storm deposit ?
IAGIFU 2	1192	1361	169	CDP		Fine qtz sst, well srt, com lithic & glauc, argill streaks. No rtns 1192 - 1312
IAGIFU 2	1361	2225	864	MS / CDP		Thinnly intbedd siltst, clayst & v fine to fine sst, tr to com lithics, glauc & carb mat
IAGIFU 2	2225	2431	206	CDP / MS		Dom intbedd siltst & v fine to fine sst with lithics, glauc & carb matter, No forams
IAGIFU 2	2431	2456	25	CSFU	OB / B	Fine to med, occ crse, qtz sst, mod srt, com glauc & some frosted grains
IAGIFU 2	2456	2475	19	CSFM		Fine to crse, occ pble, qtz sst, tr lithics, glauc & shells. Minor siltst & shale intbeds
IAGIFU 2	2475	2539	64	CSFU	C / OB / B	Fine to med, upto pble, qtz sst, com to tr glauc, poor to mod srt, gen blocky log
IAGIFU 2	2539	2550	11	CSFM	SMB ?	Coarsening up fine to med qtz sst with lithics, carb matter & glauc
IAGIFU 2	2550	2604	54	CDP		Fine & occ med qtz sst, well srt, com glauc, tr lithics & carb, intbed with silty clayst

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
IAGIFU 2	2604	2629	25	CSFU	C ?	Med to crse, some pble, poor to mod srt qtz sst, tr lithics & glauc
IAGIFU 2	2629	2682	53	CDP		Intbedd v fine sst & siltst, well srt, tr lithics, glauc & carb matter, broad coarsen up
IAMARA 1	915	981	66	MS		Miocene lmst conglom at 915 - Underlain by glauc siltst with lmst interbeds
IAMARA 1	981	1045	64	CDP		Core 9 worm tubes, ostracods & bivalves
IAMARA 1	1045	1060	15	CDP	BB	
IAMARA 1	1060	1130	70	CDP	SMB ?	Core 10 fish teeth - glauc throughout, chert pbbls, belemnites
IAMARA 1	1130	1225	95	CDP	IDB ?	Glauc sst, carb frags, shell frags
IAMARA 1	1225	1240	15	CDP	BB	
IAMARA 1	1240	1291	51	CDD	SMB ?	
IAMARA 1	1291	1464	173	CDDF	IDB ?	Sst with glauc, qtz pbbls - mudst with bitumen flecks - Core 13 ostracods
IAMARA 1	1464	1527	63	CDDP		mudst with glauc and carb flecks - some coal
IAMARA 1	1527	1566	39	CDDU	CS or PB ?	plant remains, thin coal seams, gritty i.p. & load casts
IAMARA 1	1566	1598	32	CDDU	BS	trace vitrane
IAMARA 1	1598	1617	19	CDDU		
IAMARA 1	1617	1658	41	CDDU	C	occ current bdd & some gritty interbeds
IAMARA 1	1658	1692	34	CDDU		Core 16 coal, qtz pbbls, rip up clasts of mudst & current bedding
IAMARA 1	1692	1732	40	CDDU	C	
IAMARA 1	1736	1797	61	CDDU		fine to crse arkosic sst interbed with mudst with coal and wood frags
IAMARA 1	1797	1813.6	16.6	LEU	VM	rhyolitic tuff or ignimbrite with flow lines
IEHI 1	740	873	133	CDDL	IDB ?	Dom mudst/siltst some sst with felds & glauc. Lignite frags & slumping
IEHI 1	873	984	111	CDDL	CS ?	Dom fine sst with felds, poor srt, some lignite bands & slumping
IEHI 1	984	1128	144	MS / CDDF ?		Dom mudst, some silts, shell & lignite frags, poss slumping & intrfm shale breccia
IEHI 1	1128	1150	22	CDP		Fine sst upto 50% silt. Bedding appears disturbed - poss slumps worms ??
IEHI 1	1150	1438	288	MS		Mudst / siltst with belemnite frags
IEHI 1	1438	1450	12	CDP	C ?	Med to crse sst, fair srt, belemnite frags, clay mtx & occ pbls
IEHI 1	1450	1478	28	CDP		
IEHI 1	1478	1597	119	MS		Siltst / mudst & occ v fine sst, shell frags, worm burrows, slumping & Xbeds
IEHI 1	1597	1620	23	CDP	OB ?	Blocky fine to med qtz sst. Some chamosite grains (poss it is glauc ?)
IEHI 1	1620	1640	20	CDP		Argill siltst with current bedding & possible slumping
IEHI 1	1640	1664	24	MS		Mudst with shell frags
IEHI 1	1664	1699	35	CDP		Siltst grading to fine sst, calc and slightly glauc. Poss depo break 1685 - core 34
IEHI 1	1699	1738	39	CSF	OB ?	Poor rtns

WELL NAME	DEPTH	DEPTH TO	THICK'S	ENVIRONMENT	LANDFORM	COMMENTS
	MRT	MRT	MRT	CODE	ELEMENT CODE	
IEHI 1	1738	1795	57	CDP		Core 35 fine med sst slumped into mudst. Hint of coarsening up. Poss CDDF ?
IEHI 1	1795	1941	146	MS		Massive mudst. Occ belemnites
IEHI 1	1941	2023	82	MVS ?		Dom mudst with some oolitic chamosite. Belemnites & slumping
IEHI 1	2023	2109	86	MS		Poss depo break at 2062 - calc material enclosing mudst pellets and fragments
IEHI 1	2109	2121	12	CDP	SMB ?	V fine sst grade down to siltst. Hint of coarsening up on logs
IEHI 1	2121	2135	14	CDP		
IEHI 1	2135	2286	151	MS / MVS ?		Mudst, thin siltst, some calc, occ qtz grains & bel frags. Chamositic btw 2189-2209
IEHI 1	2286	2306	20	CSFL ?		Qtz sst, tr glauc and intbeds of mudst
IEHI 1	2306	2332	26	MS		Mudst with pyritic shell frags
IEHI 1	2332	2349	17	CSF ?		Qtz sst, tr glauc and intbeds of mudst
IEHI 1	2349	2407	58	MS		
IEHI 1	2407	2425	18	CSF ?		Dom v fine to silt qtz sst with some glauc and calc. Hint of coarsening up
IEHI 1	2425	2448	23	MS		
IEHI 1	2448	2493	45	CDP / CSF		Intbedd v fine sst and siltst. Glauc ip and calc cmt
IEHI 1	2493	2514	21	MS		
IEHI 1	2514	2523	9	CDP		V fine sst with slight coarsening up
IEHI 1	2523	2671	148	MS		Mudst with some silts
IEHI 1	2671	2714	43	CDP		Fine to med well rdd poor srt sst intbedd with mudst. Poss coarsening up SMB ?
IEHI 1	2714	2777	63	CSF ?	OB ?	V fine to med well rdd qtz rich sst with occ glauc & blocky log character
IEHI 1	2777	3061	284	MS		Mudst and siltst with belemnite and Inoceramus frags
IROGABAIU 1	1217	1353	136	CDP		V fine to fine, occ med, mod well srt sst, tr glauc, carb & lithics
IROGABAIU 1	1353	2013	660	CDP / MS		Dom siltst & clayst with occ v fine sst, tr glauc & carb specks
IROGABAIU 1	2013	2157	144	CDP		Intbed v fine to fine, mod well srt sst & siltst, glauc & carb specks. Juha Member
IROGABAIU 1	2157	2211	54	MS		Silty clayst with mica & glauc. Alene Member
IROGABAIU 1	2211	2232	21	CSFU	B ?	Blocky med to crse qtz sst, tr glauc
IROGABAIU 1	2232	2251	19	CSFM		Dom sst with thin intbeds of siltst
IROGABAIU 1	2251	2266	15	CSFU	BB	Well srt med to crse, occ loose, qtz sst, tr glauc & good coarsening up gamma
IROGABAIU 1	2266	2306	40	CSFU	C / OB	Several blocky sands seperated by minor silty intbeds
IROGABAIU 1	2306	2320	14	CSFM	BB ?	Hint of coarsening up
IROGABAIU 1	2320	2347	27	CDP / CSFL		Intbed siltst & v fine sst, com to tr glauc
IROGABAIU 1	2347	2377	30	CDP / CSFL	BB ?	Coarsening up from siltst to v fine & fine sst, tr glauc
IROGABAIU 1	2377	2428	51	MS		Siltst, tr glauc

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
IROGABAIU 1	2428	2452	24	CSFU	C / OB	Med to crse, mod well srt, sst with blocky gamma profile, tr glauc
IROGABAIU 1	2452	2539	87	CSFM	BB	4 coarsen up cycles in broad coarsening sequence, fine to crse sst, occ siltst
IROGABAIU 1	2539	2564	25	CSFU	OB	Fine to med well srt, loose ip, sst, tr glauc
IROGABAIU 1	2564	2671	107	CDP / CSFM		V fine to med sst, small coarsen up cycles with overall coarsen up, intbeds siltst
IROGABAIU 1	2671	2906	235	CDDF / CDP		Intbed clayst, siltst & v fine to fine sst, mod well srt, com glauc, tr carb spks
IROGABAIU 1	2906	2961	55	CDP	IDB ?	Thinly intbed clayst & siltst, occ sst, glauc
IROGABAIU 1	2961	3053	92	CDDL	C	Fine to med, occ crse, sst, blocky, tr glauc & poss carb mat - stacked channels ?
IROGABAIU 1	3053	3092	39	CDD		Top is interp in WCR as thrust with 150m throw
IROGABAIU 1	3092	3126	34	CDD	IDB	Dom siltst with thin sandy intbeds, occ lignite
IROGABAIU 1	3126	3190	64	CDD	OB / C	Fine to med sst, tr glauc, minor intbeds siltst
IROGABAIU 1	3190	3211	21	CDDL	C	Fine to med sst, tr glauc, blocky log profile
IROGABAIU 1	3211	3240	29	CDDF	IDB ?	Intbed clayst, siltst & sst, tr lithics, glauc & carb specks
IROGABAIU 1	3240	3248	8	CDDF	SMB	Good coarsening up log profile
IROGABAIU 1	3248	3289	41	CDDF		Several minor cycles of intbed siltst & sst, carb specks & glauc
IROGABAIU 1	3289	3301	12	CDDF	SMB	Good coarsening up cycle form clayst to fine sst
IROGABAIU 1	3301	3353	52	CDDF		Intbed clayst, siltst & fine, occ med, sst, tr to abun glauc, carb specks
JUHA 1	1619	1658	39	CSFU		Silt to med, occ crse, mod srt sst, shell frags, upto 15% glauc, poss burrows ?
JUHA 1	1658	1919	261	CSF		Silst grading to v fine, occ med, sst, shells, tr glauc & concretions
JUHA 1	1919	2097	178	MS		Dom mudst / siltst, occ sst, some shell frags & lmst beds
JUHA 1	2097	2106	9	CDP		Siltst & mudst, tr glauc
JUHA 1	2106	2113	7	CDP	OB ?	V fine to med sandy siltst, well srt, common glauc pellets
JUHA 1	2113	2232	119	CDP		Intbedd siltst & silty sst, tr glauc & py
JUHA 1	2232	2253	21	CDP	C ?	V fine to fine, occ crse, poor srt sst with py wood frags at base, rare glauc & shells
JUHA 1	2253	2289	36	MS		Mudst with common to tr py & glauc
JUHA 1	2289	2365	76	CDP		Sandy siltst with glauc pellets
JUHA 1	2365	2496	131	MS		Silty mudst, occ v fine sst, tr glauc
JUHA 1	2496	2520	24	CDP		Silty sst
JUHA 1	2520	2602	82	MS		Silty shale / mudst with some glauc
JUHA 1	2602	2628	26	CDP	C ?	Poor srt silty sst, rare glauc & lithics, possible channel ??
JUHA 1	2628	2637	9	CDP		
JUHA 1	2637	2648	11	CDP	SMB ?	Hint of coarsening up from silty mudst to fine sst, glauc
JUHA 1	2648	2670	22	CDP	C	Poor srt silty to fine & occ med sst, slight glauc & tr lithics

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
JUHA 1	2670	2681	11	CDP		Siltst & mudst
JUHA 1	2681	2719	38	CDP	C	V fine to med, poor srt sst, tr glauc, occ clay clasts & poorly consolidated
JUHA 1	2719	2854	135	MS	CSH	Siltst & mudst, v calc ip, tr py
JUHA 1	2854	2911	57	CDP		Intbedd siltst & sst with occ mudst, Innoceramus prisms
JUHA 1	2911	3040	129	CDD		Siltst & mudst intbedd with abundant coal beds & occ sst
JUHA 1	3040	3060	20	CDP		Siltst & shale with minor carb matter
JUHA 1	3060	3087	27	CSFM		Possible fining up
JUHA 1	3087	3100	13	CSFM	SMB ?	Coarsening up poorly consolidated, fine, mod well srt, argill & glauc sst
JUHA 1	3100	3150	50	CSFM		Dom v fine to fine sst, silty ip, argill mtx, glauc, minor carb shale
JUHA 1	3150	3180	30	MS		Silty clayst / mudst, micaceous
JUHA 1	3180	3195	15	CDP		Intbedd silty sst, poor srt glauc sst, minor coally material
JUHA 1	3195	3225	30	CSFU	C / OB ?	V fine to fine well rdd & srt sst, occ mud clasts, glauc, shell, lithic & coally material
JUHA 1	3225	3278	53	CSFU		Poorly srt v fine to crse sst, glauc, mud clasts & coally material, hint of coarsen up
JUHA 1	3278	3290	12	CSFU	C ?	V fine to crse poor srt sst, mica, glauc, mud clasts & coally material
JUHA 1	3290	3300	10	CSFU		Silty sst with coal frags
JUHA 1	3300	3339	39	CSFU	OB ?	V fine to fine well srt qtz sst, tr glauc, poor to mod consolidated
JUHA 1	3339	3343	4	CSFM		Silty mudst with tr coal
JUHA 1	3343	3351	8	CSFM	OB ?	Coarsening up well srt v fine to fine sst, tr glauc
JUHA 1	3351	3410	59	CSFM		Sandy siltst, calc ip, rare glauc & common mica
JUHA 1	3410	3422	12	CSFM	OB ?	Mod well srt v fine to med, occ crse sst, tr glauc pellets
JUHA 1	3422	3489	67	CDDF		No gamma. Intbedd siltst, clayst & fine to med sst
JUHA 1	3489	3537	48	CDDP		Intbedd siltst, mudst & silty sst
JUHA 1	3537	3554	17	CDDF	SMB ?	Coarsen up distal SMB ?. V fine to fine, occ med sst, mica, tr glauc & mud clasts
JUHA 1	3554	3741.7	187.7	CDDP		Dom mudst & siltst, occ v fine sst, tr glauc & mica, occ carb matter
KANAU 1	505	622	117	CDP		Broad coarsening up, no rtns. Looks like siltst grading to sst
KANAU 1	622	1152	530	CDP / MS		Intbed siltst, mudst & sst, occ ang qtz grains float in mudst, carb mat & bel frags
KANAU 1	1152	1163	11	CDP / MS	SMB	V fine mod well srt sst, slight glauc, good coarsening up sequence
KANAU 1	1163	1302	139	CDP / MS		Mudst grade to siltst, tr v fine sst intbeds & glauc
KANAU 1	1302	1330	28	CSFU	OB ?	Dom medd to crse, occ fine, qtz sst
KANAU 1	1330	1345	15	CSFM		Siltst, mudst with tr glauc
KANAU 1	1345	1369	24	CSFU	OB / BB	Fine to med, occ silty, sst, loose ip, blocky log character
KANAU 1	1369	1376	7	CSFM		

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
KANAU 1	1376	1521	145	MS		Mudst, siltst & minor v fine sst
KANAU 1	1521	1553	32	CDP		V fine sst, mod well srt & intbeds siltst
KANAU 1	1553	1566	13	CDP	OB / C	Blocky log poor returns
KANAU 1	1566	1597	31	CDP		Siltst & v fine sst, slight glauc & mudst, poor rtns
KANAU 1	1597	1619	22	CDP	OB / C	Blocky log, sst, poor rtns
KANAU 1	1619	1649	30	CDP		Intbed mudst, siltst & sst, poor rtns
KANAU 1	1649	1658	9	CDP	OB / C	Blocky sst, poor rtns
KANAU 1	1658	1706	48	CDP		Dom v fine, occ med, sst, occ felds & tr carb matter
KANAU 1	1706	1794	88	CDP / MS		Dom mudst & siltst with occ thin sst in small coarsen up seq, tr glauc & carb mat
KANAU 1	1794	1806	12	CDDF	SMB	Good coarsening up log profile
KANAU 1	1806	1826	20	CDDF		Mudst, v silty & grade to v fine sst, carb matter
KANAU 1	1826	1841	15	CDDF	SMB ?	Siltst grade to v fine sst, occ carb matter & tr glauc
KANAU 1	1841	1850	9	CDDF		Siltst
KANAU 1	1850	1857	7	CDDL / CDP		Siltst
KANAU 1	1857	1867	10	CDDL / CDP	PB ?	V fine sst grade to siltst in broad fining up seq
KANAU 1	1867	1876	9	CDDL / CDP		Carbonaceous mudst
KANAU 1	1876	1888	12	CDDL / CDP	C / OB ?	V fine to med qtz sst with blocky log character
KANAU 1	1888	1895	7	CDDL / CDP		Mudst, siltst & occ v fine sst
KANAU 1	1895	1906	11	CDDL / CDP	C / OB ?	Med to crse sst with blocky log character
KANAU 1	1906	1915	9	CDDL / CDP	SMB / BB	V fine to med qtz sst, rdd glauc grains, hint of coarsening up
KANAU 1	1915	1924	9	CDDL / CDP		
KANAU 1	1924	1955	31	CDDF		Siltst grade to v fine, occ med, sst with occ wx felds
KANAU 1	1955	1979	24	CDDL		Med to crse, loose qtz sst, some intbeds silts & mudst
KANAU 1	1979	1988	9	CDDL	PB	Med to crse sst with small scale fining up seq
KANAU 1	1988	2000	12	CDDL	C ?	V fine to fine, occ med & crse, qtz sst, loose ip, blocky log profile
KANAU 1	2000	2005	5	CDDL		
KANAU 1	2005	2016	11	CDDF		Mudst, slight carbonaceous
KANAU 1	2016	2024	8	CDDF	SMB ?	V fine sst with occ wx felds & tr carb spks
KANAU 1	2024	2036	12	CDDF		Thinnly intbed mudst, siltst & sst
KANAU 1	2036	2048	12	CDDF	SMB	Good coarsening up from siltst to fine sst
KANAU 1	2048	2080	32	CDDF	IDB ?	Mudst & siltst with flecks & lam carb matter, occ sst intbeds
KANAU 1	2080	2097	17	CDDF	SMB	2 broad coarsening up seq from siltst to fine sst

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
KANAU 1	2097	2150	53	CDDP		Mudst, silty ip, occ thin fine sst intbeds & loose qtz grains
KANAU 1	2150	2450	300	CDDF		Siltst, v fine sst & mudst, minor coarsen up seq, carb mat, tr glauc & foss frags
KANAU 1	2450	2489	39	CDD	SMB	Dirty coarsening up profile, fine to med sst, siltst & mudst, tr lignite
KANAU 1	2489	2516	27	CDD		Intbed siltst & mudst with minor sst
KANAU 1	2516	2523	7	CDD	C ?	Sharp base blocky, mod srt sst
KANAU 1	2523	2610	87	CDD		Siltst, mudst & v fine to med, occ crse, sst, carb lam
KANAU 1	2610	2620	10	CDD	SMB	Siltst grade to v fine sst in coarsening up seq
KANAU 1	2620	2651	31	CDD	IDB ?	Intbed sst, siltst & mudst
KANAU 1	2651	2679	28	CDD	SMB	2 coarsening up seq
KANAU 1	2679	2800	121	CDD		Intbed mudst, siltst & v fine, occ crse, sst, glauc & tr carb mat ip, coarsen up seq
KANAU 1	2800	2809	9	MS		Mudst, tr glauc
KANAU 1	2809	2886	77	CDP ?		V fine to med, occ crse, poor to mod srt sst, tr coal, intbed with siltst & mudst
KANAU 1	2886	3349	463	CDP / LUD		V fine to crse sub arkosic sst, minor intbed siltst & mudst, felds & occ carb mat
KANAU 1	3349	3519	170	LUD / CDP		Med to crse sst with volc pebls, poor srt, wx felds, tr carb matter, intbed silty mudst
KIUNGA 1	2065	2075	10	CSFU	B ?	Fine to crse, dom med, mod srt, well rdd qtz sst, frosted, unconsolidated
KIUNGA 1	2075	2256	181	CDP / MS ?		Intbedd mudst, siltst & v fine sst, tr glauc & forams
KIUNGA 1	2256	2399	143	CDP / CDDF ?		Intbedd v fine qtz sst & siltst, tr glauc & carb matter, ip hint of minor coarsening up
KIUNGA 1	2399	2408	9	CDP / CDDF ?	SMB ?	V fine qtz sst, tr glauc & hint of coarsening up
KIUNGA 1	2408	2415	7	CDP / CDDF ?		
KIUNGA 1	2415	2505	90	CDDP		Dom siltst, com glauc, tr to com carb matter & coal, occ tr sst
KIUNGA 1	2505	2626	121	MS		Dom mudst, occ forams, mica & ostracods, com silt size glauc
KIUNGA 1	2626	2631	5	MVS ?		Abun Innoc prisms & forams, poss winnowed by wave action due to sea level fall
KIUNGA 1	2631	2817	186	MS		Mudst, tr glauc, Innoc prisms & carb matter
KIUNGA 1	2817	2850	33	CDP		Dom siltst, tr v fine qtz sst, Innoc prisms & glauc
KIUNGA 1	2850	2885	35	MS		Shale & siltst, Gamma spike poss = phosphate in fish remains ? disconfofmity ?
KIUNGA 1	2885	2890	5	MVS		Biocalcarenite with bellemnite & shell debris
KIUNGA 1	2890	2919	29	CDP		Intbedd siltst & fine glauc sst, occ shell frags
KIUNGA 1	2919	2935	16	CSFU	OB / B	Fine to med well srt qtz sst, ip frosted, tr glauc, unconsol, blocky log character
KIUNGA 1	2935	2972	37	CSFM		Dom qtz sst, fine to med, occ crse, frosted ip, Intbedd with shale
KIUNGA 1	2972	3026	54	LEU		Basement, massive quartzite intlayered with highly alt rhyolite or granite
KOMEWU 1	1557	1685	128	CDP		Poor srt fine to pble argill sst intbed with shale. Top 7m tr glauc, Xbeds & slumps
KOMEWU 1	1685	1715	30	CDP	C / BI ?	Fine to crse qtz sst with blocky log character. Fossil wood & lignite. Metased ??

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
KOMEWU 1	1715	1765	50	CDP		Fine grain argill sst, carbonaceous & current bdd
KOMEWU 1	1765	1788	23	CDP	C / BI ?	Well srt fine grain qtz sst some thin coals ? or frags ?. Blocky log character
KOMEWU 1	1788	1801	13	CDP	CS ?	Fine to med argill sst
KOMEWU 1	1801	1828	27	CDDU	BS	Coals, seat earths & med to crse argill sst
KOMEWU 1	1828	1840	12	CDDU	C	Med to crse argill sst
KOMEWU 1	1840	1847	7	CDDU	LE	Argill sst with intbdd carbonaceous silts and coals
KOMEWU 1	1847	1859	12	CDDU	C ?	Med to crse argill sst
KOMEWU 1	1859	1870	11	LEU		Weathered granite
KOMEWU 1	1870	1949	79	LUD	LF	Dacite lava flow. Flow structures in thin section
KOMEWU 2	1515	1644	129	CDP		Siltst & v fine to fine argill sst. Some coally streaks, carb matter & shell frags
KOMEWU 2	1644	1721	77	MS		Siltst & silty shale with bivalve frags
KOMEWU 2	1721	1747	26	CDP		Silty greensand with abun loose v fine qtz sst grains
KOMEWU 2	1747	1837	90	MS		Siltst with streaks and speckeles of v fine sst
KOMEWU 2	1837	1853	16	CSFU		Qtz sst
KOMEWU 2	1853	1868	15	CSFU	C ?	Med to crse loose qtz sst with upto 10% glauc
KOMEWU 2	1868	1908	40	CSFU		Glauc fine to med qtz sst, ip unconsolidated. Broad coarsening up log profile.
KOMEWU 2	1908	1932	24	CSFL		Glauconitic sandy siltst
KOMEWU 2	1932	1976	44	CSFU	C ?	Fine to v crse loose qtz sst, ip glauc
KOMEWU 2	1976	2030	54	CSFU		V fine to med unconsol qtz sst, ip v glauc
KOMEWU 2	2030	2058	28	CSFU	C ?	Greensand passing into v fine sst with patchs of glauc and rare pbbls of vein qtz
KOMEWU 2	2058	2081	23	CSFU		Fine to v fine calc sst
KOMEWU 2	2081	2117	36	CSFL		Calc silts verging to lmst with intbedds of mudst & shale. Bellemnite frags & glauc
KOMEWU 2	2117	2150	33	CSFM		V fine to fine calc and argill sst and silts
KOMEWU 2	2150	2161	11	CSFM	SMB ??	V fine to fine argill sst with hint of coarsening up - hence poss SMB ??
KOMEWU 2	2161	2182	21	MS		Siltst with tr glauc
KOMEWU 2	2182	2193	11	CSF		Fine to med argill sst. Possible coarsening up
KOMEWU 2	2193	2231	38	MS		Siltst with tr glauc
KOMEWU 2	2231	2253	22	CSFU	B / OB ?	Fine to med grain sst, argill ip, bellemnite frags, blocky log character
KOMEWU 2	2253	2272	19	MS		Glauc siltst
KOMEWU 2	2272	2392	120	CSF		Fine to crse qtz sst, ip unconsolidated, glauc & shell frags
KOMEWU 2	2392	2410	18	CSF	OB ?	Fine to med qtz sst (cleaner than overlying sst). Slight blocky log character
KOMEWU 2	2410	2428	18	CSF		

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
KOMEWU 2	2428	2449	21	MS		Siltst & silty mudst, tr glauc & bellemnite frags
KOMEWU 2	2449	2647	198	CDP / MS		V fine argill sst & siltst, some lmst frags and lignite throughout
KOMEWU 2	2647	2684	37	MS		Siltst & f grain sst with tr lignite and lmst
KOMEWU 2	2684	2863	179	CDP		Fine to med argill sst intbedd silsts / mudst. Flecks of lignite throughout
KOMEWU 2	2863	2874	11	CDDU	CS	Fine grain argill sst with coally streaks
KOMEWU 2	2874	2890	16	CDDU	LE / BS ?	Coals intbdd with argill sst, siltst & mudst
KOMEWU 2	2890	2918	28	CDDU	BS	Several thick coals amongst argill sst, siltst and mudst
KOMEWU 2	2918	2937	19	CDDU	LE ?	Argill sst with carb matter & some coals
KOMEWU 2	2937	3032	95	LEU		Weathered granitic basement
KOMEWU 2	3032	3041	9	LUD		Fresh Granitic basement
KUSA 1	2414	2428	14	CDP		Siltst & shale, slight calc & mica, occ glauc & carb flecks
KUSA 1	2428	2438	10	CSFU	OB / C ?	Dom med, upto granule, qtz sst, well rdd, glauc
KUSA 1	2438	2449	11	CSFU		V crse to pebble qtz sst, poss coarsening up ?
KUSA 1	2449	2456	7	CSFL		Siltst & shales with glauc and carb flecks
KUSA 1	2456	2474	18	CSFU		Med to v crse qtz sst, tr glauc & some py cement
KUSA 1	2474	2483	9	CSFU	OB	Med to crse, mod srt, well rdd qtz sst, tr glauc
KUSA 1	2483	2520	37	CSFM	SMB	V fine to crse qtz sst, tr mica, glauc & burrows, intbedds silt, Good coarsen up log
KUSA 1	2520	2529	9	CSFL		Glauc sandy siltst
KUSA 1	2529	2548	19	CSFL	SMB ?	Dom siltst, some fine well srt qts sst, glauc, coarsening up log character
KUSA 1	2548	2668	120	MS		Siltst & shale, tr carb matter & glauc, occ v fine sst beds
KUSA 1	2668	2809	141	CDP		Intbedd siltst, shale & v fine to fine qtz sst, glauc & occ carb matter
KUSA 1	2809	2836	27	CSFM	SMB ?	Fine to granule qtz sst, some glauc & frosted grains, 2 small coarsen up cycles ?
KUSA 1	2836	3004	168	CSFM		Intbed fine to granule qtz sst, siltst & shale, some glauc & frosted grains
KUSA 1	3004	3050	46	MS / CSFL ?		Dom siltst & shale with occ sst & qtz grains
KUSA 1	3050	3072	22	CDP	OB ?	Fine to v crse qtz sst, well rdd, fair srt, some frosted grains
KUSA 1	3072	3088	16	CDP	SMB ?	Shale to v fine & occ crse sst, broad coarsening up cycle
KUSA 1	3088	3200	112	CDP		Intbedd v fine to med, mod well srt, sst, siltst & shale, tr glauc
KUSA 1	3200	3218	18	CDDF	SMB ?	V fine to fine mod well srt sst, occ crse, tr glauc & occ intbeds of siltst & shale
KUSA 1	3218	3365	147	CDDF		Intbedd v fine to fine sst, occ med to crse, carb siltst & shale, tr coal & glauc
KUSA 1	3365	3375	10	CDD	SMB ?	V fine to crse sst, tr carb matter & rare glauc
KUSA 1	3375	3434	59	CDD	LA ?	Intbedd v fine to fine, occ crse, sst & siltst, py wood & carb frags, burrows, glauc
LAKE MURRAY 2	1262	1615	353	MS / CDP ?		Intbedd silty shale & v fine, occ med, qtz sst, loose sand ip, glauc, more sst at top

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
LAKE MURRAY 2	1615	1748	133	MS		Dom shale, silty ip, glauc, innoc prisms
LAKE MURRAY 2	1748	1872	124	CDP		Intbed calc shale, silty ip, with v fine to fine glauc rich sst, carb specks, shell frags
LAKE MURRAY 2	1872	1882	10	MVS		Thin fossil lmst with intbedd shale
LAKE MURRAY 2	1882	1915	33	CSFU		Fine to v crse, poor srt qtz sst, kaol mtx, glauc, base is arkosic
LAKE MURRAY 2	1915	1934	19	LEU		Deep wx finely Xyline diorite basement. L Murray 1 fresh diorite with no CSFU sst
LAVANI 1	0	76	76	CSFM	C / OB ?	V fine to med qtz sst, glauc & thin mudst
LAVANI 1	76	220	144	CSFL / CDP		Dom v fine to fine sst, glauc, frosted & intbedd shale
LAVANI 1	220	528	308	MS / CDP ?		Dom siltst & occ intbedds of v fine sst, some dolomite & ostracod frags
LAVANI 1	528	650	122	MS		Clayst & siltst with tr v fine sst, lignite & mica
LAVANI 1	650	898	248	MS / CDP		Intbed v fine to fine sst, siltst & shale, occ glauc
LAVANI 1	898	942	44	CSFM	C / OB ?	V fine to med qtz sst with glauc & intbeds of shale & siltst. Stacked bar / channel ?
LAVANI 1	942	962	20	CSFM		
LAVANI 1	962	975	13	CSFM	SMB	V fine to fine, occ med, qtz sst with glauc & good coarsening up log profile
LAVANI 1	975	1022	47	CSFL		Intbedd v fine to fine sst, siltst & shales
LAVANI 1	1022	1043	21	CSFL	SMB ?	Coarsening up qtz sst with glauc
LAVANI 1	1043	1088	45	CSFL		Dom siltst & shale with tr v fine qtz sst, glauc
LAVANI 1	1088	1142	54	CSFL	OB / C ?	Mod well srt v fine to fine qtz sst with blocky log character & tr glauc
LAVANI 1	1142	1529	387	CDP / MS		Dom siltst & clayst with minor v fine sst intbeds, glauc & foss frags towards top
LAVANI 1	1529	1643	114	CDP / CDDL ?		Intbedd v fine, crse ip, qtz sst & siltst, some carb matter - NO marine indicators
LAVANI 1	1643	1655	12	CDP / CDDL ?	C ?	Med to crse sst, abund v crse grains, sharp top & base
LAVANI 1	1655	1956	301	CDP / CDDF ?		Intbedd v fine to fine sst, siltst & shale, varrying amounts of lithics & pyrite
LAVANI 1	1956	2052	96	CDP / CDDP ?		Dom siltst with intbeds v fine qtz sst, poss minor coarsening up cycles
LAVANI 1	2052	2346	294	CDP / CDDL ?		Dom v fine to fine qtz sst with lithics, intbedd with siltst, shale & rare coals
LAVANI 1	2346	2356	10	CDP / CDDL ?	SMB ?	Hint of coarsening up on gamma
LAVANI 1	2356	2440	84	CDP / CDDL ?		Intbedd v fine to fine sst, with lithic grains, & silltst. Several cycles
LAVANI 1	2440	2450	10	CDP / CDDL ?	PB ?	Sharp base fining up sand. No marine indicators
LAVANI 1	2450	2500	50	CDP / CDDL ?		
LAVANI 1	2500	2710	210	CDP / CDDP ?		Dom shale & siltst, com carbonaceous, intbedd with v fine to fine sst with lithics
LAVANI 1	2710	2725	15	CDP	B ?	Fine to crse well srt qts sst with thin intbeds of silt & shale
LAVANI 1	2725	2822	97	CDP		Dom v fine to v crse sst intbed with silt, shale, coal & lmst at top.
LAVANI 1	2822	2838	16	LDF	C	Med to crse qts sst with blocky log character
LAVANI 1	2838	2900	62	LDF		Fairly well srt fine to med clean qtz sst with intbed silt & shale, several sequences

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
LAVANI 1	2900	2911	11	LDF	PB ?	Arkosic sst with hint of fining up
LAVANI 1	2911	2986	75	LDF		Fine to med, occ crse, sst, occ felds, intbeds shale & silt, carb ip, blocky log
MAGOBU ISLAND 1	941	1099	158	MS		Mudst & clayst with tr glauc
MAGOBU ISLAND 1	1099	1112	13	CDP		Distal SMB ? silty to fine grain sst, tr glauc and coarsens up
MAGOBU ISLAND 1	1112	1245	133	MS		Mudst & siltst, shell frags, glauc, some slumping & Xbeds in core
MAGOBU ISLAND 1	1245	1300	55	CDP	LA / IDB ?	Dom fine sst intbedd with argill mudst siltst, tr glauc and occ crse bands
MAGOBU ISLAND 1	1300	1318	18	CSFU	OB	Crse to v crse sst & occ gravel, frosted grains, med & small scale Xbeds
MAGOBU ISLAND 1	1318	1368	50	CSFM		
MAGOBU ISLAND 1	1368	1382	14	CSFU	OB	Loose crse to v crse sst, glauc ip
MAGOBU ISLAND 1	1382	1389	7	CSFM		
MAGOBU ISLAND 1	1389	1410	21	CSFU	C / OB ?	Crse to v crse loose qtz sst with tr glauc
MAGOBU ISLAND 1	1410	1473	63	CSFM		Coarsening up fine to v crse sst, siltst & mudst intbeds, glauc. 4 small CUC,s
MAGOBU ISLAND 1	1473	1502	29	CSFL		Fine to crse sst & intbedd siltst, glauc & 2 minor coarsening up cycles
MAGOBU ISLAND 1	1502	1513	11	CDP	OB ?	Qtz rich fine to crse sst, ip muddy, tr glauc
MAGOBU ISLAND 1	1513	1527	14	CDP	LA	Siltst & intbedd v fine sst, intact bivalve, burrows & carb lam
MAGOBU ISLAND 1	1527	1536	9	CDP	OB ?	Crse to v crse sst, some well srt finer sst, tr glauc
MAGOBU ISLAND 1	1536	1568	32	CDP		
MAGOBU ISLAND 1	1568	1584	16	CDP	SMB	Coarsening up crse to v crse sst, minor gravel beds, tr glauc
MAGOBU ISLAND 1	1584	1601	17	CDP	LA / IDB ?	
MAGOBU ISLAND 1	1601	1617	16	CDP	SMB	Coarsening up crse to v crse sst, minor gravel beds, tr glauc
MAGOBU ISLAND 1	1617	1641	24	CDP	LA / IDB ?	Dom siltst / mudst & occ thin beds fine sst, carb flecks
MAGOBU ISLAND 1	1641	1654	13	CDP	OB ?	Hint of blocky log character
MAGOBU ISLAND 1	1654	1672	18	CDP		Fair srt fine qtz sst, some crse grains & carb flecks
MAGOBU ISLAND 1	1672	1689	17	CDP	SMB ?	Coarsening up with top 6m crse sst
MAGOBU ISLAND 1	1689	1697	8	CDP		
MAGOBU ISLAND 1	1697	1709	12	CDP	SMB ?	Fine to v crse sst, some loose grains, tr glauc, good coarsening up log profile
MAGOBU ISLAND 1	1709	1726	17	CDP		Mudst / siltst, tr glauc, carb flecks
MAGOBU ISLAND 1	1726	1739	13	CDP	OB ?	Dom fine to crse sst, slightly blocky log character
MAGOBU ISLAND 1	1739	1831	92	CDP	IDB / LA ?	Fine sst, intbeds mudst & siltst, burrows, ripples, load casts, tr glauc, carb flecks
MAGOBU ISLAND 1	1831	1940	109	MS		Siltst & shale with minor sst, tr glauc & carb flecks
MAGOBU ISLAND 1	1940	2152	212	CSFL		Dom qtz sst, intbeds shale, small CUC's, glauc, burrows, shell frags, Xbeds
MAGOBU ISLAND 1	2152	2169	17	CDP	C / OB ?	Well srt crse qtz sst, ip unconsol, carb flecks, tr glauc

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
MAGOBU ISLAND 1	2169	2173	4	CDP		
MAGOBU ISLAND 1	2173	2200	27	CDP	C / OB ?	Well srt crse qtz sst, ip unconsol, carb flecks, tr glauc
MAGOBU ISLAND 1	2200	2211	11	CDP	IDB	Siltst with thin intbeds fine sst
MAGOBU ISLAND 1	2211	2235	24	CDP	SMB ?	Slight coarsening up at base, fine to crse mod srt qtz sst
MAGOBU ISLAND 1	2235	2364	129	CDDP		Fine sst intbed siltst & mudst, occ crse lam, carb flecks, ripples, burrows, tr glauc
MAGOBU ISLAND 1	2364	2382	18	CDD		
MAGOBU ISLAND 1	2382	2392	10	CDD	BS	2 good coal beds
MAGOBU ISLAND 1	2392	2411	19	CDD	C	Fine to crse argill sst with blocky log character
MAGOBU ISLAND 1	2411	2423	12	CDD		
MAGOBU ISLAND 1	2423	2472	49	CDD	C	Fine to crse poor srt qtz sst with argill mtx, stacked (3 ?) channel sequence
MAGOBU ISLAND 1	2472	2492	20	CDD	SMB ?	Slight coarsen up mod srt fine argill sst with glauc
MAGOBU ISLAND 1	2492	2510	18	CDDU	BS	Coals intbedd siltst & sst
MAGOBU ISLAND 1	2510	2528	18	CDDU	C ?	Med grain well srt qtz sst
MAGOBU ISLAND 1	2528	2540	12	CDDU	LE ?	Slight coarsening up sst intbed with siltst & carb matter
MAGOBU ISLAND 1	2540	2553	13	CDDU	CS ?	Well srt qtz sst - possible CS ?
MAGOBU ISLAND 1	2553	2580	27	CDDU	BS	Intbedd shale, v fine sst & coals
MAGOBU ISLAND 1	2580	2634.7	54.7	LUD		Basement - Dacite porphyry with phenos of feld & qtz
MANANDA 3	1157	1838	681	CDP / MS		Intbed v fine to fine sst, siltst & clayst, several small coarsen up seq, glauc & carb
MANANDA 3	1838	1982	144	CDP		V fine to fine, occ med, mod srt sst, loose grains ip, minor intbeds siltst & clayst
MANANDA 3	1982	2266	284	MS / CDP		Siltst, clayst & v fine to fine sst, tr to abun glauc, coal at 2098m
MANANDA 3	2266	2403	137	MS		Siltst, clayst & occ v fine sst, abun glauc, occ tr lmst, tr lithics & carb matter
MANANDA 3	2403	2409	6	CSFM	OB	Predom med to crse poor srt qtz sst, general v glauc
MANANDA 3	2409	2416	7	CSFM		Siltst, poss minor lmst
MANANDA 3	2416	2431	15	CSFM	BB ?	Coarsen up seq, siltst grade to sst, v fine to fine, occ med, abun glauc, tr carb mat
MANANDA 3	2431	2437	6	CSFL		Siltst clayst
MANANDA 3	2437	2446	9	CSFM	B ?	Friable med, occ crse, mod well srt sst, tr to com glauc, blocky log
MANANDA 3	2446	2455	9	CSFM	BB	Broad coarsening up seq, intbed silty sst & clayst
MANANDA 3	2455	2458	3	CSFL		Siltst, clayst & small sst lenses
MANANDA 3	2458	2485	27	CSFM	OB / C ?	V fine to crse, dom med, qtz sst, sharp base, siltst intbeds, tr to com glauc, tr carb
MANANDA 3	2485	2492	7	CSFM	C ?	Sharp base - poss erosive ?, crse sst, argill mtx, tr glauc & carb spks
MANANDA 3	2492	2498	6	CSFM		Siltst, tr carb spks
MANANDA 3	2498	2504	6	CSFM	OB ?	Med to crse sst, tr glauc & carb matter, occ foss frags

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
MANANDA 3	2504	2509	5	CSFM		Clayst with foss frags
MANANDA 3	2509	2558	49	CSFU	C / OB ?	Crse to v crse, occ pble sst, tr to com (2530) glauc, Xbeds, rip up clasts at base
MANANDA 3	2558	2560	2	CSFU		
MANANDA 3	2560	2563	3	CSFM		Siltst, clayst
MANANDA 3	2563	2577	14	CSFM	BB ?	Med to crse, loose ip, qtz sst, intebeds of siltst
MANANDA 3	2577	2621	44	CSF		V fine to fine, occ med, qtz sst, grade to siltst & clayst ip, tr carb spks & glauc
MOREHEAD 1	1036	1172	136	CDP		Med to crse poor srt sst, minor glauc & lignite
MOREHEAD 1	1172	1253	81	CDP	OB	
MOREHEAD 1	1253	1367	114	CDP	F	Washover fans ?. Xbeds, pbbls of rwk siltst & chert, frosted qtz, glauc & belmnites
MOREHEAD 1	1367	1450	83	CDP		Sst as above, some pbbls & Xbeds
MOREHEAD 1	1450	1670	220	CSFU	BI	Well srt, ang, frosted qtz, Xbeds, carb lam, worm mottling?.
MOREHEAD 1	1670	1750	80	CSFM		Intbed frosted glauc sst & thin mudst. Ripple marks& occ calc bands
MOREHEAD 1	1750	1998	248	MS	CSH	Mudst - some shells & occ fine grain glauc sst
MOREHEAD 1	1998	2043	45	MS	OB	Core 38 upto 90% glauc
MOREHEAD 1	2043	2113	70	MS	CSH	Mudst with rare fossils
MOREHEAD 1	2113	2131	18	MS	OB	Ang frosted grains - minor glauc
MOREHEAD 1	2131	2214	83	MS		Mudst with rare lenses fine sst - Xbedding
MOREHEAD 1	2214	2228	14	CDP	C ?	Arkosic sst, med to crse, rare glauc
MOREHEAD 1	2228	2254	26	CDP		
MOREHEAD 1	2254	2280	26	CDP	IDB	Broad coarsening up cycle, some wispy lam - worms?
MOREHEAD 1	2280	2301	21	LDFB	C	Med grain arkosic sst - upto 1cm Diam in gritty bands
MOREHEAD 1	2301	2323	22	LDFB	AC	Arkosic sst with silty intbeds - gritty bands with elongated grains (current action)
MOREHEAD 1	2323	2348	25	LDFB		
MOREHEAD 1	2348	2364	16	LDFB	C / CS ?	
MOREHEAD 1	2364	2465	101	LDF		No Logs. Arkosic sst, wispy lam (worms ?), fingernail lenses of lignite
MORIGIO 1	2407	2560	153	MS / CDP		Dom shale & siltst with well srt v fine to fine qtz sst, glauc
MORIGIO 1	2560	2619	59	MS		Shale & siltst, rare v fine sst, tr carb specks
MORIGIO 1	2619	2685	66	MS / CDP		Shale & siltst with v fine to fine, occ med, poor srt sst, argill mtx
MORIGIO 1	2685	2788	103	CDP		Intbedd v fine to fine, occ med, sst, siltst & shale, lam ip, tr glauc
MORIGIO 1	2788	2835	47	CSF	OB / C ?	Med to v crse & granule, mod srt, qtz sst, tr glauc, Xbedsd
MORIGIO 1	2835	2846	11	CDP		Siltst to fine sst with hint of coarsening up
MORIGIO 1	2846	2863	17	CDP	OB / C	Fine to med, occ loose v crse grains, poor srt qtz sst

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
MORIGIO 1	2863	2898	35	CDP	BB	Clayst, siltst to med sst, good coarsen up log profile, mod srt, tr glauc & carb fleck
MORIGIO 1	2898	3118	220	MS		Shale, silty ip, rare v fine sst intbeds & tr glauc
MORIGIO 1	3118	3265	147	MS / CDP		Dom siltst & v fine sst, tr glauc & carb flecks, lam ip, minor shale
MORIGIO 1	3265	3304	39	CDP	OB / C	Fine to med sst, mod srt, slight calc, tr argill mtx, minor lam, some felds
MORIGIO 1	3304	3346	42	CDP		Dom shale, silty with intbed v fine sst
MORIGIO 1	3346	3368	22	CDP	OB	V fine to fine, occ med, sst, argill mtx, poor srt, tr glauc & coarsening up log profile
MORIGIO 1	3368	3405	37	CDP		Dom shale, some v fine sst, tr carb matter & glauc
MORIGIO 1	3405	3436	31	CDP	OB	Good coarsen up cycle from silts to fine, med & occ crse sst, poor srt
MORIGIO 1	3436	3442	6	CDP		
MORIGIO 1	3442	3482	40	CDP	OB	Coarsening up log profile, siltst to fine & med sst, tr glauc
MORIGIO 1	3482	3500	18	CDP		Shale and sst with hint of fining up
MORIGIO 1	3500	3510	10	CDP	BB	Fine to med, occ crse, mod srt, sst, tr glauc & hint of coarsening up profile
MORIGIO 1	3510	3634	124	CDP		Dom shale with intbeds v fine to fine sst, argill mtx, tr glauc, intraform rip up clasts
MORIGIO 1	3634	3662	28	CDP	BB	V fine to med, occ crse sst, loose grains ip, minor shale & silt
MORIGIO 1	3662	3757	95	CDP		
MORIGIO 1	3757	3769	12	CDP	BB ?	V fine to fine, occ med, mod to poor srt, argill mtx, glauc ip
MORIGIO 1	3769	3833	64	CDP		Intbed shale & v fine to fine sst, minor coarsening up cycles
MORIGIO 1	3833	3898	65	CDP	BB / C?	V fine to med, poor to mod srt, sst, argill mtx, tr glauc, shale btw stacked sand
MORIGIO 1	3898	3920	22	CDP		Shale grade to silt
MORIGIO 1	3920	3927	7	CDP	C ?	Fine to med poor srt sst with tr glauc & sharp top & base
MORIGIO 1	3927	3961	34	CDP		Shale, silty, non calc, minor sst intbeds
MORIGIO 1	3961	3971	10	CDP	C ?	Sharp based fine to med, poor srt sst, argill mtx, tr glauc
MORIGIO 1	3971	3990	19	CDP		Shale, silty, non calc
OMATI 1	3068	3177	109	MU		Monotonous shale, occ ang qtz grain, tr pyrite
OMATI 1	3177	3292	115	CDP		Fine to silty glauc sst with intbeds of siltst & mudts
OMATI 1	3292	3508	216	MS		Silty mudst, non calc, tr glauc, rare shell frags & marl
OMATI 1	3508	3548	40	CDP		Intbedd fine to med qtz sst, mudst & siltst. Basal 10 -15m thick sand sharp based
OMATI 1	3548	3800	252	MS		Dom mudst & siltst, mostly calc, some shell frags & carb matter, tr glauc
OMATI 1	3800	4189	389	MU		No Logs. Mudst & siltst, calc ip, tr glauc, qtz grains & marl
OMATI 1	4189	4249	60	CDP ?		Fine to med qtz sst, few felds & tr glauc, intbed siltst & mudst, high energy - CDP ?
OMATI 1	4249	4374	125	MU / MS ?		Mudst, micaceous ip, tr glauc & qtz grains
ORIE 1	1144	1537	393	CDDF	CSH	Dom siltst, intbed fine sst, i.p. glauc, skeletal frags, py wood frags & amber

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
ORIE 1	1537	1684	147	CSFL ?		V fine to fine sst, intbed siltst, glauc, tr arg lmst
ORIE 1	1684	1755	71	CDP		Siltst with sst stringers, glauc, well srt, tr coal. Gamma peak 1705m Phosphate ?
ORIE 1	1755	2070	315	MS / CDDF	CSH	Monotonous siltst, py burrow fills, shelly frags, glauc, occ carb flecks
ORIE 1	2070	2075	5	CDP	OB	Fine grain well srt & rdd qtz sst with rare med grain frosted qtz grains
ORIE 1	2075	2091	16	CDP		
ORIE 1	2091	2100	9	CDP	SMB ?	Hint of coarsening up in well srt, slight glauc v fine sst
ORIE 1	2100	2105	5	CDP		
ORIE 1	2105	2110	5	CDP	OB ?	Well srt, slight glauc v fine sst
ORIE 1	2110	2306	196	CDDF		Intbed siltst and v fine sst. Tr shelly frags
ORIE 1	2306	2312	6	CDP	OB ?	Dipmeter interp in original WCR
ORIE 1	2312	2346	34	CDP	SMB ?	Coarsening up cycle
ORIE 1	2346	2400	54	CDP		
ORIE 1	2400	2427	27	CDP	OB ?	Slight coarsening up cycle. Some granule size clasts of low grade metamorphics
ORIE 1	2427	2516	89	MS		Greensand at 2505. Possible oolitic chamosite 2505-2513m.
ORIE 1	2516	2527	11	CDP	OB	From dipmeter interp in WCR. Some granular crse sst
ORIE 1	2527	2616	89	CDP	CSH	Intbed v fine sst and siltst, glauc, calc & belemnite frags
ORIE 1	2616	2637	21	CDP	OB ?	Coarsening up cycle. Some py shelly frags
ORIE 1	2637	2655	18	MS		
ORIE 1	2655	2665	10	CDP	OB	Well srt fine grain sst. Shells and glauc at top & scattered med size grains
ORIE 1	2665	2676	11	CDP		
ORIE 1	2676	2850	174	MS	CSH	Bel frags and intact brachiopod. Coarsening up cycles below 2795. Tr coal.
S.E. HEDINIA 1	829	1083	254	CDP / MS		Poor to no rtns, v fine to fine sst with com glauc, tr lithics & carb matter
S.E. HEDINIA 1	1083	1580	497	MS		Monotonous siltst & clayst with occ lam & intbes of v fine sst
S.E. HEDINIA 1	1580	1786	206	MS / CDP		Siltst & clayst with minor v fine sst intbeds, tr to abun glauc
S.E. HEDINIA 1	1786	1820	34	CSFU	OB	Fine to med, occ crse, well rdd, loose ip, qtz sst, abun glauc. Limited rtns
S.E. HEDINIA 1	1820	1829	9	CSFU		
S.E. HEDINIA 1	1829	1865	36	CSFU	OB	Blocky clean log profile, v fine to med, loose ip, qtz sst
S.E. HEDINIA 1	1865	1965	100	MS / CSFL		Siltst & clayst with occ v fine sst
S.E. HEDINIA 1	1965	1977	12	CSFL	BB	V fine to med, occ crse, poor to mod srt qtz sst, tr glauc & hint of coarsening up
S.E. HEDINIA 1	1977	2057	80	CSFL		Partial rtns, siltst & clayst with intbeds v fine to fine sst
S.E. HEDINIA 1	2057	2063	6	CSFM	OB	Sharp base & top - partial rtns
S.E. HEDINIA 1	2063	2108	45	CSFM		Intbed v fine to fine sst & siltst, tr glauc

WELL NAME	DEPTH MRT	DEPTH TO MRT	THICK'S MRT	ENVIRONMENT CODE	LANDFORM ELEMENT CODE	COMMENTS
S.E. HEDINIA 1	2108	2123	15	CSFM	BB ?	Coarsening up log profile, no rtns
S.E. HEDINIA 1	2123	2140	17	CSFM		Siltst with occ v fine to fine sst intbeds
S.E. HEDINIA 1	2140	2184	44	CSFU	OB / C ?	3 cycles of med to crse, occ v crse, poor to mod srt sst, glauc, incomplete rtns
S.E. HEDINIA 1	2184	2208	24	CSFM		Intbed siltst & v fine to fine sst, tr carb spks
S.E. HEDINIA 1	2208	2224	16	CSFM	BB	2 coarsen up cycles from clayst, siltst, v fine to fine sst with sharp top
S.E. HEDINIA 1	2224	2242	18	CSFM		V fine to fine friable sst, com glauc
S.E. HEDINIA 1	2242	2267	25	CSFM	OB	V fine to fine, occ med, mod srt & rdd, friable sst, glaub, blocky clean log profile
S.E. HEDINIA 1	2267	2322	55	CSFL		Siltst & v fine to fine sst, some clayst, glauc, tr carb matter
S.E. HEDINIA 1	2322	2337	15	CSFM	OB	Fine to med, mod srt sst, top is possibly beach ?
S.E. HEDINIA 1	2337	2378	41	CSFM		V fine well srt sst, minor glauc, intbed siltst
S.E. HEDINIA 1	2378	2418	40	CSFM	OB / BB ?	V fine to fine, occ med, mod srt qtz sst, tr glauc & intbed siltst
S.E. HEDINIA 1	2418	2438	20	CSFL		Clayst & siltst with minor v fine sst intbeds
S.E. HEDINIA 1	2438	2451	13	CSFL	BB	V fine to fine, mod rdd & srt, qtz sst, tr glauc, hint of coarsening up log profile
S.E. HEDINIA 1	2451	2476	25	CSFL		
S.E. HEDINIA 1	2476	2509	33	CSFM	OB / BB ?	V fine to fine, mod srt & rdd, qtz sst, glauc & minor intbeds clayst & siltst
S.E. HEDINIA 1	2509	2522	13	CSFL		Clayst & siltst with v minor v fine sst intbeds
S.E. HEDINIA 1	2522	2536	14	CSFL	BB	V fine to fine, occ med, qtz sst, tr glauc, broad coarsen up with sharp top
S.E. HEDINIA 1	2536	2573	37	CSFL		V fine to fine qtz sst with silty intbeds
S.E. HEDINIA 1	2573	3094	521	CDP / MS		Intbed v fine to fine qtz sst, siltst & clayst, tr to com glauc, occ carb specks
WABUDA 1	1856	2242	386	MS	CSH	Dom siltst & clayst grade ip to v fine sst, glauc throughout
WABUDA 1	2242	2261	19	CSFU	OB	Well srt fine to med qtz sst, tr glauc
WABUDA 1	2261	2276	15	CDP	SMB ?	Coarsening up qts sst, silty at base. Good progradation but perhaps not SMB
WABUDA 1	2276	2304	28	CDP		Dom siltst, abundant plant debris - nearshore - possibly bay ?
WABUDA 1	2304	2319	15	CSFM		Med to crse sst, loose grains ip, glauc
WABUDA 1	2319	2338	19	CSFU	OB ?	Med to crse sst, well rdd, glauc, blocky log character - Overlying OB is cleaner
WABUDA 1	2338	2364	26	CSFM		Fine to med sst intbedd with siltst, glauc
WABUDA 1	2364	2373	9	CSFU	OB ?	Fine to med sst with blocky log character
WABUDA 1	2373	2420	47	CSFL / CDP		Dom siltst & intbedd v fine sst, glauc, occ crse
WABUDA 1	2420	2489	69	CDP		Dom siltst & clayst, some fine to med sst, occ crse, tr glauc
WABUDA 1	2489	2497	8	CDP	C / OB ?	Mod srt fine to med qtz sst, tr felds, occ crse grain, blocky log character
WABUDA 1	2497	2516	19	CDP		
WABUDA 1	2516	2546	30	CDP	OB ?	V fine to fine sst, mod well srt, tr feld, sharp base - possible OB ?

WELL NAME	DEPTH	DEPTH TO	THICK'S	ENVIRONMENT	LANDFORM	COMMENTS
	MRT	MRT	MRT	CODE	ELEMENT CODE	
WABUDA 1	2546	2722	176	MS / CDP		Dom siltst, glauc, slightly calc, carb matter ip
WABUDA 1	2722	2787	65	MS		Intbedd v fine sst / siltst / clayst, glauc & occ carb lam
WABUDA 1	2787	2842	55	MS	FM	Intbedd sst / siltst / clayst, hint of coarsening up, varied palynofacies hence FM ?
WABUDA 1	2842	2850	8	MS	C ?	Poor srt, med to occ crse sst, tr glauc & blocky log character
WABUDA 1	2850	3048	198	MS	FM	Intbed v fine to occ crse sst / clayst / siltst, felds, glauc, Morgan suggest turbidites

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PAPUAN BASIN MODULE

APPENDIX 8 : CORE DATA

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Anchor Cay 1	1	3001.0	3021.0	914.7	920.8	20.0	6.1	6.7	2.0	33.5%	AGSO	
Anchor Cay 1	2	3325.0	3345.0	1013.5	1019.6	20.0	6.1	2.5	0.8	12.5%	AGSO	
Anchor Cay 1	3	7325.0	7406.0	2232.7	2257.3	25.0	7.6	25.0	7.6	100.0%	AGSO	
Anchor Cay 1	4	9956.0	9968.0	3034.6	3038.2	12.0	3.7	9.0	2.7	75.0%	AGSO	
Anchor Cay 1	5	10865.0	10875.0	3311.7	3314.7	10.0	3.0	10.0	3.0	100.0%	AGSO	
Anchor Cay 1	6	11693.0	11705.0	3564.0	3567.7	12.0	3.7	12.0	3.7	100.0%	AGSO	
Angore 1	1	13133.9	13158.5	4003.2	4010.7	24.6	7.5	24.6	7.5	100.0%	PNG	V.poor qual - broken into max 10cm lumps
Angore 1	2	13163.1	13214.9	4012.1	4027.9	51.8	15.8	51.8	15.8	100.0%	PNG	V.poor qual - broken into max 10cm lumps
Aramia 1	1	330.0	340.0	100.6	103.6	10.0	3.0	4.0	1.2	40.0%	AGSO / PNG	
Aramia 1	2	605.0	615.0	184.4	187.5	10.0	3.0	5.0	1.5	50.0%	AGSO / PNG	
Aramia 1	3	744.0	754.0	226.8	229.8	10.0	3.0	5.0	1.5	50.0%	AGSO / PNG	
Aramia 1	4	1027.0	1037.0	313.0	316.1	10.0	3.0	6.0	1.8	60.0%	AGSO / PNG	
Aramia 1	5	1053.0	1063.0	321.0	324.0	10.0	3.0	0.5	0.2	5.0%	AGSO / PNG	
Aramia 1	6	1063.0	1068.0	324.0	325.5	5.0	1.5	0.8	0.2	15.0%	AGSO / PNG	
Aramia 1	7	1492.0	1502.0	454.8	457.8	10.0	3.0	0.0	0.0	0.0%	AGSO / PNG	
Aramia 1	8	1663.0	1666.0	506.9	507.8	3.0	0.9	0.3	0.1	10.0%	AGSO / PNG	
Aramia 1	9	1889.0	1899.0	575.8	578.8	10.0	3.0	0.0	0.0	0.0%	AGSO / PNG	
Aramia 1	10	1899.0	1909.0	578.8	581.9	10.0	3.0	5.0	1.5	50.0%	AGSO / PNG	
Aramia 1	11	2150.0	2160.0	655.3	658.4	10.0	3.0	10.0	3.0	100.0%	AGSO / PNG	
Aramia 1	12	2220.0	2230.0	676.7	679.7	10.0	3.0	2.0	0.6	20.0%	AGSO / PNG	
Aramia 1	13	2430.0	2440.0	740.7	743.7	10.0	3.0	0.5	0.2	5.0%	AGSO / PNG	
Aramia 1	14	2633.0	2643.0	802.5	805.6	10.0	3.0	2.0	0.6	20.0%	AGSO / PNG	
Aramia 1	15	2850.0	2860.0	868.7	871.7	10.0	3.0	0.5	0.2	5.0%	AGSO / PNG	
Aramia 1	16	3089.0	3099.0	941.5	944.6	10.0	3.0	0.0	0.0	0.0%	AGSO / PNG	
Aramia 1	17	3099.0	3109.0	944.6	947.6	10.0	3.0	0.5	0.2	5.0%	AGSO / PNG	
Aramia 1	18	3268.0	3278.0	996.1	999.1	10.0	3.0	2.5	0.8	25.0%	AGSO / PNG	
Aramia 1	19	3449.0	3459.0	1051.3	1054.3	10.0	3.0	2.0	0.6	20.0%	AGSO / PNG	
Aramia 1	20	3598.0	3608.0	1096.7	1099.7	10.0	3.0	10.0	3.0	100.0%	AGSO / PNG	

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Aramia 1	21	3608.0	3618.0	1099.7	1102.8	10.0	3.0	3.5	1.1	35.0%	AGSO / PNG	
Aramia 1	22	3681.0	3686.0	1122.0	1123.5	5.0	1.5	1.0	0.3	20.0%	AGSO / PNG	
Aramia 1	23	3710.0	3720.0	1130.8	1133.9	10.0	3.0	3.0	0.9	30.0%	AGSO / PNG	
Aramia 1	24	3760.0	3770.0	1146.0	1149.1	10.0	3.0	10.0	3.0	100.0%	AGSO / PNG	
Aramia 1	25	3970.0	3976.0	1210.1	1211.9	6.0	1.8	6.0	1.8	100.0%	AGSO / PNG	
Aramia 1	26	4112.0	4122.0	1253.3	1256.4	10.0	3.0	10.0	3.0	100.0%	AGSO / PNG	
Aramia 1	27	4313.0	4322.0	1314.6	1317.3	9.0	2.7	3.2	1.0	35.0%	AGSO / PNG	
Aramia 1	28	4522.0	4528.0	1378.3	1380.1	6.0	1.8	6.0	1.8	100.0%	AGSO / PNG	
Aramia 1	29	4700.0	4708.0	1432.6	1435.0	8.0	2.4	2.0	0.6	25.0%	AGSO / PNG	
Aramia 1	30	4910.0	4918.0	1496.6	1499.0	8.0	2.4	4.0	1.2	50.0%	AGSO / PNG	
Aramia 1	31	5170.0	5180.0	1575.8	1578.9	10.0	3.0	3.5	1.1	35.0%	AGSO / PNG	
Aramia 1	32	5244.0	5264.0	1598.4	1604.5	20.0	6.1	12.0	3.7	60.0%	AGSO / PNG	
Aramia 1	33	5496.0	5516.0	1675.2	1681.3	20.0	6.1	20.0	6.1	100.0%	AGSO / PNG	
Aramia 1	34	5715.0	5730.0	1741.9	1746.5	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Aramia 1	35	5936.0	5956.0	1809.3	1815.4	20.0	6.1	20.0	6.1	100.0%	AGSO / PNG	
Aramia 1	36	6140.0	6150.0	1871.5	1874.5	10.0	3.0	10.0	3.0	100.0%	AGSO / PNG	
Aramia 1	37	6350.0	6370.0	1935.5	1941.6	20.0	6.1	20.0	6.1	100.0%	AGSO / PNG	
Aramia 1	38	6514.0	6516.0	1985.5	1986.1	2.0	0.6	0.0	0.0	0.0%	AGSO / PNG	
Aramia 1	39	6614.0	6628.0	2015.9	2020.2	14.0	4.3	14.0	4.3	100.0%	AGSO / PNG	
Barikewa 1	1	439.0	440.8	133.8	134.3	1.8	0.5				AGSO / PNG	Recovery unknown
Barikewa 1	2	672.0	673.5	204.8	205.3	1.5	0.5				AGSO / PNG	Recovery unknown
Barikewa 1	3	673.5	675.0	205.3	205.7	1.5	0.5				AGSO / PNG	Recovery unknown
Barikewa 1	4	979.0	980.5	298.4	298.9	1.5	0.5				AGSO / PNG	Recovery unknown
Barikewa 1	5	1280.0	1281.0	390.1	390.4	1.0	0.3				AGSO / PNG	Recovery unknown
Barikewa 1	7	1505.3	1510.6	458.8	460.4	5.3	1.6				AGSO / PNG	No core number 6
Barikewa 1	8	1856.0	1858.0	565.7	566.3	2.0	0.6				AGSO / PNG	Recovery unknown
Barikewa 1	9	2570.0	2582.0	783.3	787.0	12.0	3.7				AGSO / PNG	Recovery unknown
Barikewa 1	10	2832.0	2834.0	863.2	863.8	2.0	0.6				AGSO / PNG	Recovery unknown

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Barikewa 1	11	3193.0	3203.0	973.2	976.3	10.0	3.0				AGSO / PNG	Recovery unknown
Barikewa 1	12	3290.0	3295.0	1002.8	1004.3	5.0	1.5				AGSO / PNG	Recovery unknown
Barikewa 1	13	3431.0	3450.0	1045.8	1051.6	19.0	5.8				AGSO / PNG	Recovery unknown
Barikewa 1	14	3946.0	3966.0	1202.7	1208.8	20.0	6.1				AGSO / PNG	Recovery unknown
Barikewa 1	15	4205.0	4215.0	1281.7	1284.7	10.0	3.0				AGSO / PNG	Recovery unknown
Barikewa 1	16	4470.0	4480.0	1362.5	1365.5	10.0	3.0				AGSO / PNG	Recovery unknown
Barikewa 1	17	4632.0	4642.0	1411.8	1414.9	10.0	3.0	0.0	0.0	0.0%	AGSO / PNG	
Barikewa 1	18	4735.0	4746.0	1443.2	1446.6	11.0	3.4				AGSO / PNG	Recovery unknown
Barikewa 1	19	5005.0	5022.0	1525.5	1530.7	17.0	5.2				AGSO / PNG	Recovery unknown
Barikewa 1	20	5435.0	5448.0	1656.6	1660.6	13.0	4.0				AGSO / PNG	Recovery unknown
Barikewa 1	21	5772.0	5782.0	1759.3	1762.4	10.0	3.0				AGSO / PNG	Recovery unknown
Barikewa 1	22	6012.0	6022.0	1832.5	1835.5	10.0	3.0				AGSO / PNG	Recovery unknown
Barikewa 1	23	6220.0	6243.0	1895.9	1902.9	23.0	7.0				AGSO / PNG	Recovery unknown
Barikewa 1	24	7192.0	7204.0	2192.1	2195.8	12.0	3.7				AGSO / PNG	Recovery unknown
Barikewa 1	25	8028.0	8035.0	2446.9	2449.1	7.0	2.1				AGSO / PNG	Recovery unknown
Barikewa 1	26	8382.0	8384.0	2554.8	2555.4	2.0	0.6				AGSO / PNG	Recovery unknown
Barikewa 1	27	8657.0	8672.0	2638.7	2643.2	15.0	4.6				AGSO / PNG	Recovery unknown
Barikewa 1	28	9728.0	9745.0	2965.1	2970.3	17.0	5.2				AGSO / PNG	Recovery unknown
Barikewa 1	29	10287.0	10289.0	3135.5	3136.1	2.0	0.6				AGSO / PNG	Recovery unknown
Barikewa 1	30	11038.0	11046.0	3364.4	3366.8	8.0	2.4				AGSO / PNG	Recovery unknown
Darai 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken
Dibiri 1	1	16054.0	16061.0	4893.3	4895.4	7.0	2.1	3.5	1.1	50.0%	AGSO / PNG	
Elevala 1	1	10118.6	10128.0	3084.1	3087.0	9.38	2.9	9.2	2.8	98.0%	PNG	
Elevala 1	2	10128.0	10187.7	3087.0	3105.2	59.7	18.2	58.5	17.8	98.0%	PNG	
Elevala 1	3	10574.1	10576.4	3223.0	3223.7	2.3	0.7	0	0.0	0.0%	PNG	
Elevala 1	4	10576.4	10583.0	3223.7	3225.7	6.56	2.0	0.92	0.3	14.0%	PNG	
Goari 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken
Goaribari 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Gobe 1X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken
Hedinia 1X	1	6945.0	6975.0	2116.8	2126.0	30.0	9.1	30.0	9.1	100.0%	PNG	
Iagifu 2X	1	8058.0	8088.0	2456.1	2465.2	30.0	9.1	29.5	9.0	98.3%	PNG	
Iagifu 2X	2	8088.0	8116.5	2465.2	2473.9	28.5	8.7	27.8	8.5	97.7%	PNG	
Iagifu 2X	3	8116.5	8120.0	2473.9	2475.0	3.5	1.1	3.0	0.9	85.7%	PNG	
Iagifu 2X	4	8120.0	8134.0	2475.0	2479.2	14.0	4.3	13.7	4.2	97.9%	PNG	
Iagifu 2X	5	8151.0	8158.5	2484.4	2486.7	7.5	2.3	6.8	2.1	90.6%	PNG	
Iamara 1	1	351.0	371.0	107.0	113.1	20.0	6.1	0.0	0.0	0.0%	AGSO / PNG	
Iamara 1	2	371.0	391.0	113.1	119.2	20.0	6.1	7.6	2.3	38.0%	AGSO / PNG	
Iamara 1	3	890.0	910.0	271.3	277.4	20.0	6.1	12.0	3.7	60.0%	AGSO / PNG	
Iamara 1	4	1311.0	1329.0	399.6	405.1	18.0	5.5	14.0	4.3	78.0%	AGSO / PNG	
Iamara 1	5	1920.0	1932.0	585.2	588.9	12.0	3.7	3.5	1.1	29.0%	AGSO / PNG	
Iamara 1	6	2494.0	2514.0	760.2	766.3	20.0	6.1	7.0	2.1	35.0%	AGSO / PNG	
Iamara 1	7	2993.0	3006.0	912.3	916.2	13.0	4.0	9.0	2.7	69.0%	AGSO / PNG	
Iamara 1	8	3006.0	3009.0	916.2	917.1	3.0	0.9	0.0	0.0	0.0%	AGSO / PNG	
Iamara 1	9	3361.0	3381.0	1024.4	1030.5	20.0	6.1	15.0	4.6	75.0%	AGSO / PNG	
Iamara 1	10	3500.0	3521.0	1066.8	1073.2	21.0	6.4	21.0	6.4	100.0%	AGSO / PNG	
Iamara 1	11	3870.0	3890.0	1179.6	1185.7	20.0	6.1	20.0	6.1	100.0%	AGSO / PNG	
Iamara 1	12	4192.0	4202.0	1277.7	1280.8	10.0	3.0	7.0	2.1	70.0%	AGSO / PNG	
Iamara 1	13	4494.0	4514.0	1369.8	1375.9	20.0	6.1	18.0	5.5	90.0%	AGSO / PNG	
Iamara 1	14	4796.0	4808.0	1461.8	1465.5	12.0	3.7	7.0	2.1	58.0%	AGSO / PNG	
Iamara 1	15	5098.0	5113.0	1553.9	1558.4	15.0	4.6	13.1	4.0	87.0%	AGSO / PNG	
Iamara 1	16	5431.0	5451.0	1655.4	1661.5	20.0	6.1	6.0	1.8	30.0%	AGSO / PNG	
Iamara 1	17	5712.0	5732.0	1741.0	1747.1	20.0	6.1	20.0	6.1	100.0%	AGSO / PNG	
Iamara 1	18	5932.0	5938.0	1808.1	1809.9	6.0	1.8	6.0	1.8	100.0%	AGSO / PNG	
Iamara 1	19	5938.0	5950.0	1809.9	1813.6	12.0	3.7	4.0	1.2	33.0%	AGSO / PNG	
Iehi 1	1	276.0	296.0	84.1	90.2	20.0	6.1	2.0	0.6	10.0%	AGSO	
Iehi 1	2	546.0	566.0	166.4	172.5	20.0	6.1	0.0	0.0	0.0%	AGSO	

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Iehi 1	3	700.0	720.0	213.4	219.5	20.0	6.1	2.4	0.7	12.0%	AGSO	
Iehi 1	4	928.0	948.0	282.9	289.0	20.0	6.1	10.0	3.0	50.0%	AGSO	
Iehi 1	5	1110.0	1130.0	338.3	344.4	20.0	6.1	2.0	0.6	10.0%	AGSO	
Iehi 1	6	1230.0	1251.0	374.9	381.3	21.0	6.4	0.0	0.0	0.0%	AGSO	
Iehi 1	7	1410.0	1430.0	429.8	435.9	20.0	6.1	9.0	2.7	45.0%	AGSO	
Iehi 1	8	1650.0	1670.0	502.9	509.0	20.0	6.1	2.4	0.7	12.0%	AGSO	
Iehi 1	9	1860.0	1870.0	566.9	570.0	10.0	3.0	3.0	0.9	30.0%	AGSO	
Iehi 1	10	2095.0	2115.0	638.6	644.7	20.0	6.1	3.0	0.9	15.0%	AGSO	
Iehi 1	11	2270.0	2291.0	691.9	698.3	21.0	6.4	18.5	5.6	88.0%	AGSO	
Iehi 1	12	2341.0	2351.0	713.5	716.6	10.0	3.0	9.5	2.9	95.0%	AGSO	
Iehi 1	13	2370.0	2379.5	722.4	725.3	9.5	2.9	1.4	0.4	15.0%	AGSO	
Iehi 1	14	2430.0	2432.0	740.7	741.3	2.0	0.6	1.0	0.3	50.0%	AGSO	
Iehi 1	15	2675.0	2685.0	815.3	818.4	10.0	3.0	0.0	0.0	0.0%	AGSO	
Iehi 1	16	2692.0	2712.0	820.5	826.6	20.0	6.1	14.0	4.3	70.0%	AGSO	
Iehi 1	17	2931.0	2951.0	893.4	899.5	20.0	6.1	14.0	4.3	70.0%	AGSO	
Iehi 1	18	3052.0	3072.0	930.2	936.3	20.0	6.1	20.0	6.1	100.0%	AGSO	
Iehi 1	19	3246.0	3266.0	989.4	995.5	20.0	6.1	19.0	5.8	95.0%	AGSO	
Iehi 1	20	3532.0	3544.0	1076.6	1080.2	12.0	3.7	6.6	2.0	55.0%	AGSO	
Iehi 1	21	3738.0	3751.0	1139.3	1143.3	13.0	4.0	10.4	3.2	80.0%	AGSO	
Iehi 1	22	4044.0	4064.0	1232.6	1238.7	20.0	6.1	20.0	6.1	100.0%	AGSO	
Iehi 1	23	4296.0	4306.0	1309.4	1312.5	10.0	3.0	0.0	0.0	0.0%	AGSO	
Iehi 1	24	4350.0	4362.0	1325.9	1329.5	12.0	3.7	0.0	0.0	0.0%	AGSO	
Iehi 1	25	4612.0	4629.0	1405.7	1410.9	17.0	5.2	14.5	4.4	85.0%	AGSO	
Iehi 1	26	4712.0	4732.0	1436.2	1442.3	20.0	6.1	20.0	6.1	100.0%	AGSO	
Iehi 1	27	4732.0	4780.0	1442.3	1456.9	48.0	14.6	37.0	11.3	77.0%	AGSO	
Iehi 1	28	5028.0	5052.0	1532.5	1539.8	24.0	7.3	24.0	7.3	100.0%	AGSO	
Iehi 1	29	5068.0	5087.0	1544.7	1550.5	19.0	5.8	18.1	5.5	95.0%	AGSO	
Iehi 1	30	5246.0	5258.0	1599.0	1602.6	12.0	3.7	10.2	3.1	85.0%	AGSO	

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Iehi 1	31	5258.0	5262.0	1602.6	1603.9	4.0	1.2	3.0	0.9	75.0%	AGSO	
Iehi 1	32	5264.0	5288.0	1604.5	1611.8	24.0	7.3	20.4	6.2	85.0%	AGSO	
Iehi 1	33	5288.0	5328.0	1611.8	1624.0	40.0	12.2	32.0	9.8	80.0%	AGSO	
Iehi 1	34	5518.0	5558.0	1681.9	1694.1	40.0	12.2	40.0	12.2	100.0%	AGSO	
Iehi 1	35	5764.0	5776.0	1756.9	1760.5	12.0	3.7	11.4	3.5	95.0%	AGSO	
Iehi 1	36	6004.0	6014.0	1830.0	1833.1	10.0	3.0	7.5	2.3	75.0%	AGSO	
Iehi 1	37	6508.0	6515.0	1983.6	1985.8	7.0	2.1	5.5	1.7	79.0%	AGSO	
Iehi 1	38	6760.0	6768.0	2060.4	2062.9	8.0	2.4	6.0	1.8	75.0%	AGSO	
Iehi 1	39	7010.0	7025.0	2136.6	2141.2	15.0	4.6	15.0	4.6	100.0%	AGSO	
Iehi 1	40	7325.0	7335.0	2232.7	2235.7	10.0	3.0	10.0	3.0	100.0%	AGSO	
Iehi 1	41	7628.0	7638.0	2325.0	2328.1	10.0	3.0	7.5	2.3	75.0%	AGSO	
Iehi 1	42	8126.0	8136.0	2476.8	2479.9	10.0	3.0	10.0	3.0	100.0%	AGSO	
Iehi 1	43	8556.0	8566.0	2607.9	2610.9	10.0	3.0	10.0	3.0	100.0%	AGSO	
Iehi 1	44	8932.0	8937.0	2722.5	2724.0	5.0	1.5	4.0	1.2	80.0%	AGSO	
Iehi 1	45	8984.0	8994.0	2738.3	2741.4	10.0	3.0	7.0	2.1	70.0%	AGSO	
Iehi 1	46	9214.0	9224.0	2808.4	2811.5	10.0	3.0	10.0	3.0	100.0%	AGSO	
Iehi 1	47	9600.0	9610.0	2926.1	2929.1	10.0	3.0	10.0	3.0	100.0%	AGSO	
Iehi 1	48	10032.0	10042.0	3057.8	3060.8	10.0	3.0	9.0	2.7	90.0%	AGSO	
Irogabaiu 1X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken
Juha 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken
Kanau 1	1	11400.9	11430.4	3475.0	3484.0	29.5	9.0	15.6	4.8	52.8%	PNG	
Kiunga 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken
Komewu 1	1	567	582	172.8	177.4	15.0	4.6				AGSO / PNG	Recovery unknown
Komewu 1	2	890	900	271.3	274.3	10.0	3.0				AGSO / PNG	Recovery unknown
Komewu 1	3	1205	1215	367.3	370.3	10.0	3.0				AGSO / PNG	Recovery unknown
Komewu 1	4	1578	1583	481.0	482.5	5.0	1.5				AGSO / PNG	Recovery unknown
Komewu 1	5	1780	1781	542.5	542.8	1.0	0.3				AGSO / PNG	Recovery unknown
Komewu 1	6	2308	2318	703.5	706.5	10.0	3.0				AGSO / PNG	Recovery unknown

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Komewu 1	7	2515	2525	766.6	769.6	10.0	3.0				AGSO / PNG	Recovery unknown
Komewu 1	8	2870	2880	874.8	877.8	10.0	3.0				AGSO / PNG	Recovery unknown
Komewu 1	9	3079	3089	938.5	941.5	10.0	3.0				AGSO / PNG	Recovery unknown
Komewu 1	10	3401	3410	1036.6	1039.4	9.0	2.7				AGSO / PNG	Recovery unknown
Komewu 1	11	3730	3735	1136.9	1138.4	5.0	1.5				AGSO / PNG	Recovery unknown
Komewu 1	12	4114	4120	1253.9	1255.8	6.0	1.8				AGSO / PNG	Recovery unknown
Komewu 1	13	4560	4565	1389.9	1391.4	5.0	1.5				AGSO / PNG	Recovery unknown
Komewu 1	14	4767	4772	1453.0	1454.5	5.0	1.5				AGSO / PNG	Recovery unknown
Komewu 1	15	5261	5266	1603.6	1605.1	5.0	1.5				AGSO / PNG	Recovery unknown
Komewu 1	16	5475	5492	1668.8	1674.0	17.0	5.2				AGSO / PNG	Recovery unknown
Komewu 1	17	5530	5541	1685.5	1688.9	11.0	3.4				AGSO / PNG	Recovery unknown
Komewu 1	18	5666	5684	1727.0	1732.5	18.0	5.5				AGSO / PNG	Recovery unknown
Komewu 1	19	5843	5855	1780.9	1784.6	12.0	3.7				AGSO / PNG	Recovery unknown
Komewu 1	20	6262	6265.5	1908.7	1909.7	3.5	1.1				AGSO / PNG	Recovery unknown
Komewu 2	1	4867.0	4869.0	1483.5	1484.1	2.0	0.6				AGSO / PNG	Esso 1975 study details environments of depo
Komewu 2	2	5070.0	5072.0	1545.3	1545.9	2.0	0.6				AGSO / PNG	Recovery unknown
Komewu 2	3	5296.0	5308.5	1614.2	1618.0	12.5	3.8				AGSO / PNG	Recovery unknown
Komewu 2	4	5515.0	5524.0	1681.0	1683.7	9.0	2.7	0.0	0.0	0.0%	AGSO / PNG	
Komewu 2	5	5524.0	5531.0	1683.7	1685.8	7.0	2.1				AGSO / PNG	Recovery unknown
Komewu 2	6	5785.0	5792.0	1763.3	1765.4	7.0	2.1				AGSO / PNG	Recovery unknown
Komewu 2	7	6134.0	6136.0	1869.6	1870.3	2.0	0.6	0.0	0.0	0.0%	AGSO / PNG	
Komewu 2	9	6136.0	6138.0	1870.3	1870.9	2.0	0.6				AGSO / PNG	Recovery unknown
Komewu 2	10	6830.0	6843.0	2081.8	2085.7	13.0	4.0				AGSO / PNG	Recovery unknown
Komewu 2	11	7330.0	7345.0	2234.2	2238.8	15.0	4.6				AGSO / PNG	Recovery unknown
Komewu 2	12	7663.0	7678.0	2335.7	2340.3	15.0	4.6				AGSO / PNG	Recovery unknown
Komewu 2	13	8320.0	8331.0	2535.9	2539.3	11.0	3.4				AGSO / PNG	Recovery unknown
Komewu 2	14	9330.0	9341.0	2843.8	2847.1	11.0	3.4				AGSO / PNG	Recovery unknown
Komewu 2	15	9387.0	9399.0	2861.2	2864.8	12.0	3.7				AGSO / PNG	Recovery unknown

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Komewu 2	16	9963.0	9977.0	3036.7	3041.0	14.0	4.3				AGSO / PNG	Recovery unknown
Kusa 1	1	8132.0	8170.0	2478.6	2490.2	38.0	11.6	11.5	3.5	30.3%	AGSO / PNG ?	
Kusa 1	2	11230.0	11265.0	3422.9	3433.6	35.0	10.7	35.0	10.7	100.0%	AGSO / PNG ?	
Lake Murray 2	1	6332.0	6344.0	1930.0	1933.7	12.0	3.7	12.0	3.7	100.0%	AGSO / PNG	Basement
Lavani 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken
Magobu Island 1	1	613.0	633.0	186.8	192.9	20.0	6.1	1.0	0.3	5.0%	AGSO	
Magobu Island 1	2	1240.0	1260.0	378.0	384.0	20.0	6.1	3.0	0.9	15.0%	AGSO	
Magobu Island 1	3	2004.0	2024.0	610.8	616.9	20.0	6.1	1.0	0.3	5.0%	AGSO	
Magobu Island 1	4	3011.0	3041.0	917.8	926.9	30.0	9.1	30.0	9.1	100.0%	AGSO	
Magobu Island 1	5	3659.0	3669.0	1115.3	1118.3	10.0	3.0	8.5	2.6	85.0%	AGSO	
Magobu Island 1	6	4283.0	4311.0	1305.5	1314.0	28.0	8.5	7.0	2.1	25.0%	AGSO	
Magobu Island 1	7	4966.0	4989.0	1513.6	1520.6	23.0	7.0	22.1	6.7	96.0%	AGSO	
Magobu Island 1	8	5782.0	5812.0	1762.4	1771.5	30.0	9.1	30.0	9.1	100.0%	AGSO	
Magobu Island 1	9	6773.0	6794.0	2064.4	2070.8	21.0	6.4	21.0	6.4	100.0%	AGSO	
Magobu Island 1	10	7705.0	7726.0	2348.5	2354.9	21.0	6.4	21.0	6.4	100.0%	AGSO	
Mananda 3X	1	8007.0	8028.0	2440.5	2446.9	21.0	6.4	20.8	6.3	99.0%	PNG	
Mananda 3X	2	8028.0	8052.0	2446.9	2454.2	24.0	7.3	20.8	6.3	86.5%	PNG	
Mananda 3X	3	8052.0	8082.0	2454.2	2463.4	30.0	9.1	30.0	9.1	100.0%	PNG	
Mananda 3X	4	8082.0	8112.0	2463.4	2472.5	30.0	9.1	30.0	9.1	100.0%	PNG	
Mananda 3X	5	8138.0	8168.0	2480.5	2489.6	30.0	9.1	30.0	9.1	100.0%	PNG	
Mananda 3X	6	8168.0	8198.0	2489.6	2498.8	30.0	9.1	29.8	9.1	99.2%	PNG	
Mananda 3X	7	8198.0	8227.0	2498.8	2507.6	29.0	8.8	28.5	8.7	98.1%	PNG	
Mananda 3X	8	8227.0	8257.0	2507.6	2516.7	30.0	9.1	27.6	8.4	91.9%	PNG	
Mananda 3X	9	8257.0	8287.0	2516.7	2525.9	30.0	9.1	21.6	6.6	72.1%	PNG	
Mananda 3X	10	8287.0	8317.0	2525.9	2535.0	30.0	9.1	30.0	9.1	100.0%	PNG	
Mananda 3X	11	8317.0	8347.0	2535.0	2544.2	30.0	9.1	29.2	8.9	97.4%	PNG	
Mananda 3X	12	8347.0	8350.0	2544.2	2545.1	3.0	0.9	2.3	0.7	75.0%	PNG	
Mananda 3X	13	8367.0	8397.0	2550.3	2559.4	30.0	9.1	28.0	8.5	93.5%	PNG	

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Morehead 1	1	395.0	405.0	120.4	123.4	10.0	3.0	0.2	0.0	1.6%	AGSO / PNG	
Morehead 1	2	405.0	415.0	123.4	126.5	10.0	3.0	0.2	0.0	1.6%	AGSO / PNG	
Morehead 1	3	415.0	425.0	126.5	129.5	10.0	3.0	0.0	0.0	0.0%	AGSO / PNG	
Morehead 1	4	425.0	435.0	129.5	132.6	10.0	3.0	0.2	0.0	1.6%	AGSO / PNG	
Morehead 1	5	635.0	645.0	193.5	196.6	10.0	3.0	0.3	0.1	2.5%	AGSO / PNG	
Morehead 1	6	856.0	866.0	260.9	264.0	10.0	3.0	0.3	0.1	2.5%	AGSO / PNG	
Morehead 1	7	1026.0	1036.0	312.7	315.8	10.0	3.0	0.5	0.2	5.0%	AGSO / PNG	
Morehead 1	8	1272.0	1302.0	387.7	396.8	30.0	9.1	0.2	0.0	0.5%	AGSO / PNG	
Morehead 1	9	1502.0	1512.0	457.8	460.9	10.0	3.0	0.3	0.1	3.3%	AGSO / PNG	
Morehead 1	10	1710.0	1720.0	521.2	524.3	10.0	3.0	0.3	0.1	3.3%	AGSO / PNG	
Morehead 1	11	1992.0	2022.0	607.2	616.3	30.0	9.1	0.1	0.0	0.3%	AGSO / PNG	
Morehead 1	12	2038.0	2068.0	621.2	630.3	30.0	9.1	1.5	0.5	5.0%	AGSO / PNG	
Morehead 1	13	2288.0	2298.0	697.4	700.4	10.0	3.0	5.6	1.7	56.0%	AGSO / PNG	
Morehead 1	14	2387.0	2397.0	727.6	730.6	10.0	3.0	0.0	0.0	0.0%	AGSO / PNG	
Morehead 1	15	2409.0	2424.0	734.3	738.8	15.0	4.6	1.1	0.3	7.2%	AGSO / PNG	
Morehead 1	16	2424.0	2439.0	738.8	743.4	15.0	4.6	0.3	0.1	1.7%	AGSO / PNG	
Morehead 1	17	2439.0	2449.0	743.4	746.5	10.0	3.0	4.5	1.4	45.0%	AGSO / PNG	
Morehead 1	18	2449.0	2459.0	746.5	749.5	10.0	3.0	3.5	1.1	35.0%	AGSO / PNG	
Morehead 1	19	2655.0	2677.0	809.2	815.9	22.0	6.7	19.0	5.8	86.4%	AGSO / PNG	
Morehead 1	20	2877.0	2897.0	876.9	883.0	20.0	6.1	0.6	0.2	2.9%	AGSO / PNG	
Morehead 1	21	3100.0	3115.0	944.9	949.5	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	22	3308.0	3323.0	1008.3	1012.9	15.0	4.6	10.0	3.0	66.7%	AGSO / PNG	
Morehead 1	23	3541.0	3556.0	1079.3	1083.9	15.0	4.6	2.0	0.6	13.3%	AGSO / PNG	
Morehead 1	24	3762.0	3777.0	1146.7	1151.2	15.0	4.6	7.0	2.1	46.7%	AGSO / PNG	
Morehead 1	25	3982.0	3997.0	1213.7	1218.3	15.0	4.6	0.0	0.0	0.0%	AGSO / PNG	
Morehead 1	26	4140.0	4154.0	1261.9	1266.1	14.0	4.3	4.0	1.2	28.6%	AGSO / PNG	
Morehead 1	27	4364.0	4379.0	1330.1	1334.7	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	28	4585.0	4600.0	1397.5	1402.1	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	

WELLNAME	Core Number	Top (ft)	Bottom (ft)	Top (m)	Bottom (m)	Cut (ft)	Cut (m)	Recovery (ft)	Recovery (m)	Recovery (%)	Location	Comments
Morehead 1	29	4807.0	4822.0	1465.2	1469.7	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	30	5029.0	5044.0	1532.8	1537.4	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	31	5250.0	5265.0	1600.2	1604.8	15.0	4.6	9.0	2.7	60.0%	AGSO / PNG	
Morehead 1	32	5470.0	5485.0	1667.3	1671.8	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	33	5689.0	5704.0	1734.0	1738.6	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	34	5913.0	5928.0	1802.3	1806.9	15.0	4.6	3.0	0.9	20.0%	AGSO / PNG	
Morehead 1	35	6133.0	6148.0	1869.3	1873.9	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	36	6304.0	6319.0	1921.5	1926.0	15.0	4.6	11.0	3.4	73.3%	AGSO / PNG	
Morehead 1	37	6538.0	6553.0	1992.8	1997.4	15.0	4.6	0.0	0.0	0.0%	AGSO / PNG	
Morehead 1	38	6660.0	6675.0	2030.0	2034.5	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	39	6787.0	6802.0	2068.7	2073.2	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	40	6920.0	6934.0	2109.2	2113.5	14.0	4.3	12.0	3.7	85.7%	AGSO / PNG	
Morehead 1	41	7103.0	7120.0	2165.0	2170.2	17.0	5.2	17.0	5.2	100.0%	AGSO / PNG	
Morehead 1	42	7304.0	7329.0	2226.3	2233.9	25.0	7.6	25.0	7.6	100.0%	AGSO / PNG	
Morehead 1	43	7427.0	7442.0	2263.7	2268.3	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	44	7521.0	7536.0	2292.4	2297.0	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	45	7602.0	7617.0	2317.1	2321.7	15.0	4.6	15.0	4.6	100.0%	AGSO / PNG	
Morehead 1	46	7670.0	7691.0	2337.8	2344.2	21.0	6.4	21.0	6.4	100.0%	AGSO / PNG	
Morehead 1	47	7889.0	7899.0	2404.6	2407.6	10.0	3.0	6.0	1.8	60.0%	AGSO / PNG	
Morehead 1	48	7962.0	7967.0	2426.8	2428.3	5.0	1.5	4.0	1.2	80.0%	AGSO / PNG	
Morigio 1	1	9199.5	9229.0	2804.0	2813.0	29.5	9.0	28.3	8.6	96.0%	PNG	
Omati 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AGSO / PNG	A total of 421 cores were taken between 85m & TD
Orie 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken
Pandora 1X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken
S. E. Hedinia 1X	1	5865.0	5873.0	1787.7	1790.1	8.0	2.4	0.0	0.0	0.0%	PNG	
S. E. Hedinia 1X	2	8690.0	8720.0	2648.7	2657.9	30.0	9.1	28.0	8.5	93.2%	PNG	
S. E. Hedinia 1X	3	10135.0	10150.0	3089.1	3093.7	15.0	4.6	15.0	4.6	100.0%	PNG	
Wabuda 1X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Cores taken

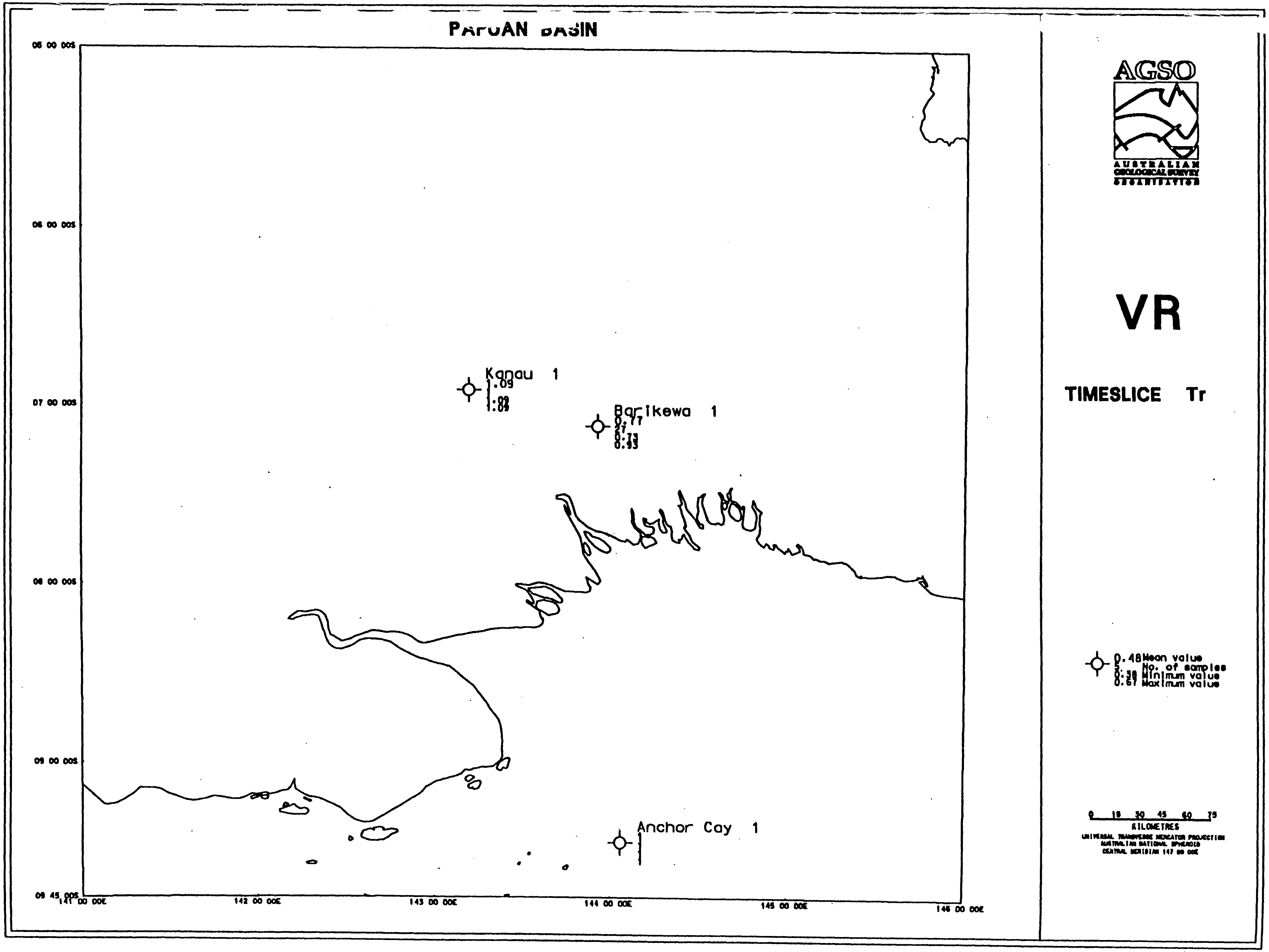
AGSO

AUSTRALIAN GEOLOGICAL
SURVEY ORGANISATION

AUSTRALIAN PETROLEUM SYSTEMS PROJECT

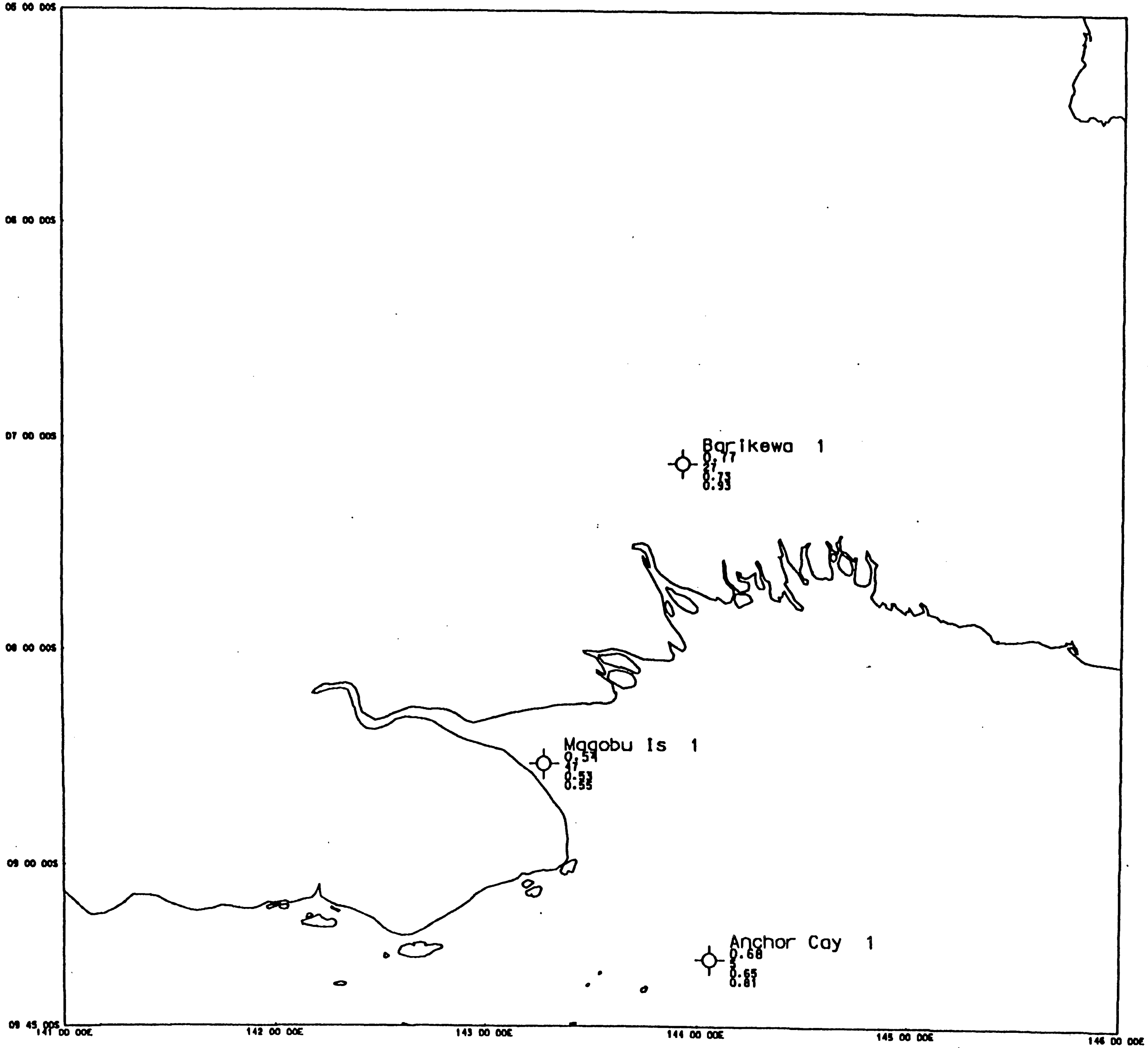
PAPUAN BASIN MODULE

APPENDIX 9 :
VITRINITE REFLECTANCE DATA MAPS
TOC DATA MAPS
HYDROGEN INDEX DATA MAPS



PAPUAN BASIN
Kanau 1
1.09
Barikewa 1
0.77
27
0.93
Anchor Cay 1
141 00 00E
142 00 00E
143 00 00E
144 00 00E
145 00 00E
146 00 00E
07 00 00S
08 00 00S
09 00 00S
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
VR
TIMESLICE Tr
0.48 Mean value
5 No. of samples
Minimum value
0.67 Maximum value
0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

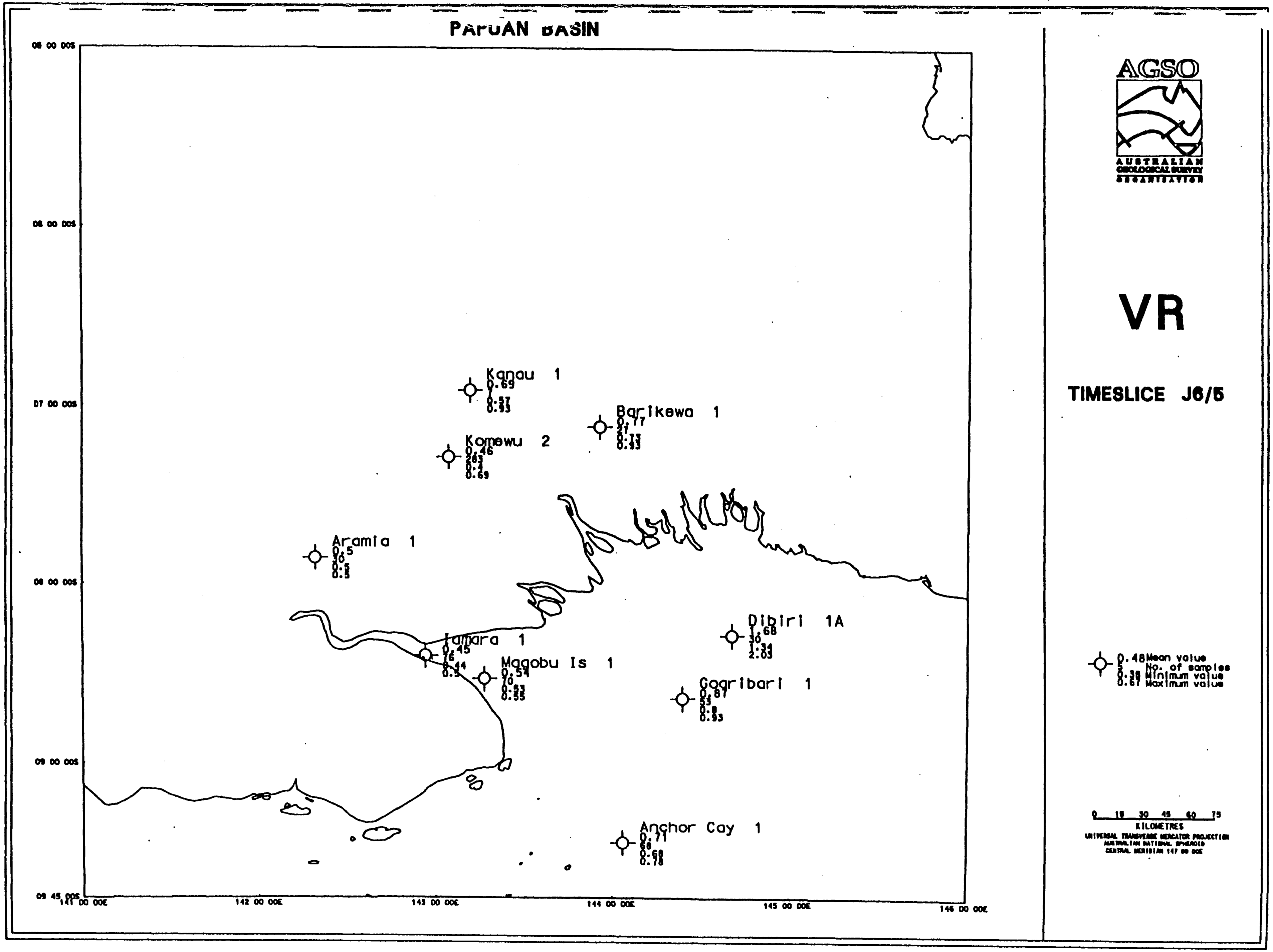
VR

TIMESLICE J1-4

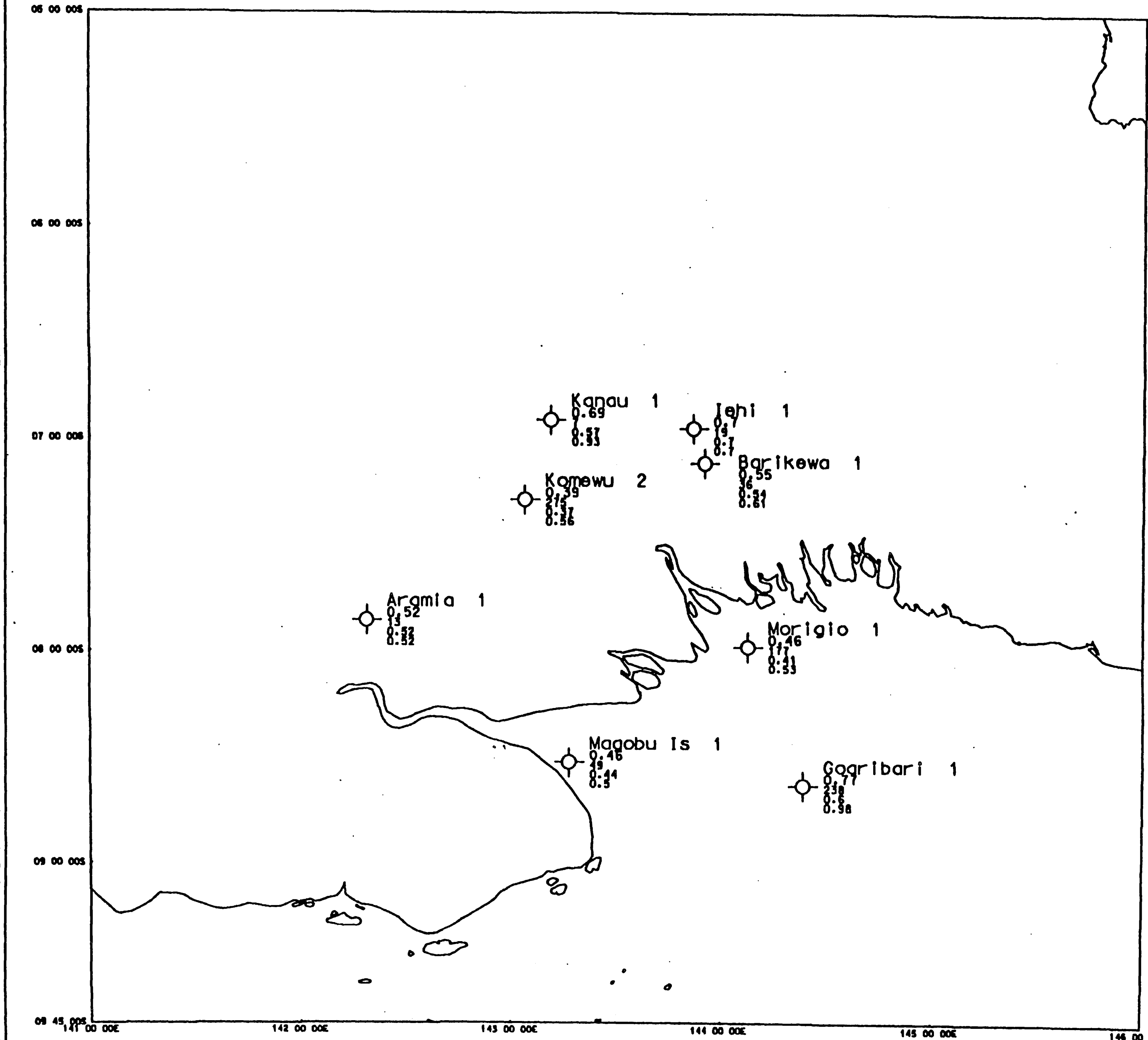
0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E


PAPUAN BASIN
06 00 00S
06 00 00S
07 00 00S
08 00 00S
09 00 00S
09 45 00S
141 00 00E
142 00 00E
143 00 00E
144 00 00E
145 00 00E
146 00 00E
Kanau 1
0.69
7
0.57
0.93
Barikewa 1
0.77
27
0.73
0.93
Komewu 2
0.46
263
0.4
0.69
Aramia 1
0.5
30
0.5
0.5
Tamara 1
0.45
76
0.44
0.5
Magobu Is 1
0.54
70
0.53
0.55
Dibiri 1A
1.68
30
1.34
2.03
Gogribari 1
0.87
53
0.8
0.93
Anchor Cay 1
0.71
68
0.68
0.78
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
VR
TIMESLICE J6/5
0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value
0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



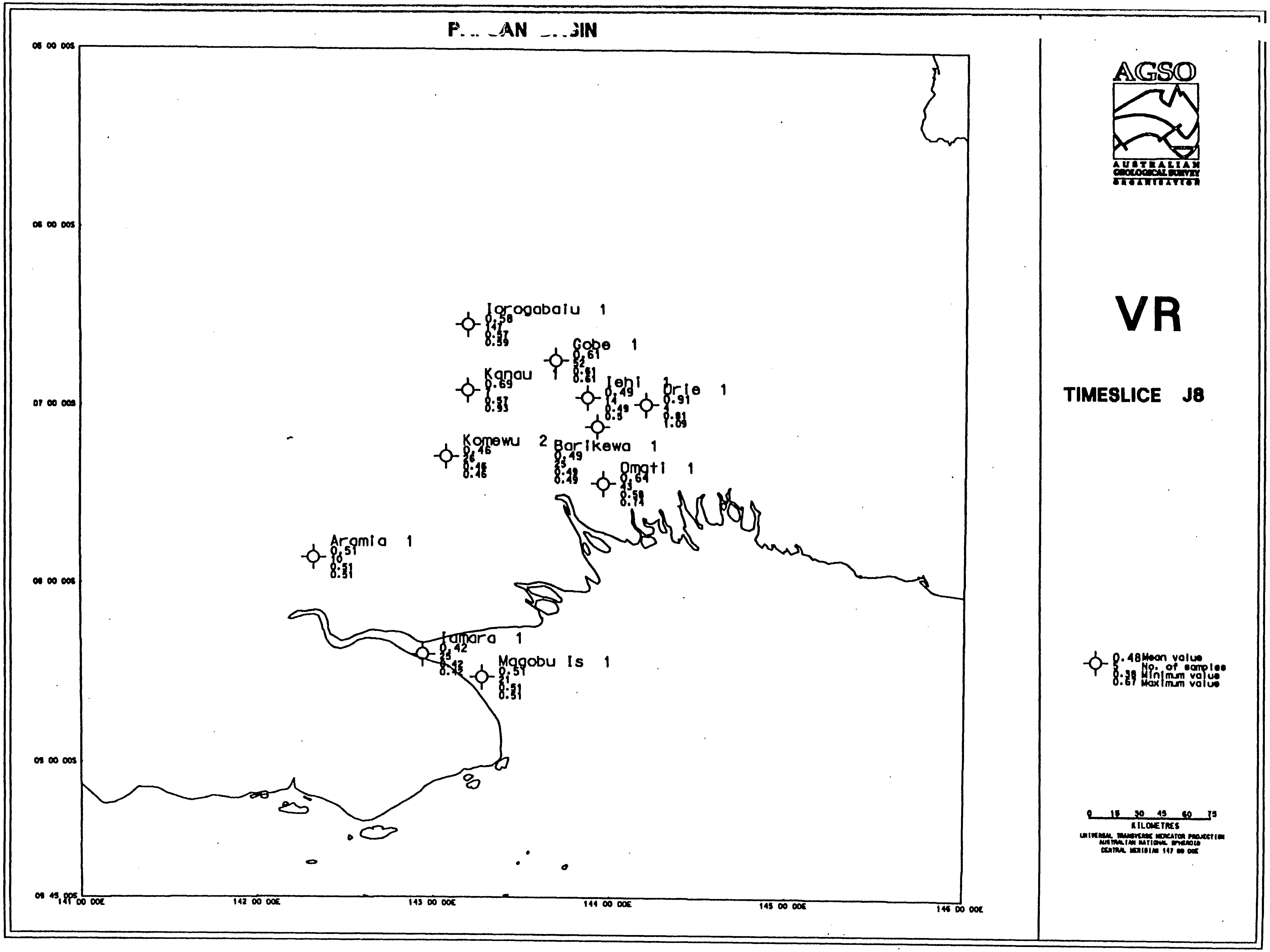
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

VR

TIMESLICE J7

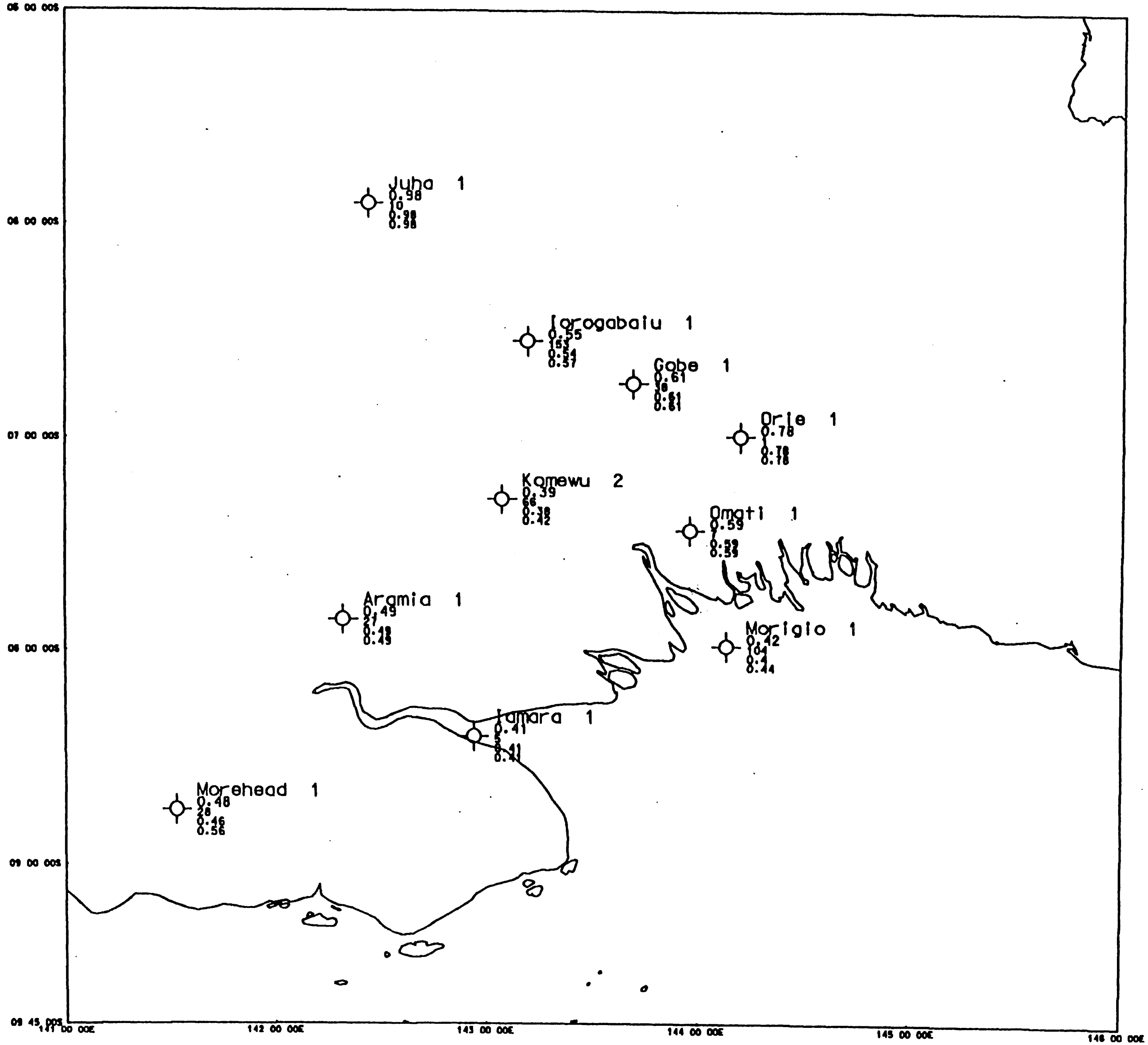
0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E



P.. .AN ..SIN
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
VR
TIMESLICE J8
06 00 00S
06 00 00S
07 00 00S
08 00 00S
09 00 00S
09 45 00S
141 00 00E
142 00 00E
143 00 00E
144 00 00E
145 00 00E
146 00 00E
Iorogabaiu 1
0.58
147
0.57
0.59
Gobe 1
0.61
52
0.61
0.61
Kanau
0.69
7
0.57
0.53
Iehi 1
0.49
14
0.49
0.5
Orie 1
0.91
4
0.81
1.09
Komewu 2
0.46
26
0.46
0.46
Barikewa 1
0.49
25
0.49
0.49
Omati 1
0.64
43
0.58
0.74
Aramia 1
0.51
10
0.51
0.51
Tamara 1
0.42
25
0.42
0.42
Magobu Is 1
0.51
21
0.51
0.51
0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value
0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



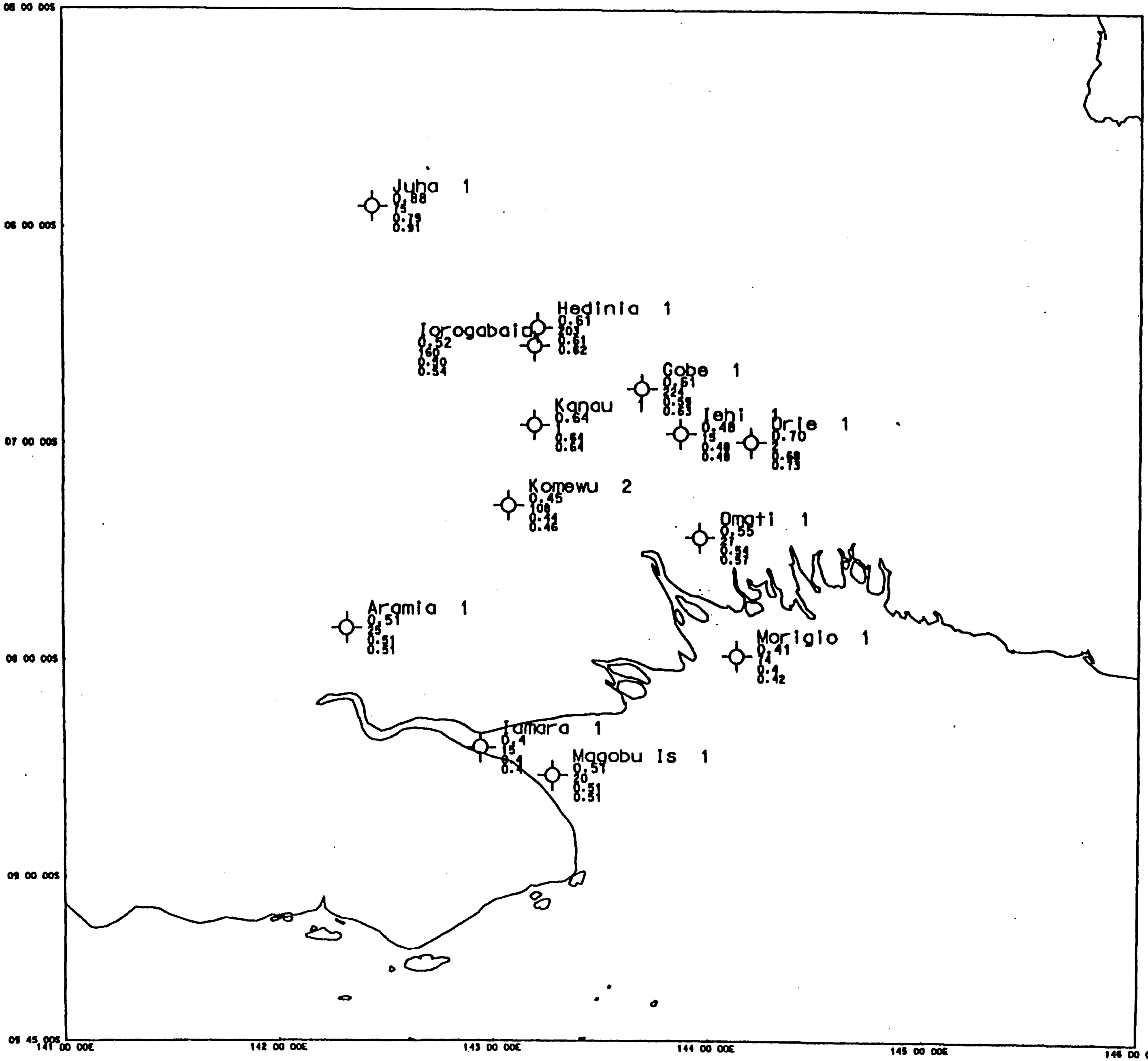
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

VR

TIMESLICE J9

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

VR

TIMESLICE J10

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

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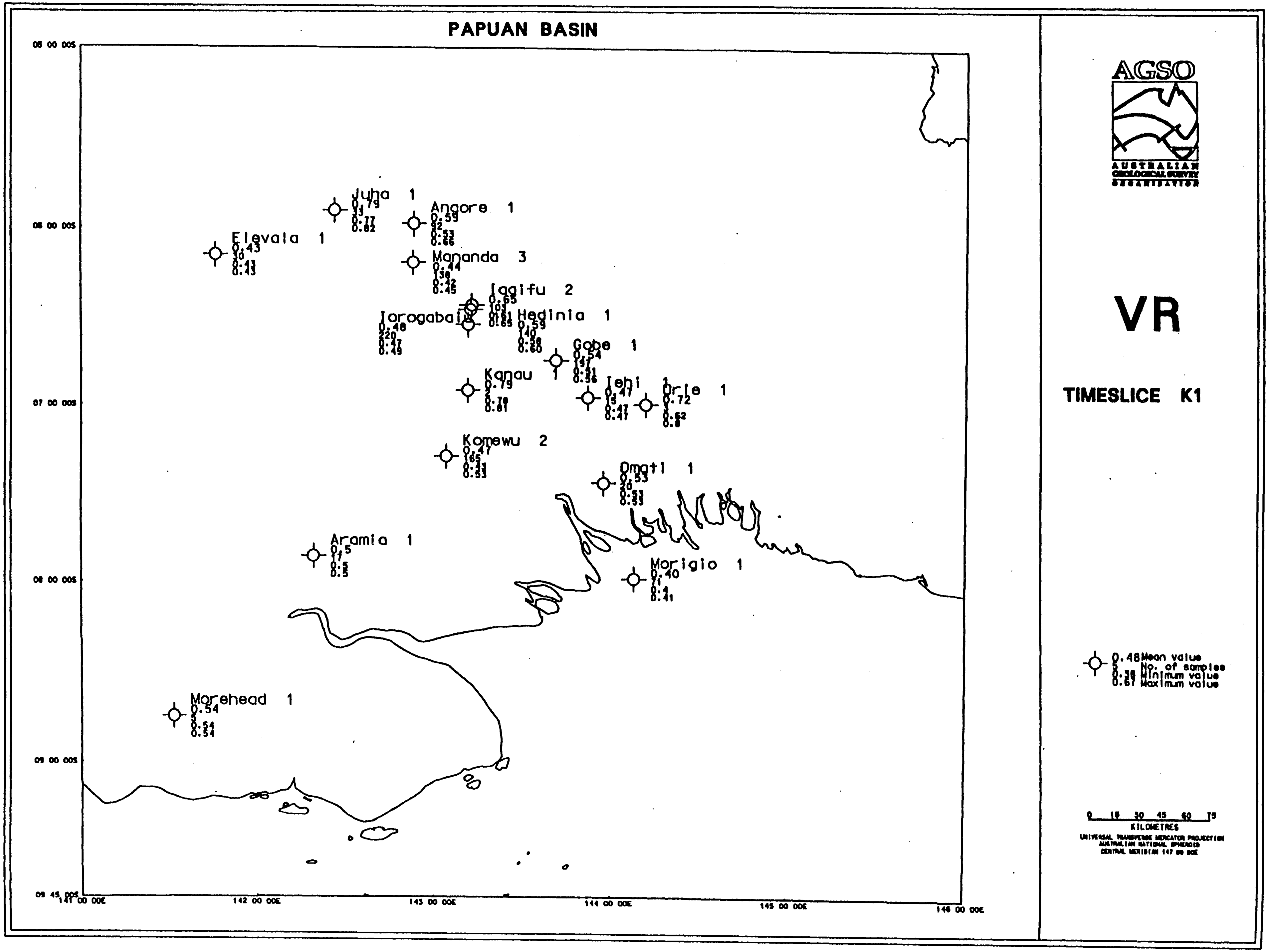
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E



PAPUAN BASIN
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
VR
TIMESLICE K1
Juha 1
0.79
Angore 1
0.59
92
0.53
0.66
Elevala 1
0.43
30
0.43
0.43
Mananda 3
0.44
0.45
Iagifu 2
0.65
Iorogaba
0.48
220
0.47
0.49
Hedinia 1
0.59
0.60
Gobe 1
0.54
0.56
Kanau
0.79
0.81
Iehi 1
0.47
0.47
0.47
Orie 1
0.72
0.8
Komewu 2
0.47
0.53
Omati 1
0.53
26
0.53
Aramia 1
0.5
0.5
0.5
Morigio 1
0.40
0.41
Morehead 1
0.54
0.54
0.54
0.48 Mean value
No. of samples
Minimum value
0.67 Maximum value
0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E
06 00 00S
07 00 00S
08 00 00S
09 00 00S
09 45 00S
141 00 00E
142 00 00E
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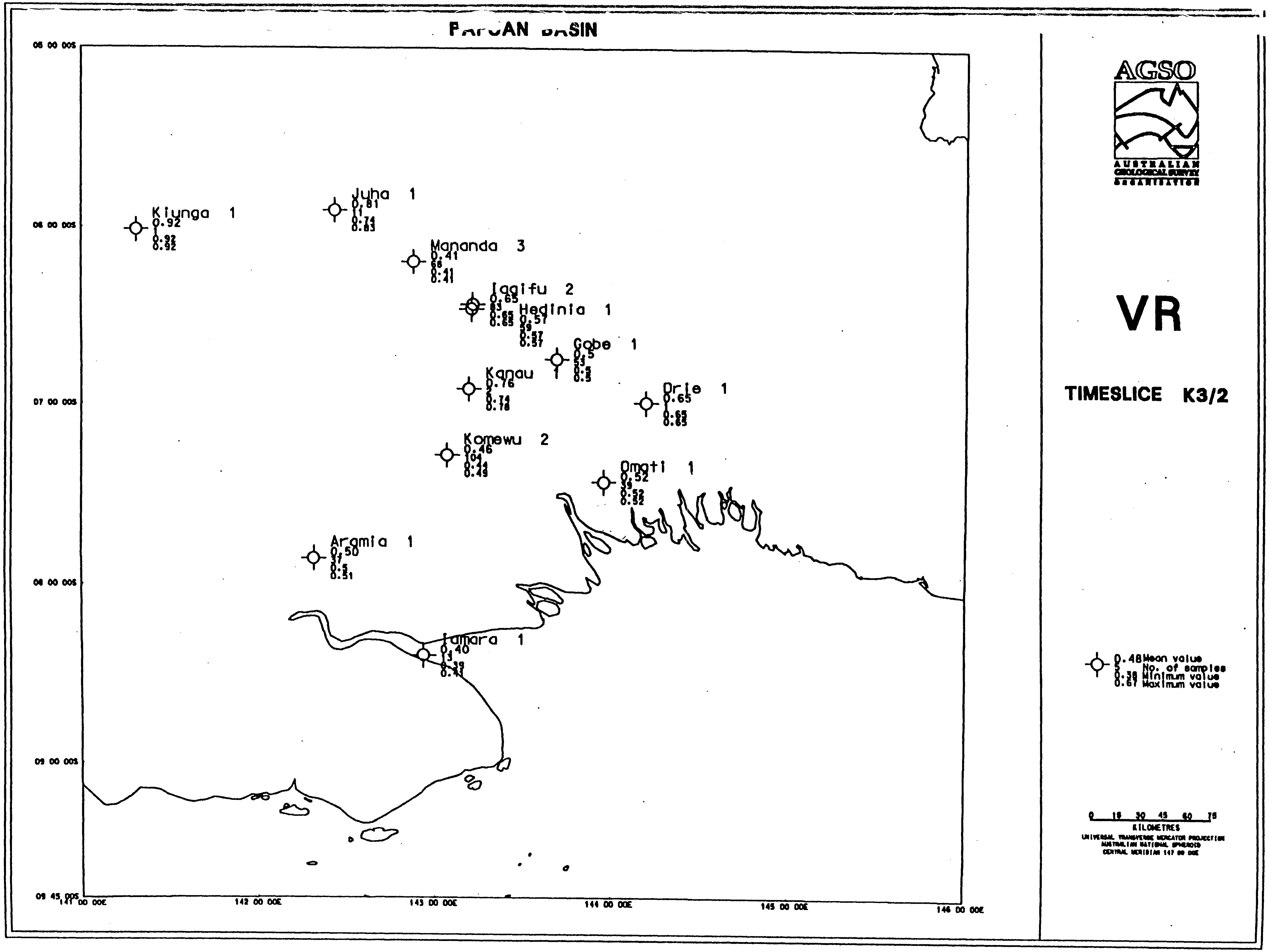
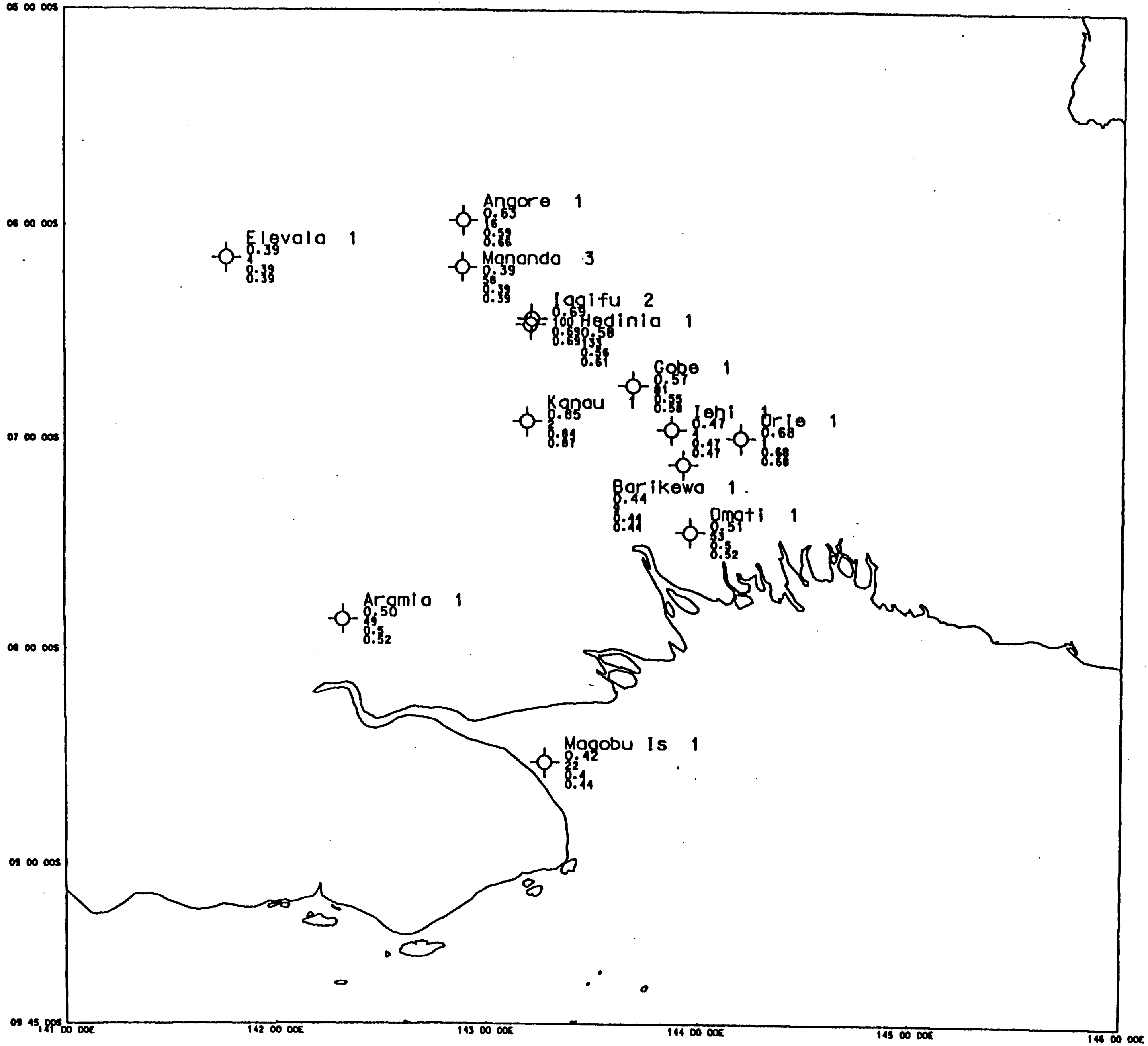
145 00 00E
146 00 00E



PAPUAN BASIN
Kiunga 1
0.92
Juha 1
0.81
Mananda 3
0.41
Iagifu 2
0.65
Hedinia 1
0.57
Gobe 1
0.5
Kanau 1
0.76
Orie 1
0.65
Komewu 2
0.46
Omati 1
0.52
Aramia 1
0.50
Tamara 1
0.40
06 00 00S
07 00 00S
08 00 00S
09 00 00S
09 45 00S
141 00 00E
142 00 00E
143 00 00E
144 00 00E
145 00 00E
146 00 00E
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
VR
TIMESLICE K3/2
0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value
0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

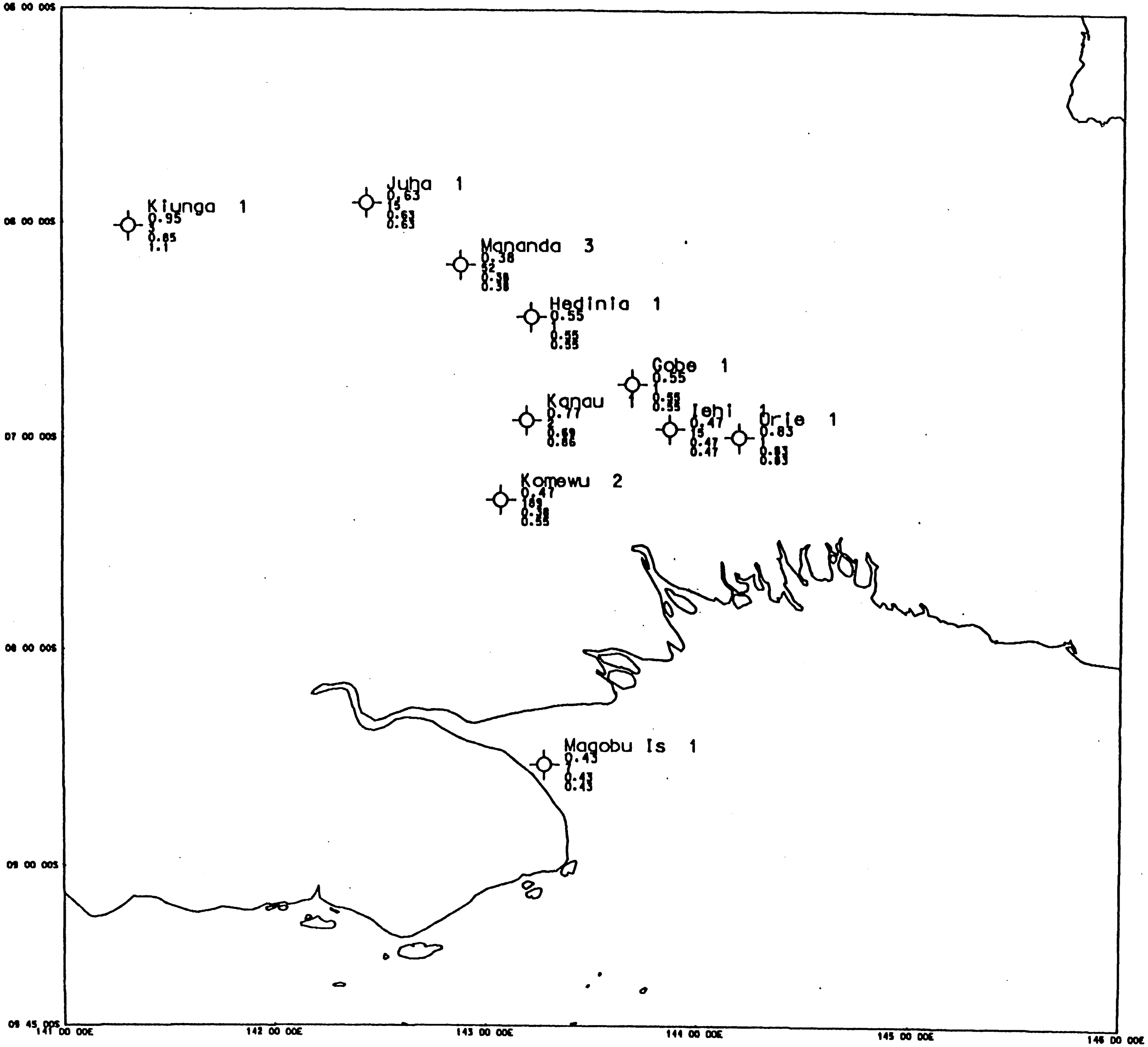
VR

TIMESLICE K4

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

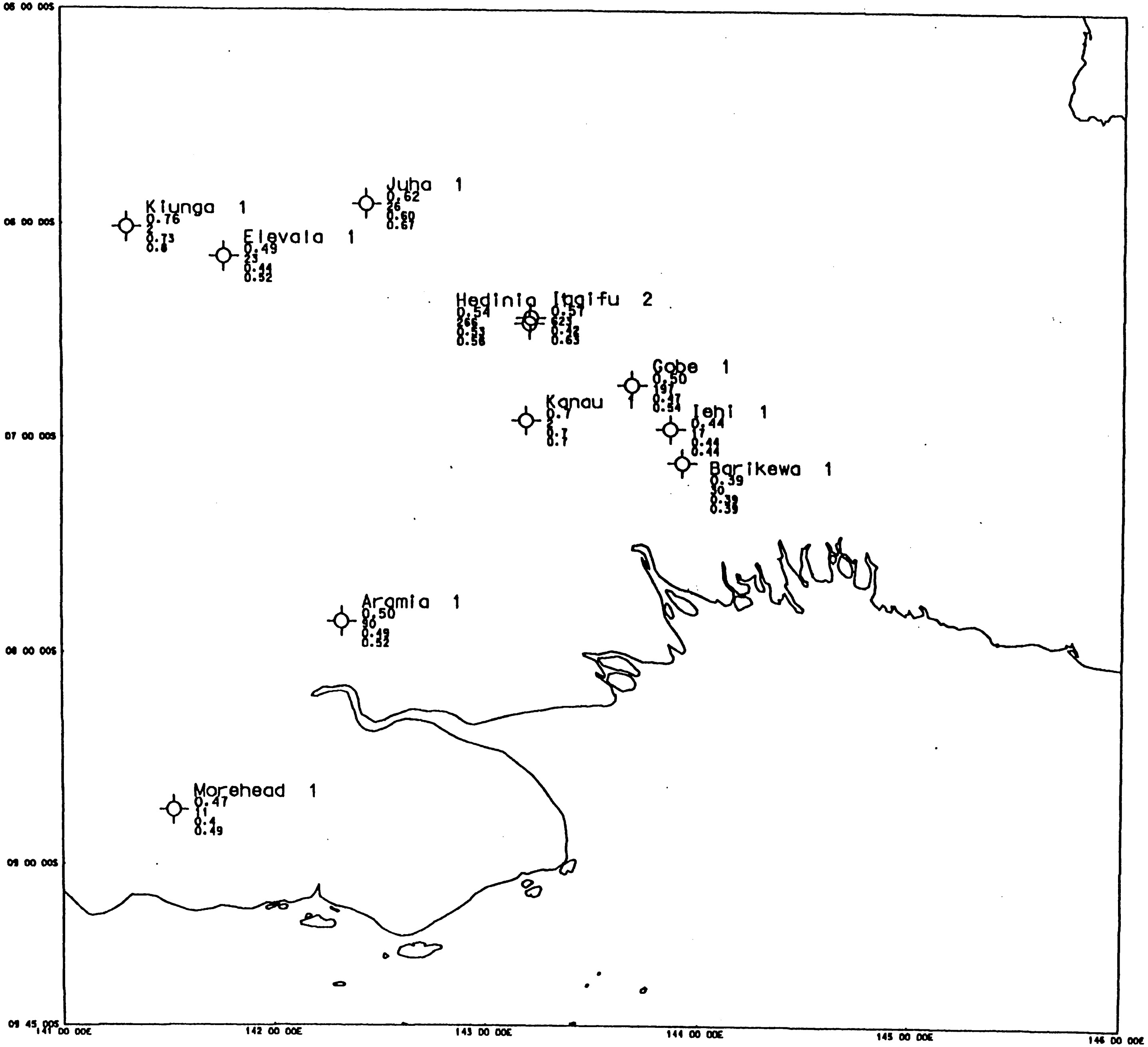
VR

TIMESLICE K5-K8L

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

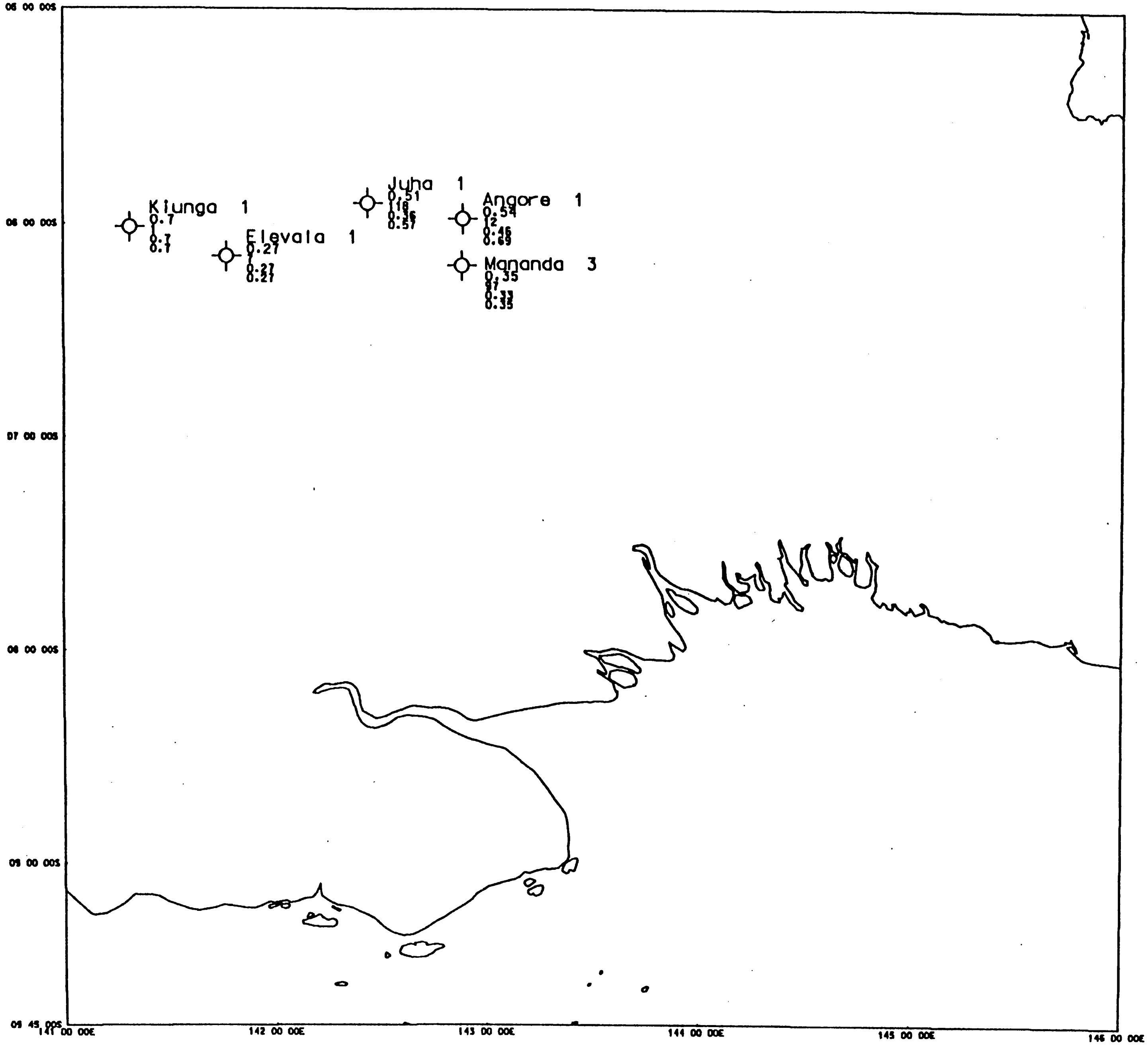
VR

TIMESLICE K8u

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

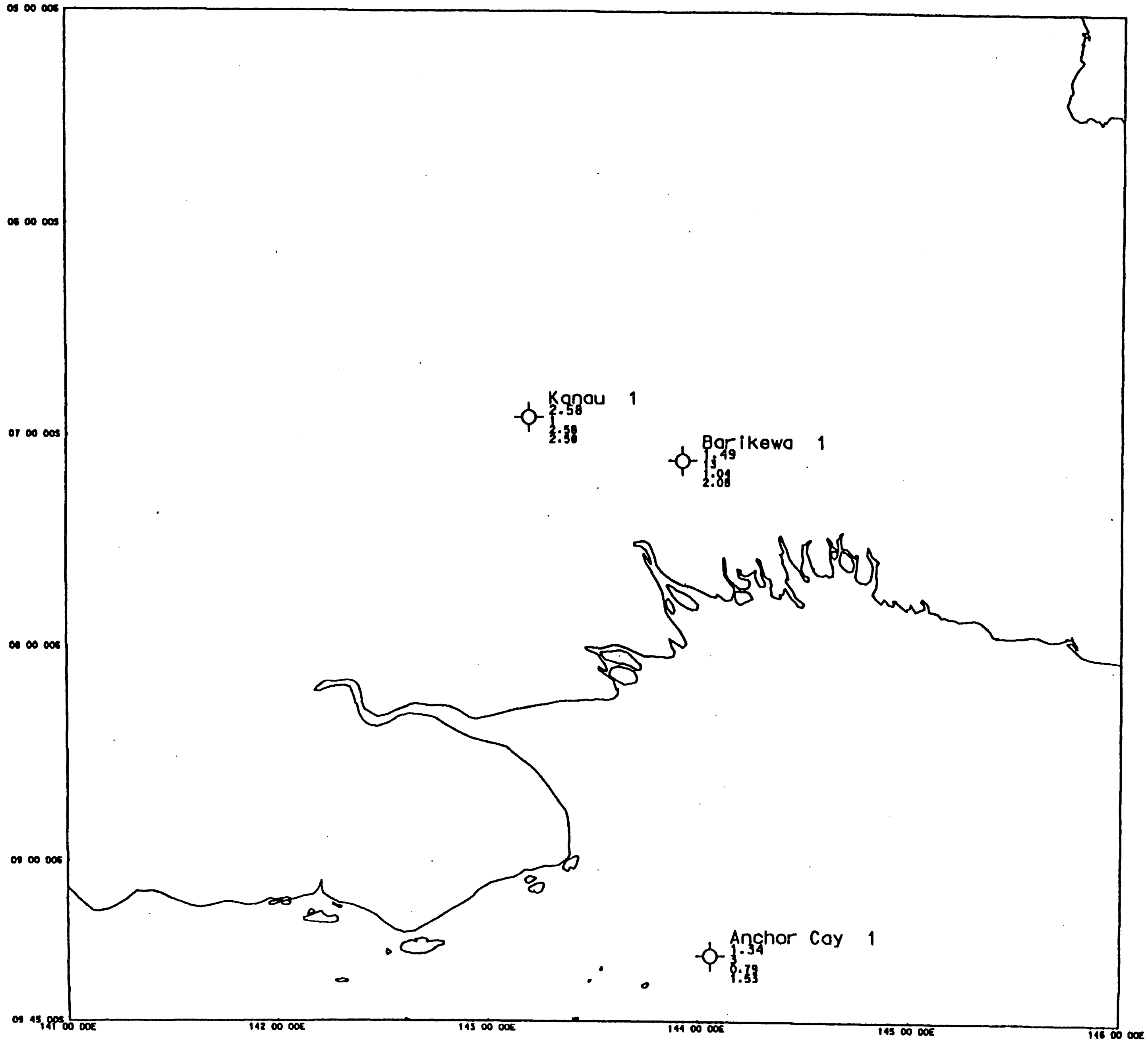
VR

TIMESLICE K9

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



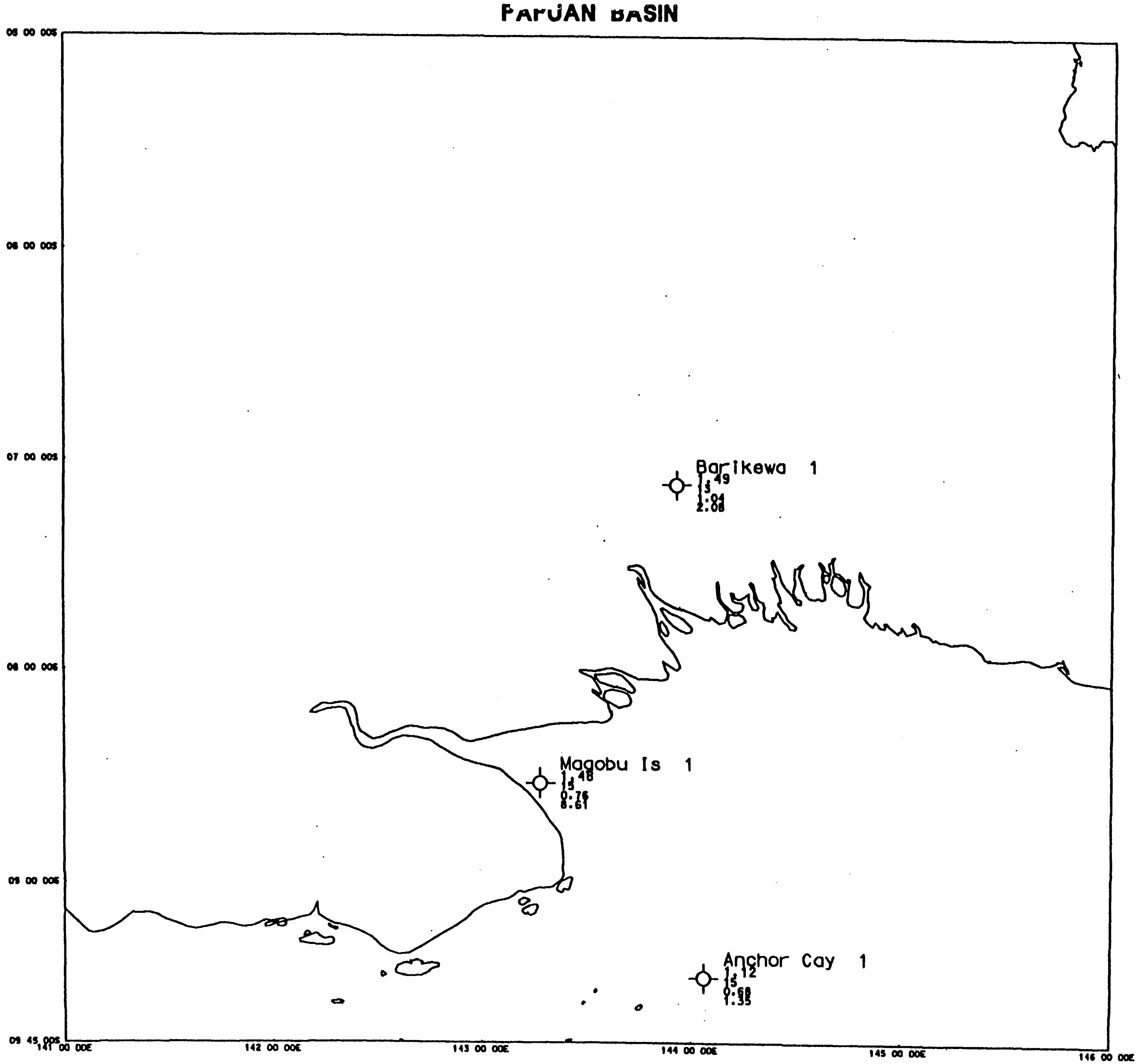
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

TOC

TIMESLICE Tr

0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

TOC

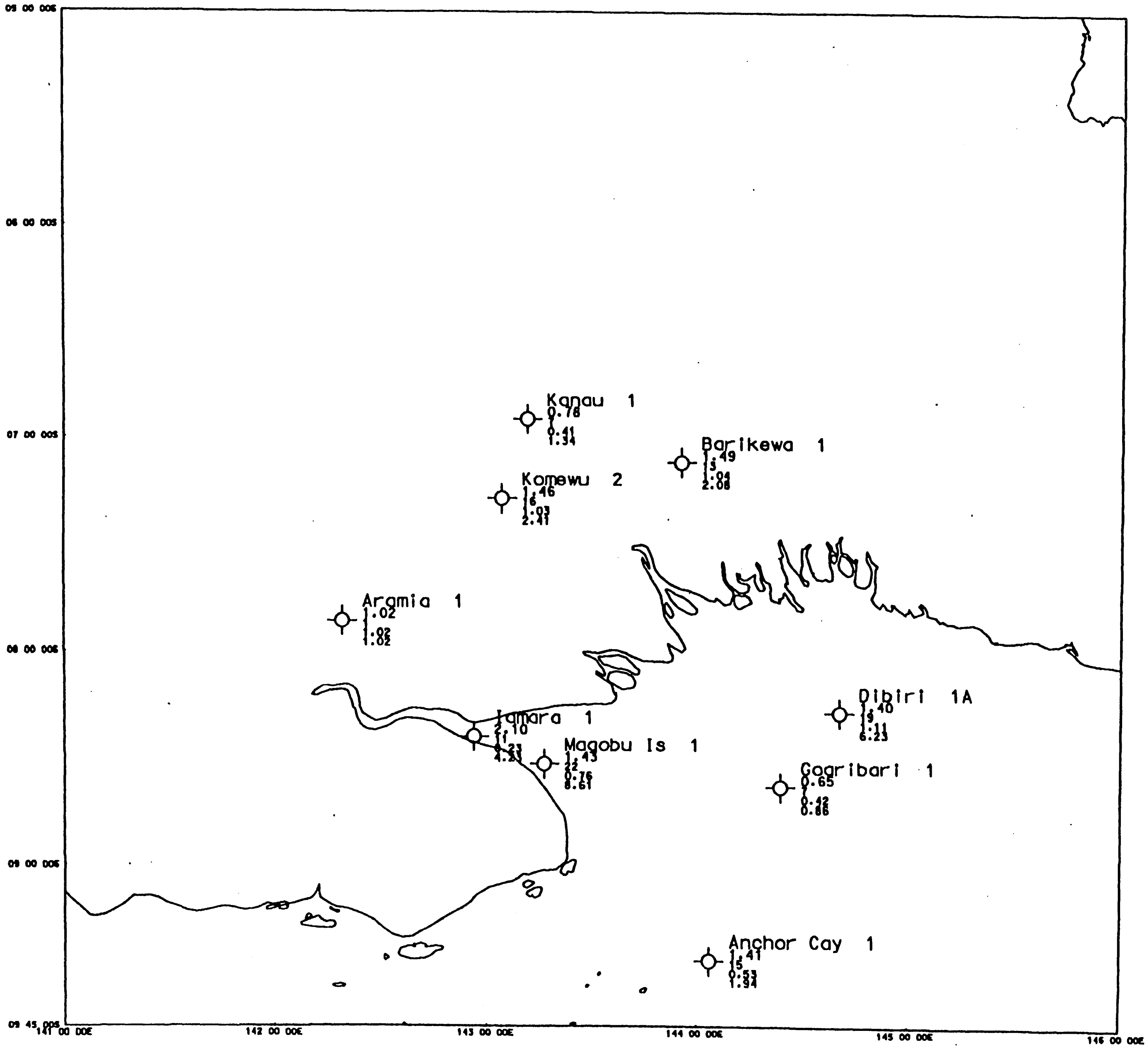
TIMESLICE J1-4

0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 141 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

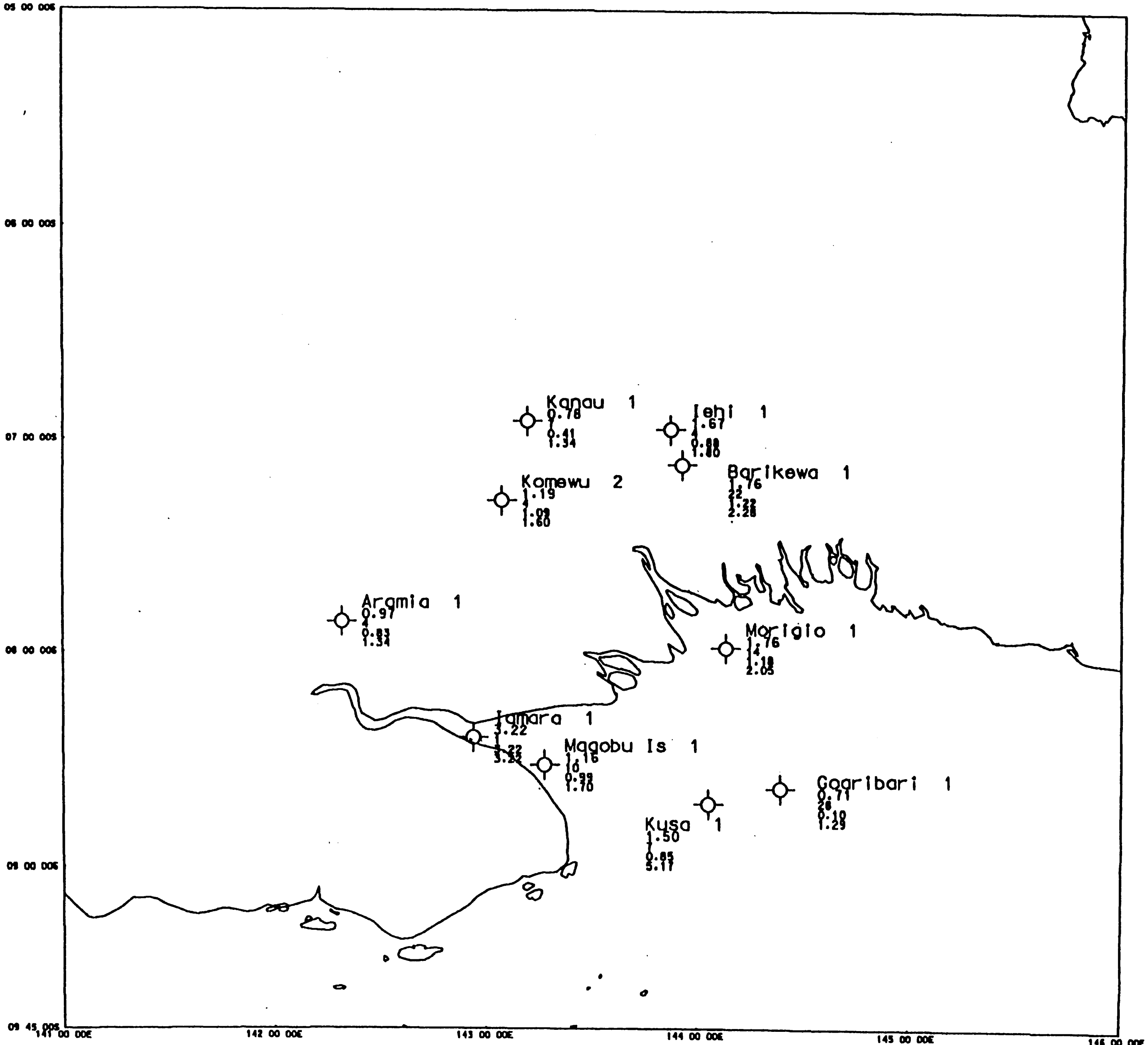
TOC

TIMESLICE J6/5

0.48 Median value
3 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 141 00 00E

PAPUAN BASIN



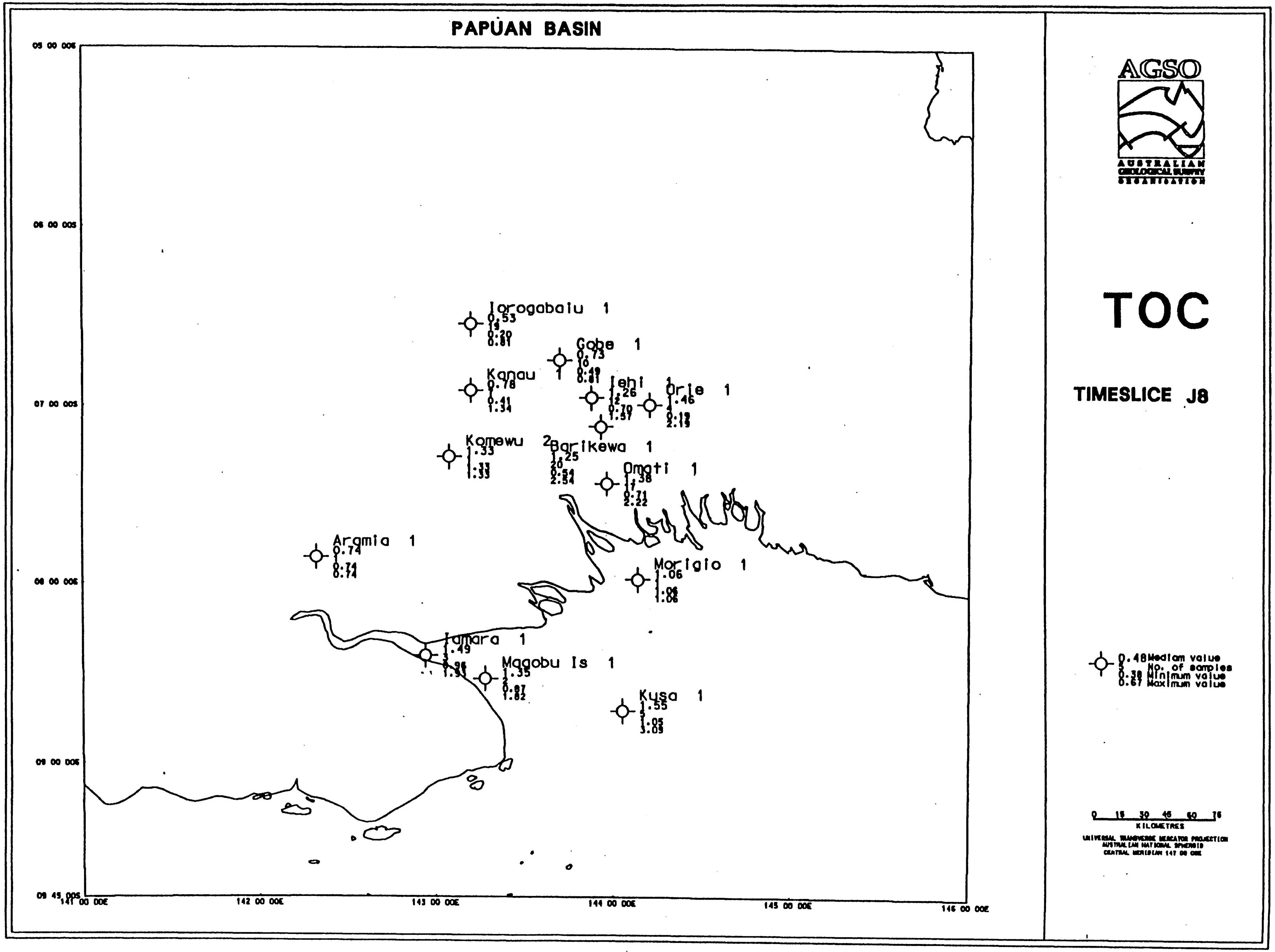
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

TOC

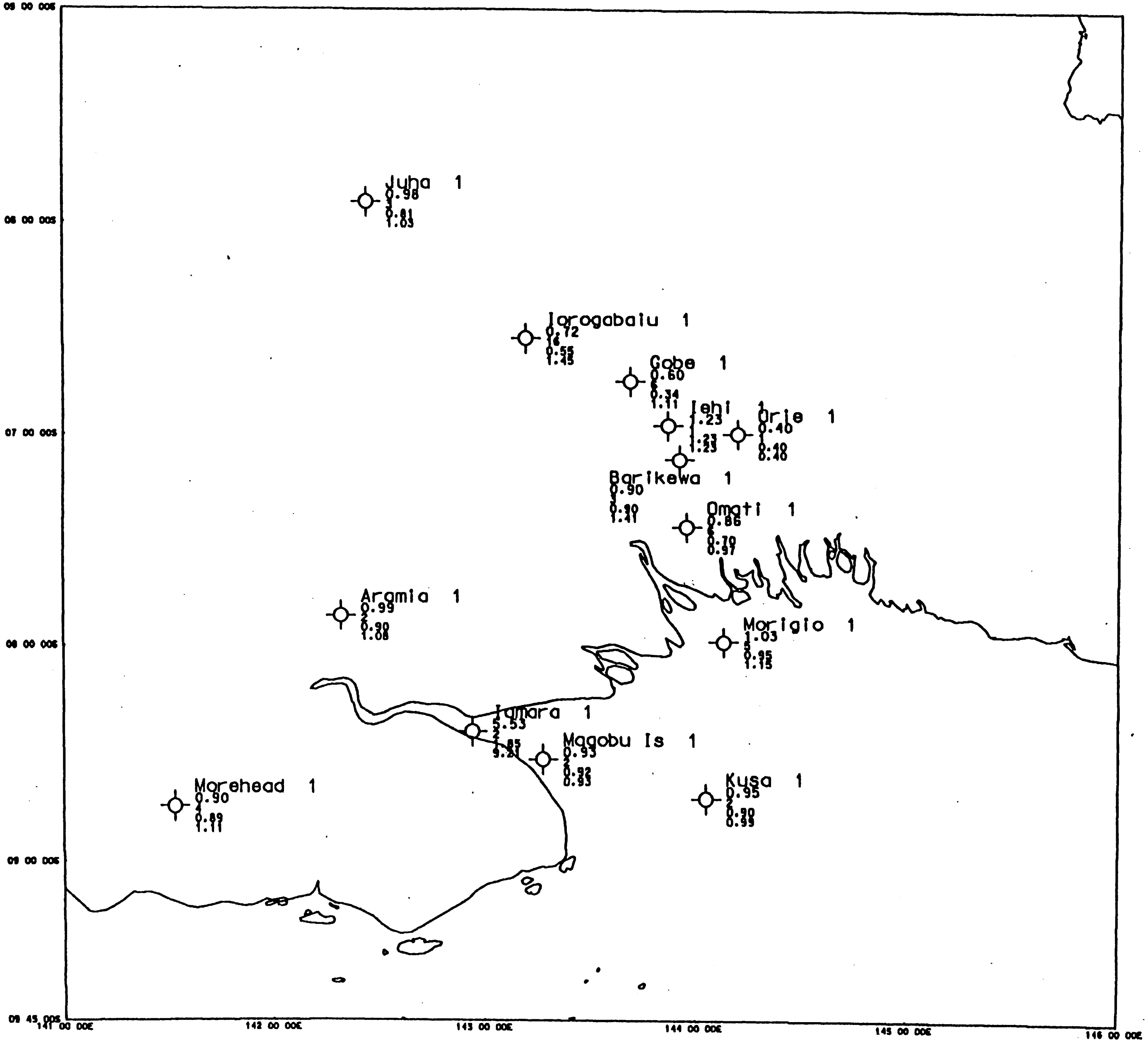
TIMESLICE J7

0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E


PAPUAN BASIN
05 00 00S
06 00 00S
07 00 00S
08 00 00S
09 00 00S
09 45 00S
141 00 00E
142 00 00E
143 00 00E
144 00 00E
145 00 00E
146 00 00E
Iorogabaiu 1
0.53
19
0.20
0.81
Gobe 1
0.73
10
0.49
0.81
Kanau 1
0.78
0.41
1.34
Iehi 1
1.26
12
0.70
1.57
Orie 1
1.46
4
0.12
2.19
Komewu 2
1.33
1.33
1.33
Barikewa 1
1.25
20
0.54
2.54
Omati 1
1.38
17
0.71
2.22
Aramia 1
0.74
0.74
0.74
Morigio 1
1.06
1.06
1.06
Tamara 1
1.49
3
0.96
1.91
Magobu Is 1
1.35
2
0.87
1.82
Kusa 1
1.55
5
1.05
3.09
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
TOC
TIMESLICE J8
0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value
0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



TOC

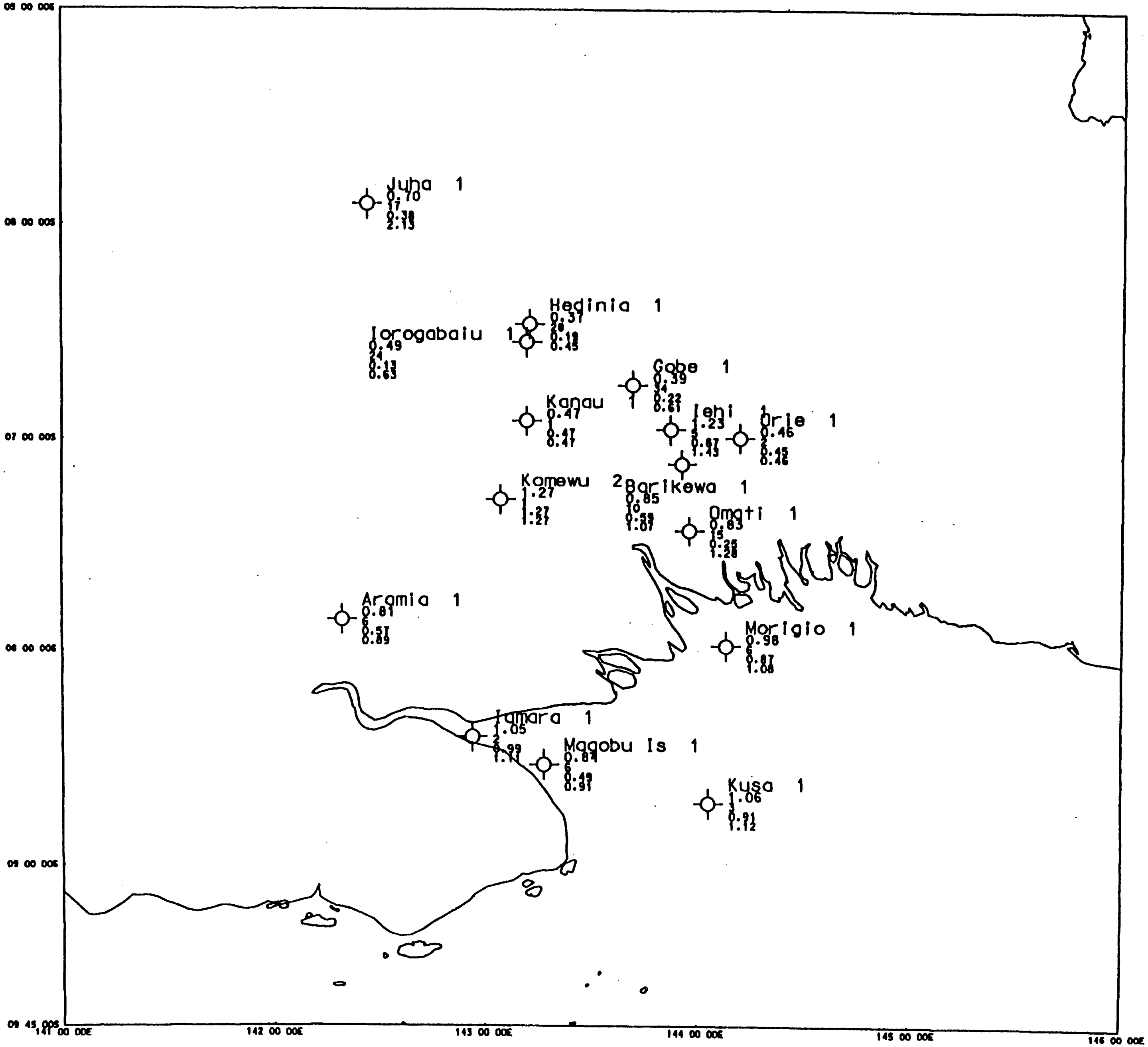
TIMESLICE J9

0.46 Median value
3 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

TOC

TIMESLICE J10

0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

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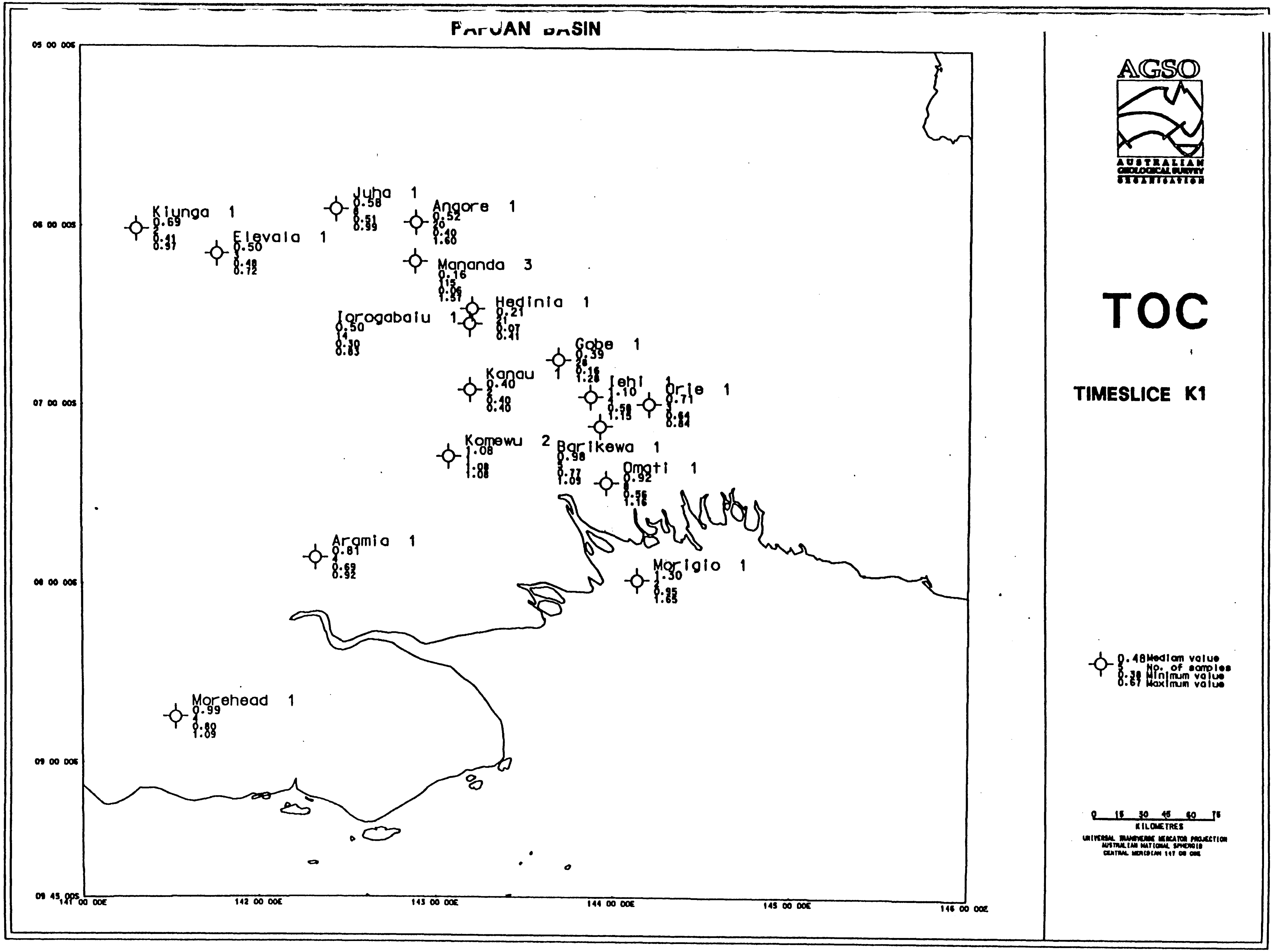
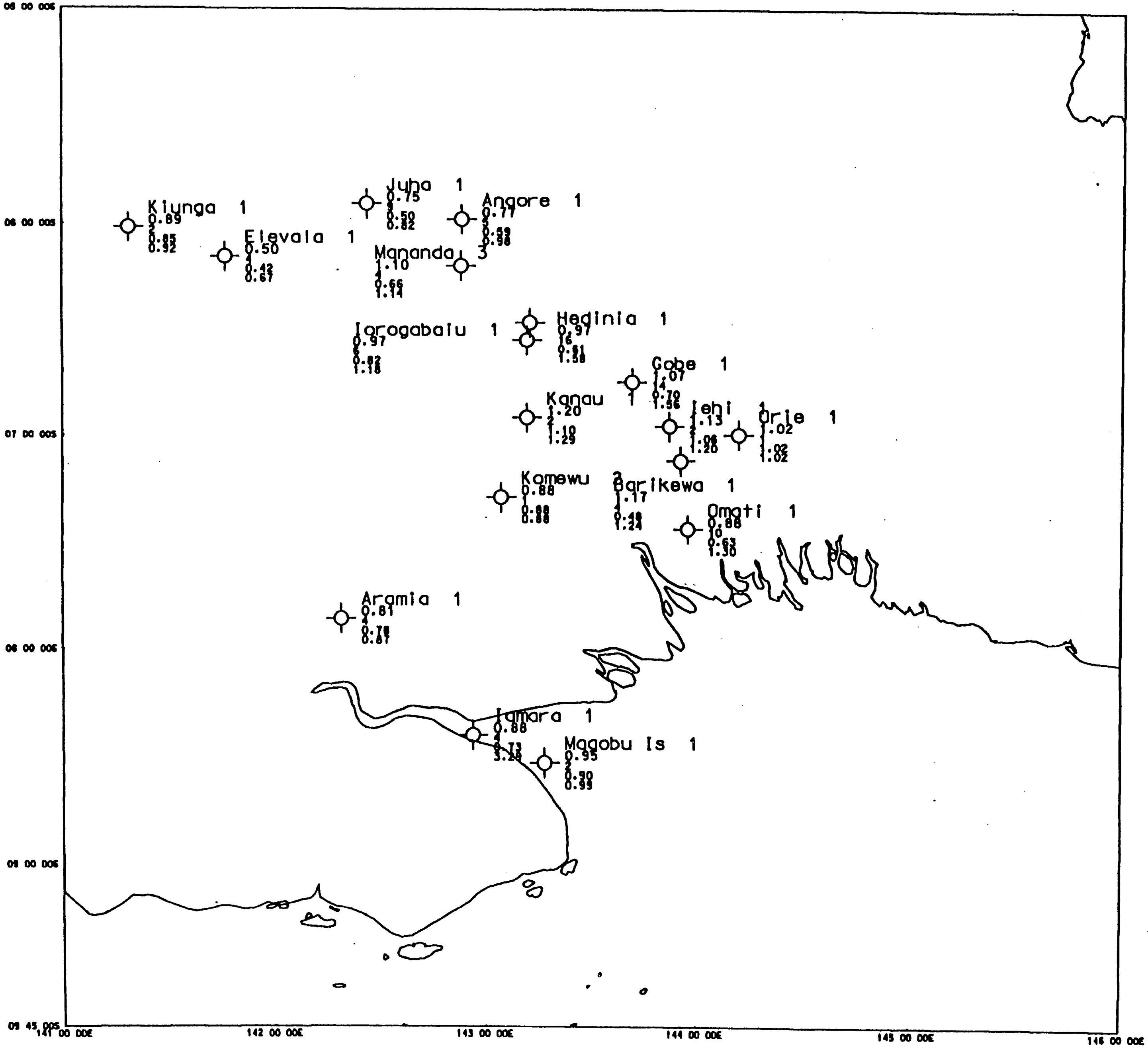
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E



PAPUAN BASIN
TOC
TIMESLICE K1
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
Kiunga 1
0.69
2
0.41
0.97
Juha 1
0.58
0.51
0.99
Angore 1
0.52
20
0.40
1.60
Elevala 1
0.50
3
0.48
0.72
Mananda 3
0.16
115
0.06
1.57
Hedinia 1
0.21
21
0.07
0.41
Iorogabaiu 1
0.50
14
0.30
0.83
Gobe 1
0.39
26
0.16
1.28
Kanau 1
0.40
2
0.40
0.40
Iehi 1
1.10
4
0.59
1.15
Orie 1
0.71
3
0.64
0.84
Komewu 2
1.08
1
1.08
1.08
Barikewa 1
0.98
5
0.77
1.09
Omati 1
0.92
0.56
1.16
Aramia 1
0.81
4
0.69
0.92
Morigio 1
1.30
2
0.95
1.65
Morehead 1
0.99
4
0.80
1.09
0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value
0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 141 00 00E
05 00 00S
06 00 00S
07 00 00S
08 00 00S
09 00 00S
09 45 00S
141 00 00E
142 00 00E
143 00 00E
144 00 00E
145 00 00E
146 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

TOC

TIMESLICE K3/2

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5 No. of samples
0.38 Minimum value
0.67 Maximum value

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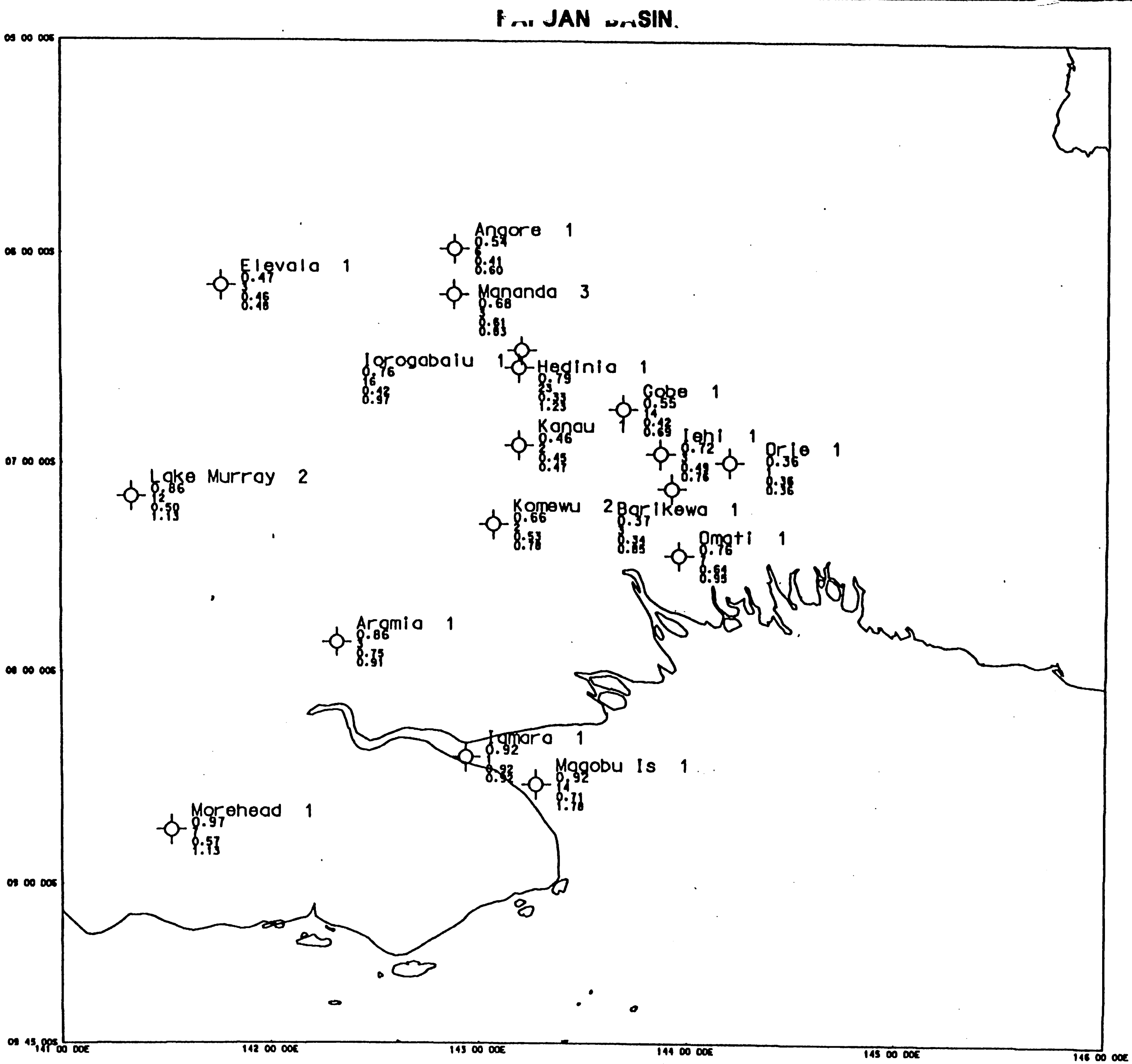
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E



AGSO

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

TOC

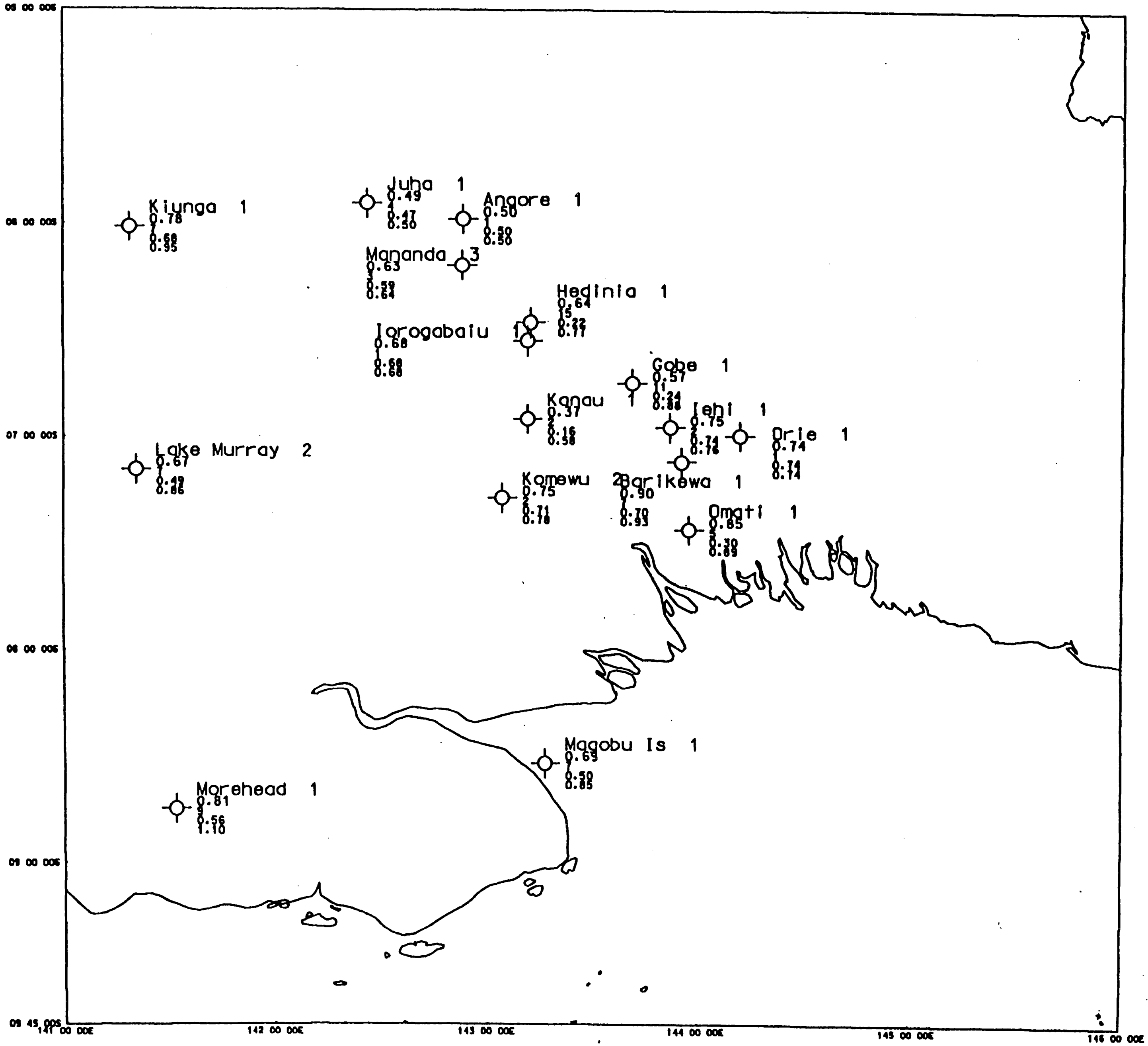
TIMESLICE K4

0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 141 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

TOC

TIMESLICE K5–K8L

0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

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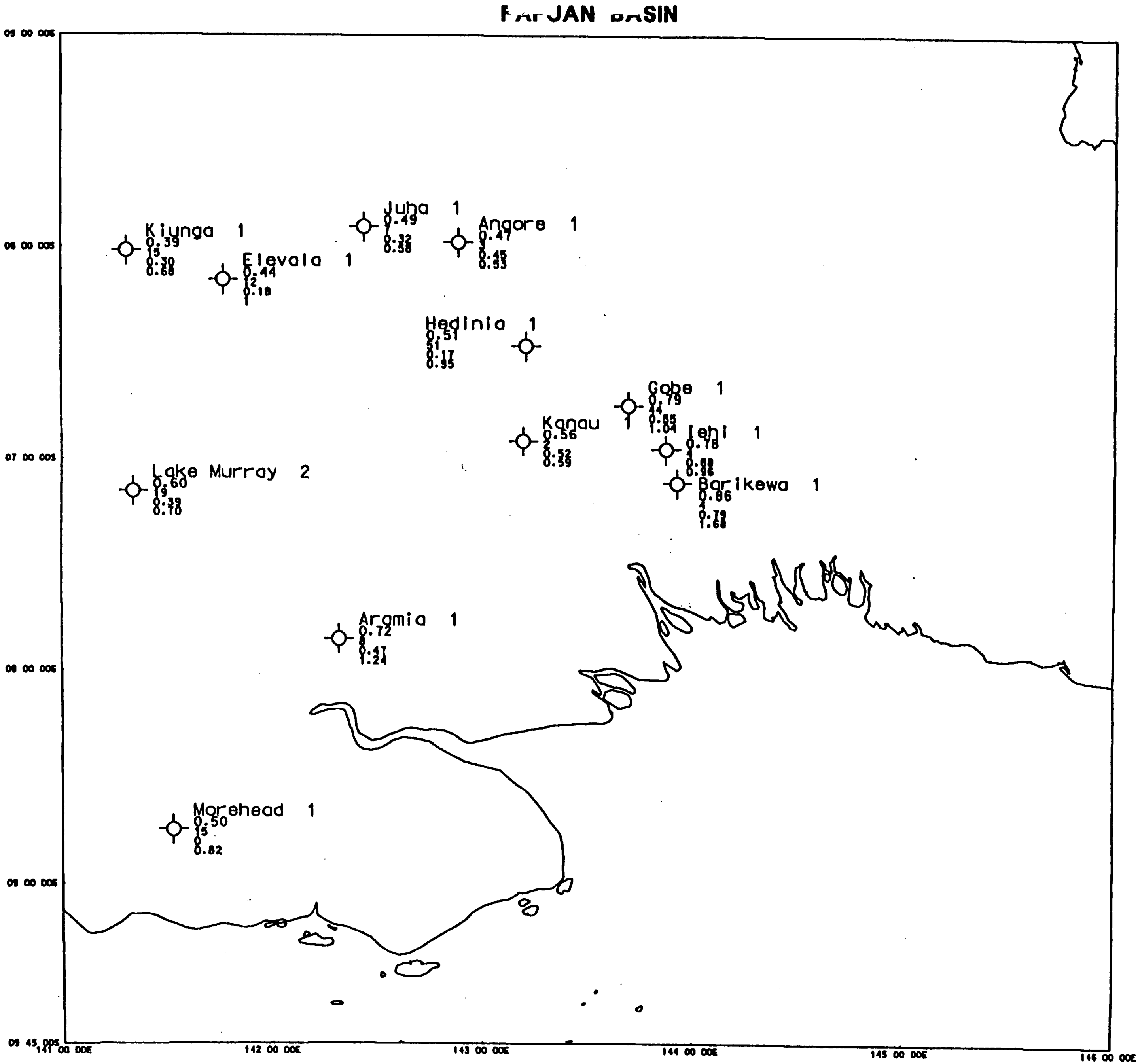
KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E



AGSO

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

TOC

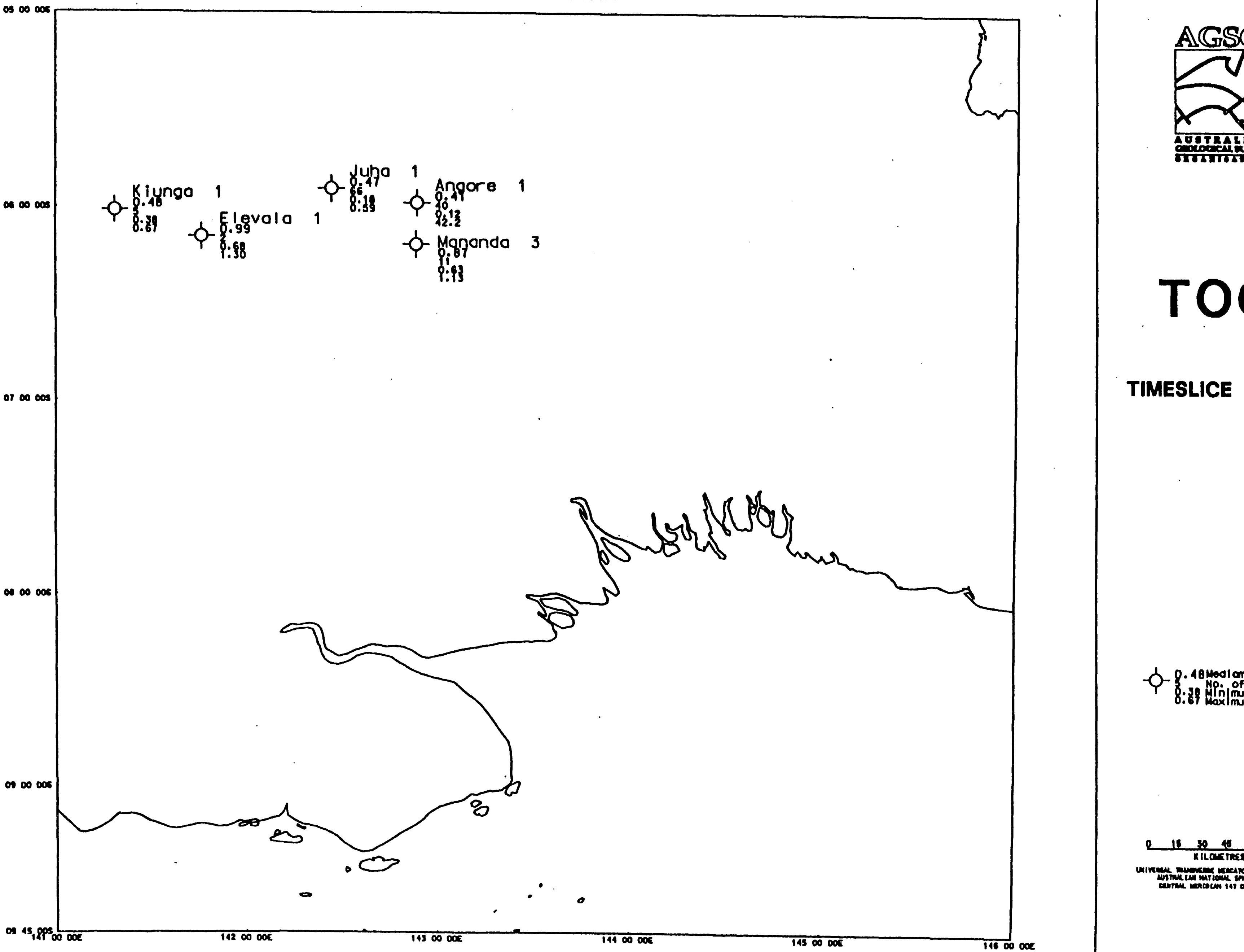
TIMESLICE K8u

0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 141 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

TOC

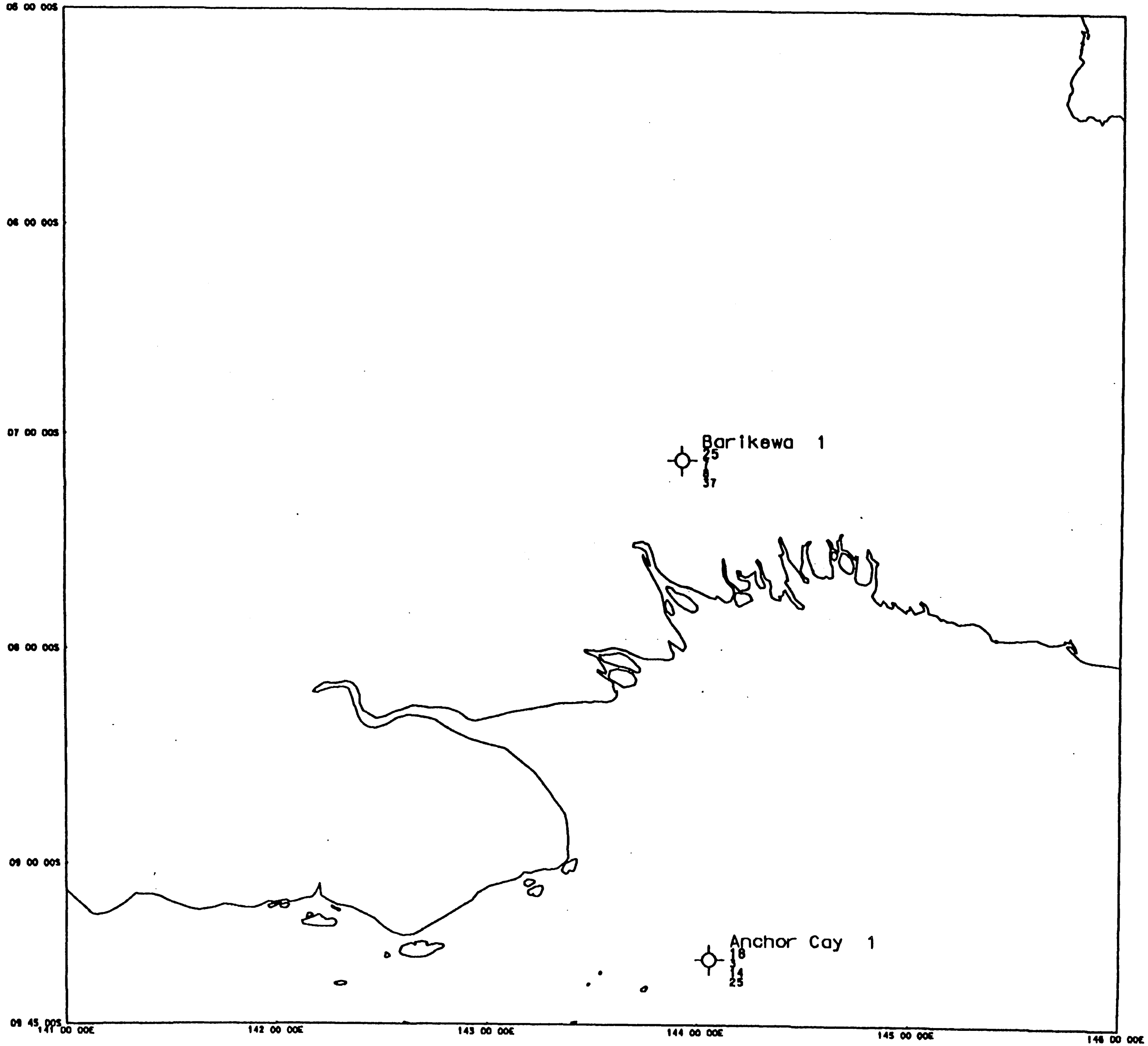
TIMESLICE K9

0.48 Median value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

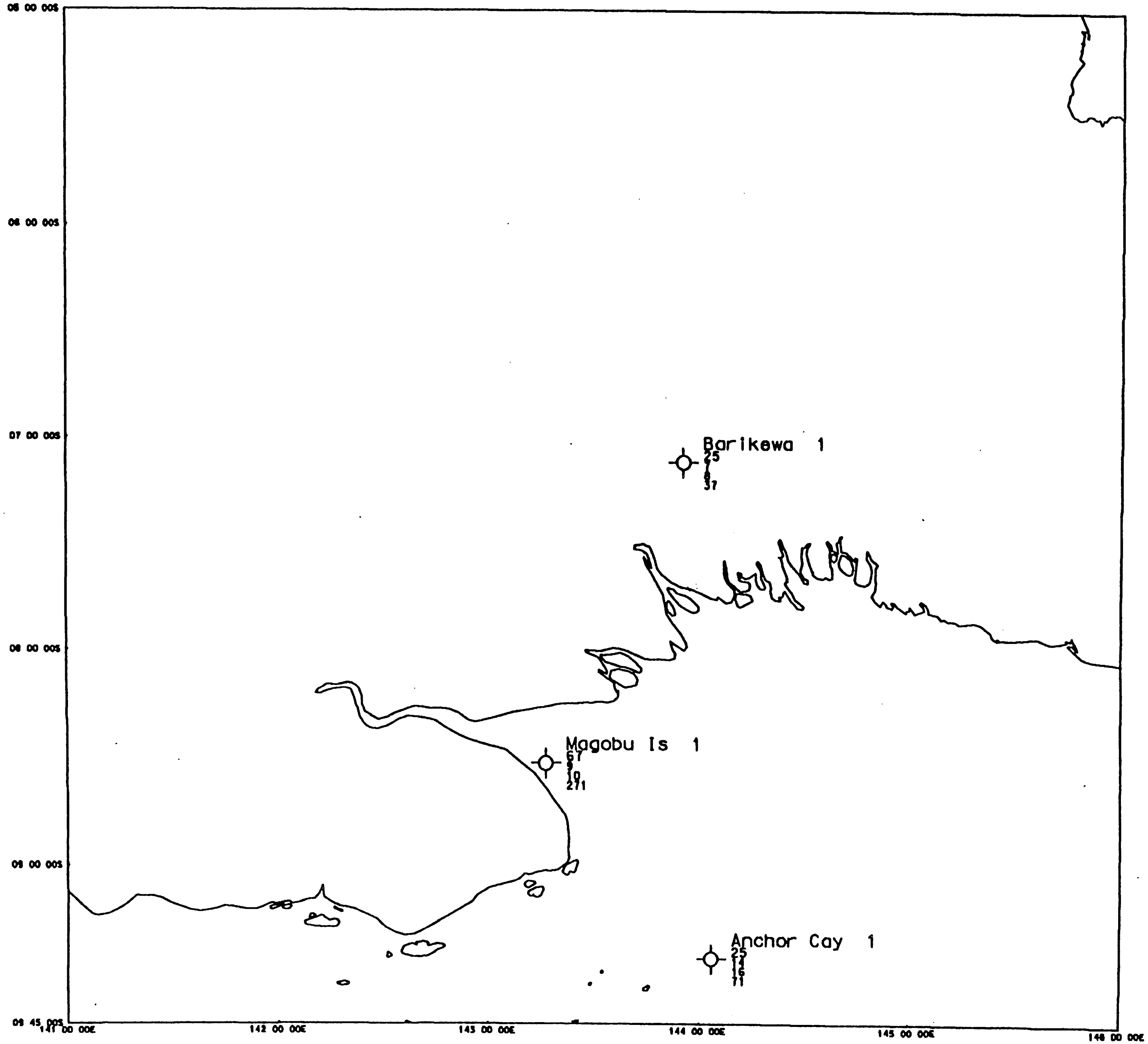
HI

TIMESLICE Tr

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

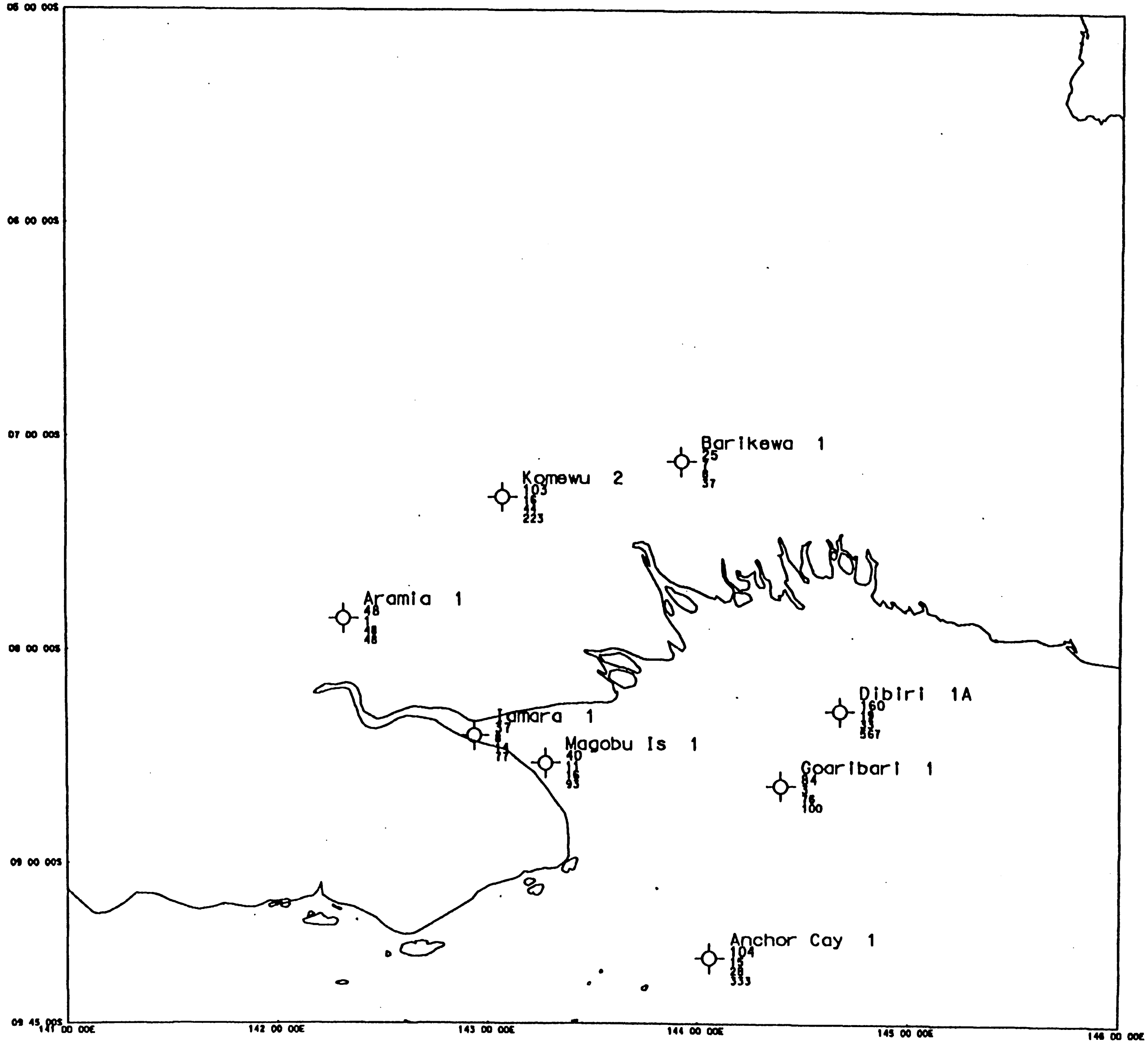
HI

TIMESLICE J1–4

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

I A, JAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

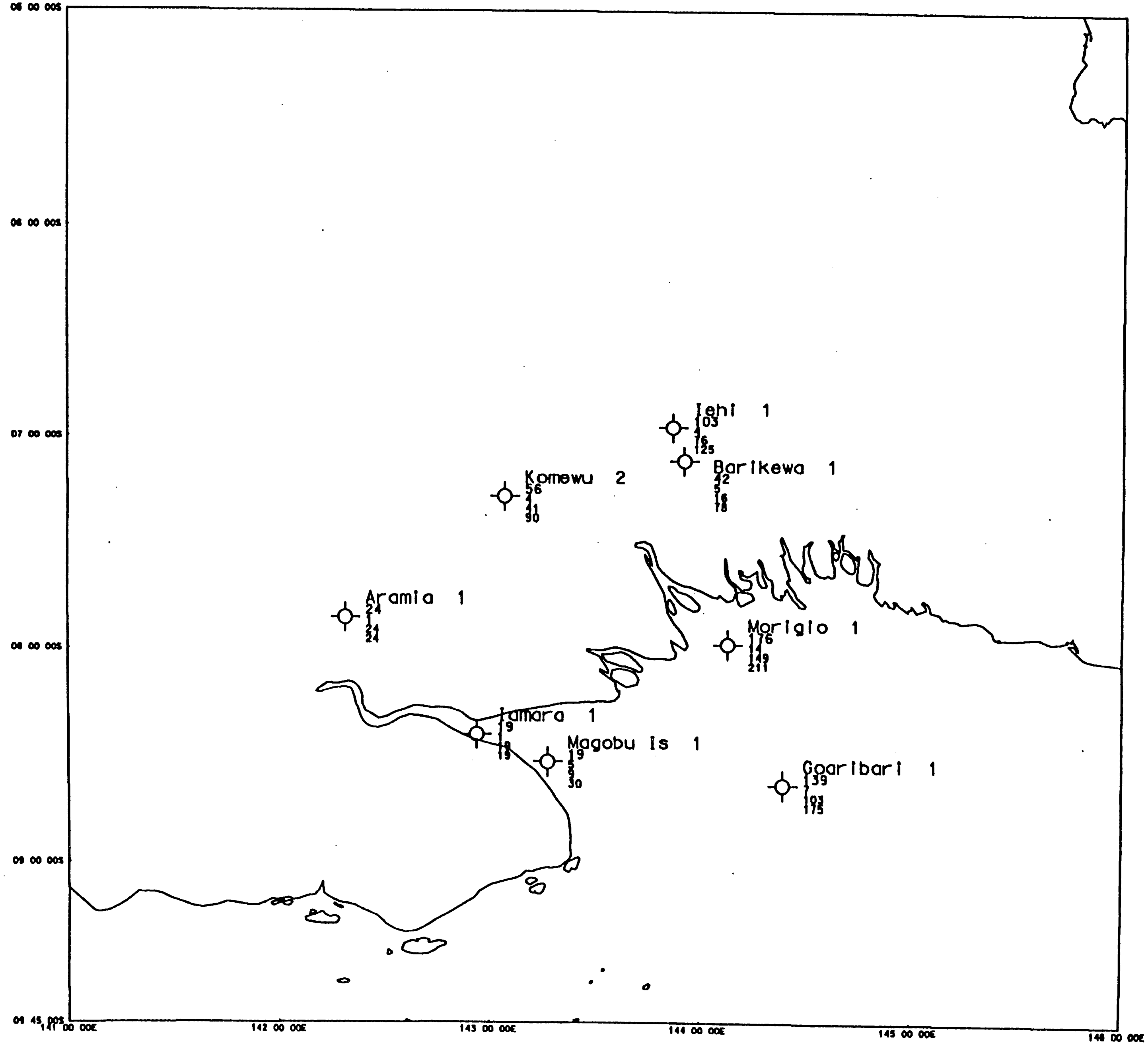
HI

TIMESLICE J6/5

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

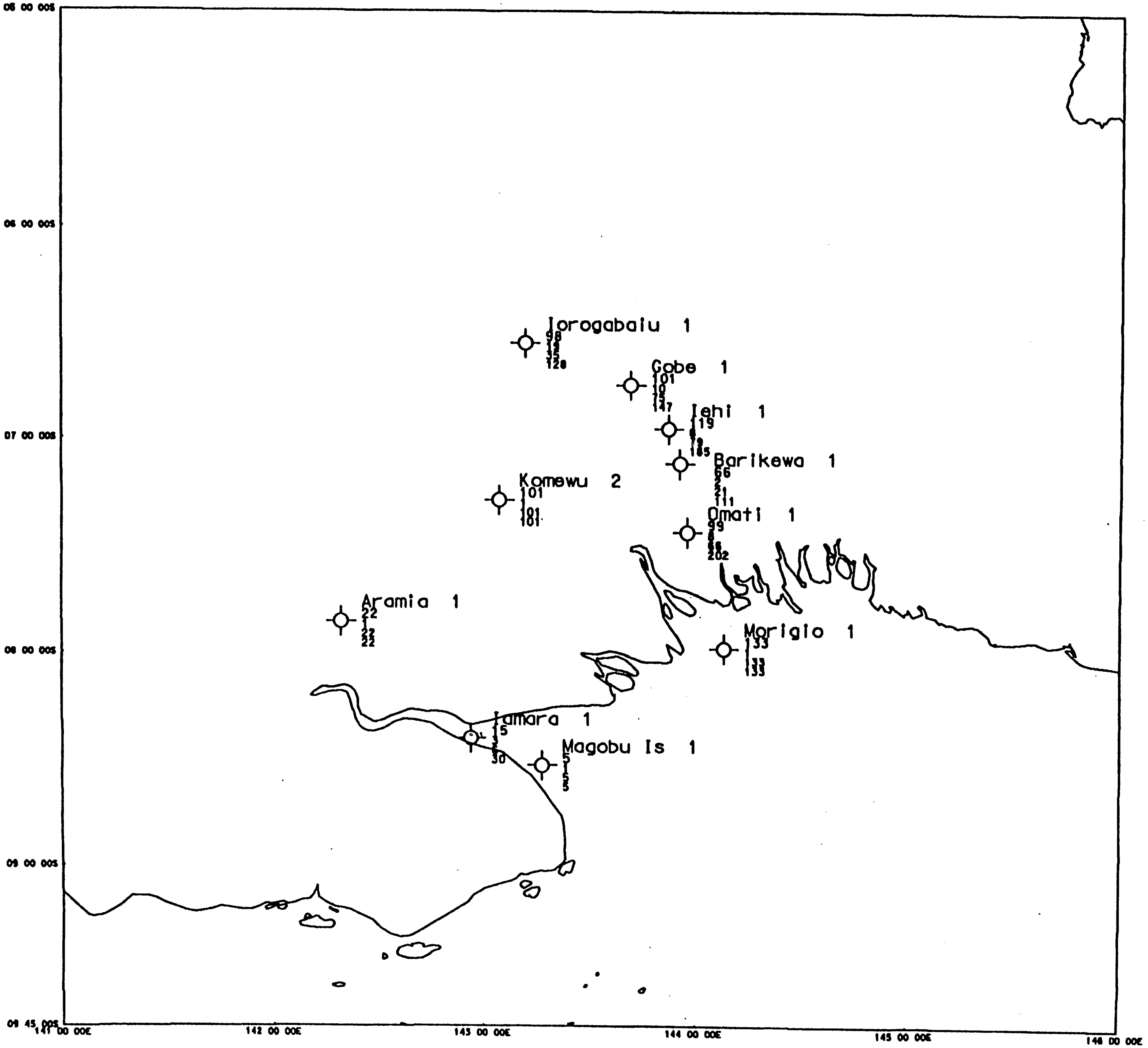
HI

TIMESLICE J7

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.61 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 141 00 00E

I.. JAN .ASIN



AGSO

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

HI

TIMESLICE J8

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

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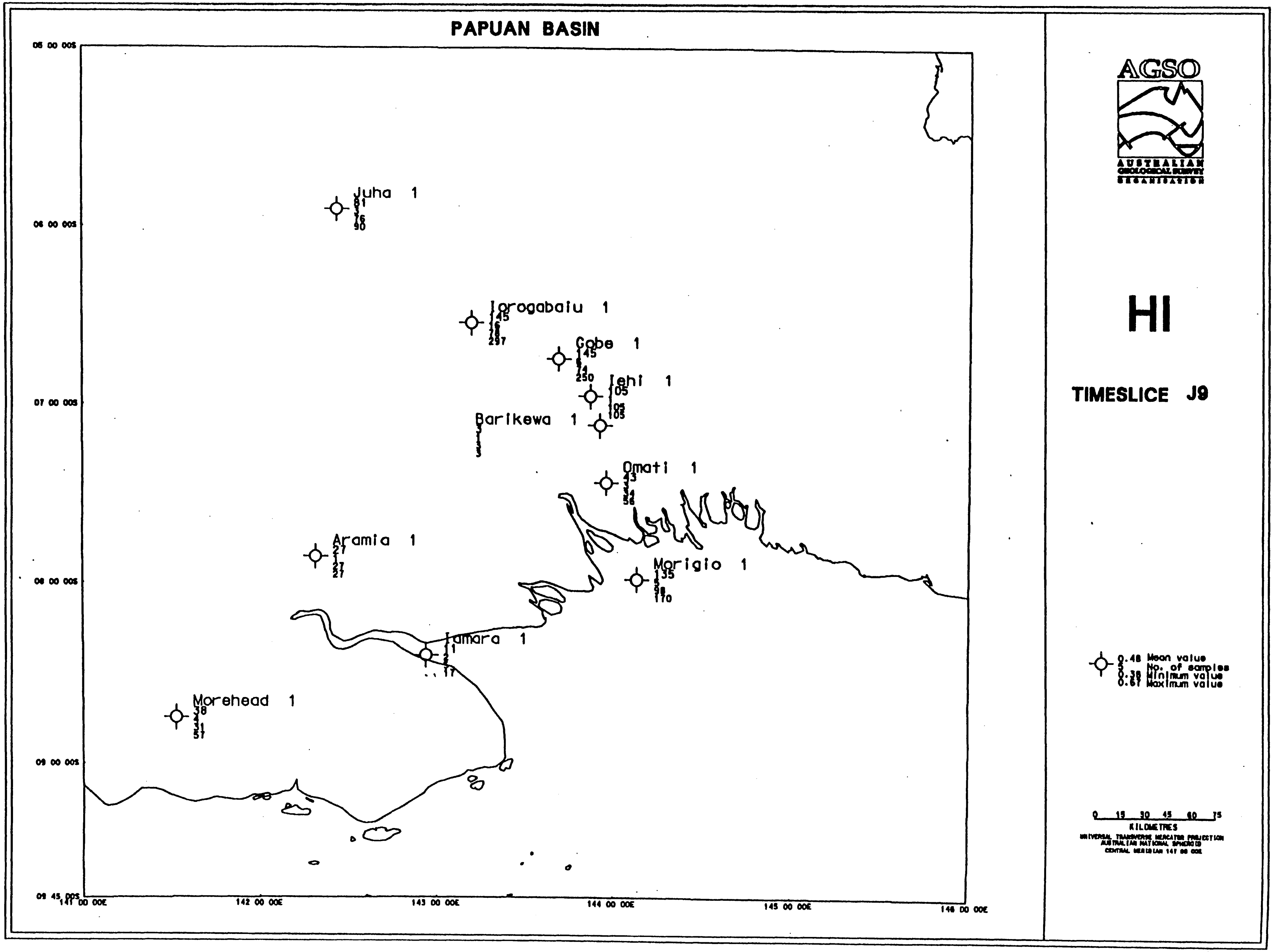
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E



PAPUAN BASIN
Juha 1
Iorogabaiu 1
297
Gobe 1
145
250
Iehi 1
105
Barikewa 1
Omati 1
43
56
Aramia 1
27
Morigio 1
135
170
Tamara 1
Morehead 1
38
57
141 00 00E
142 00 00E
143 00 00E
144 00 00E
145 00 00E
146 00 00E
07 00 00S
08 00 00S
09 00 00S
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
HI
TIMESLICE J9
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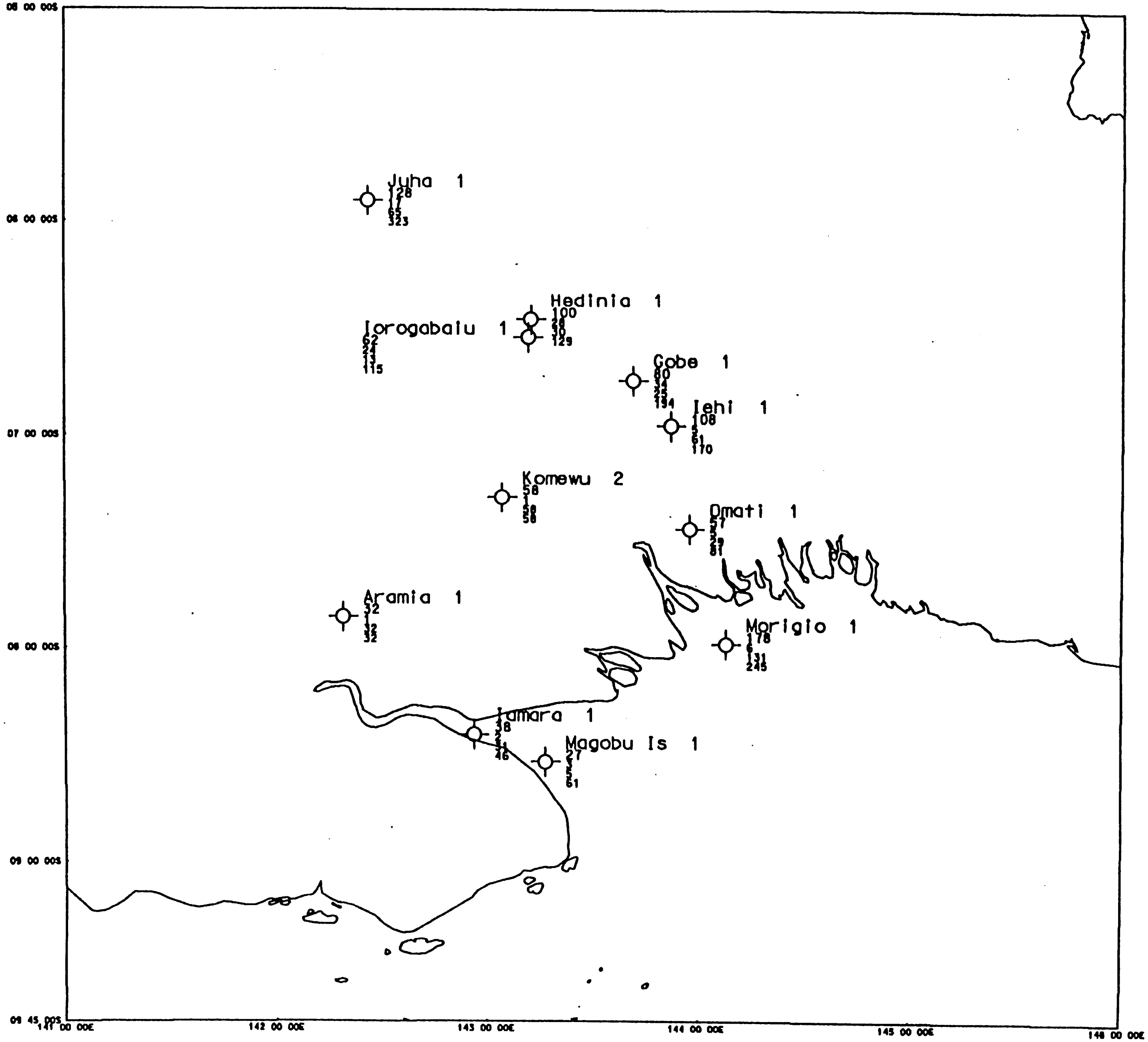
5 No. of samples
0.38 Minimum value
0.67 Maximum value
0 15 30 45 60 75
KILOMETRES

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

HI

TIMESLICE J10

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0.38 Minimum value
0.67 Maximum value

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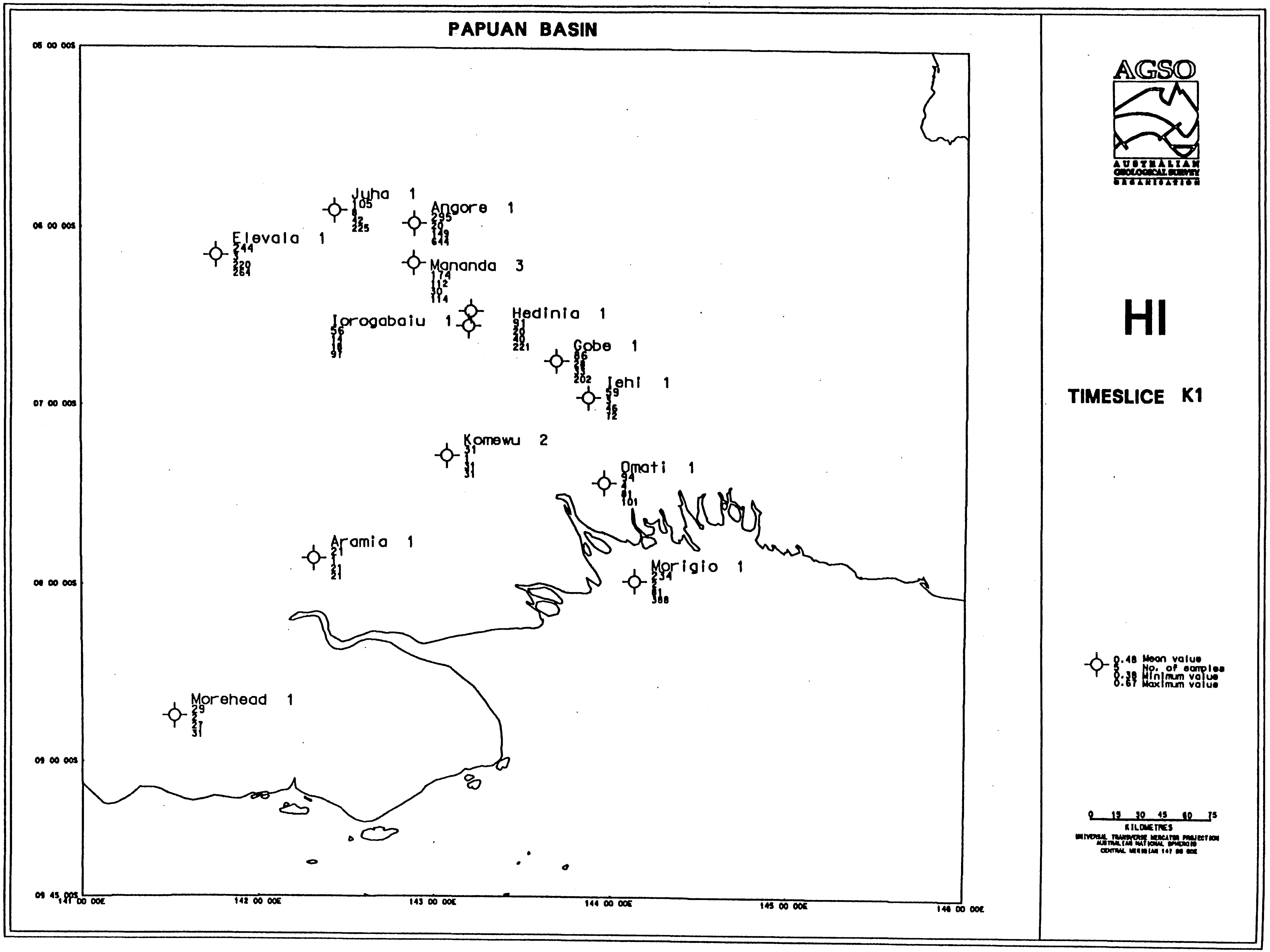
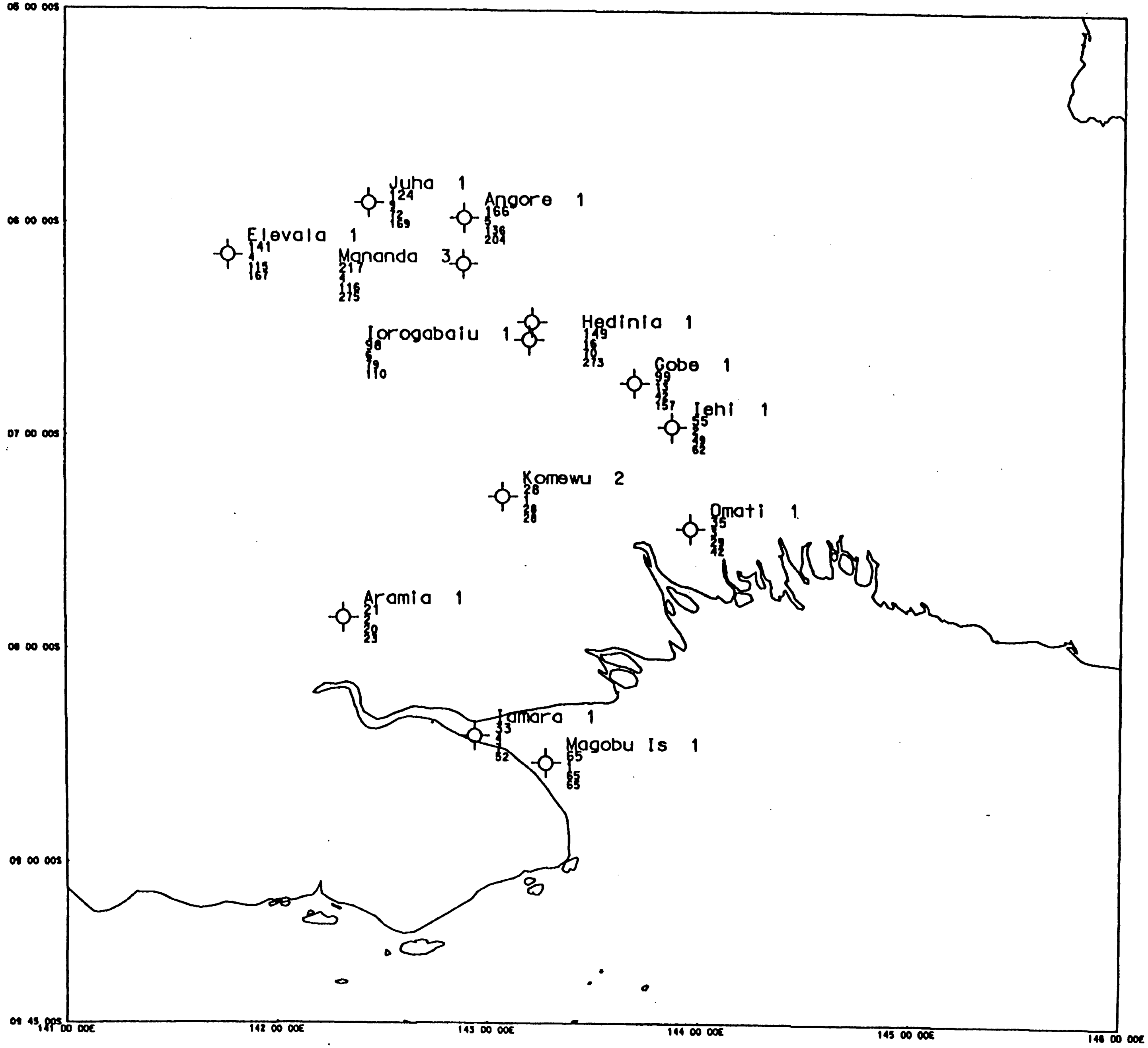
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E


PAPUAN BASIN
05 00 00S
06 00 00S
07 00 00S
08 00 00S
09 00 00S
09 45 00S
141 00 00E
142 00 00E
143 00 00E
144 00 00E
145 00 00E
146 00 00E
Juha 1
105
225
Angore 1
295
644
Elevala 1
244
220
264
Mananda 3
174
112
30
114
Iorogabaiu 1
56
97
Hedinia 1
91
20
40
221
Gobe 1
86
202
Iehi 1
59
46
72
Komewu 2
31
31
31
Omati 1
94
101
Aramia 1
21
21
21
Morigio 1
234
388
Morehead 1
29
31
AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
HI
TIMESLICE K1
0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value
0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 141 00 00E

P... JAN B..SIN



AGSO

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

HI

TIMESLICE K3/2

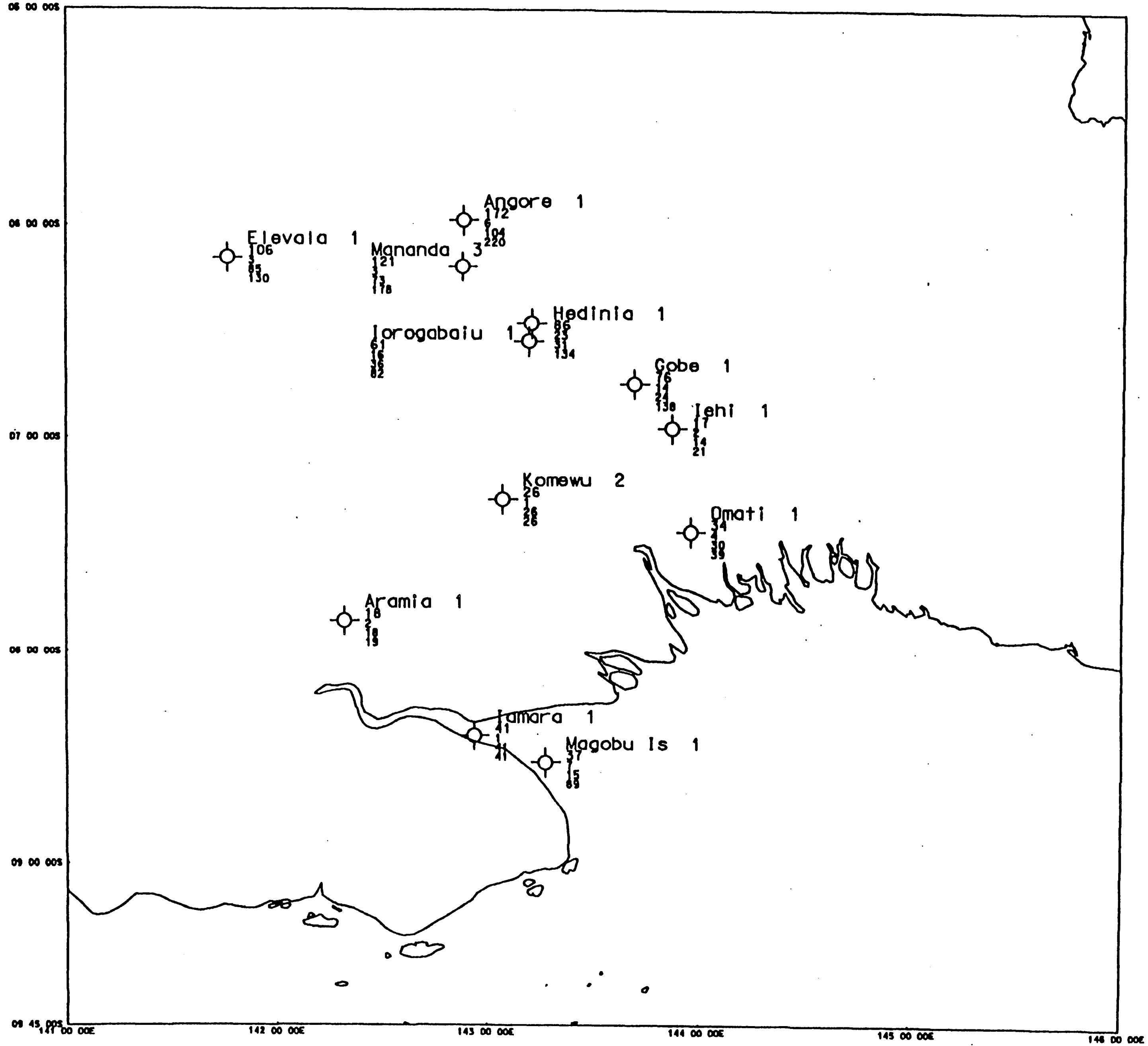
0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75

KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 141 00 00E

PAPUAN BASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

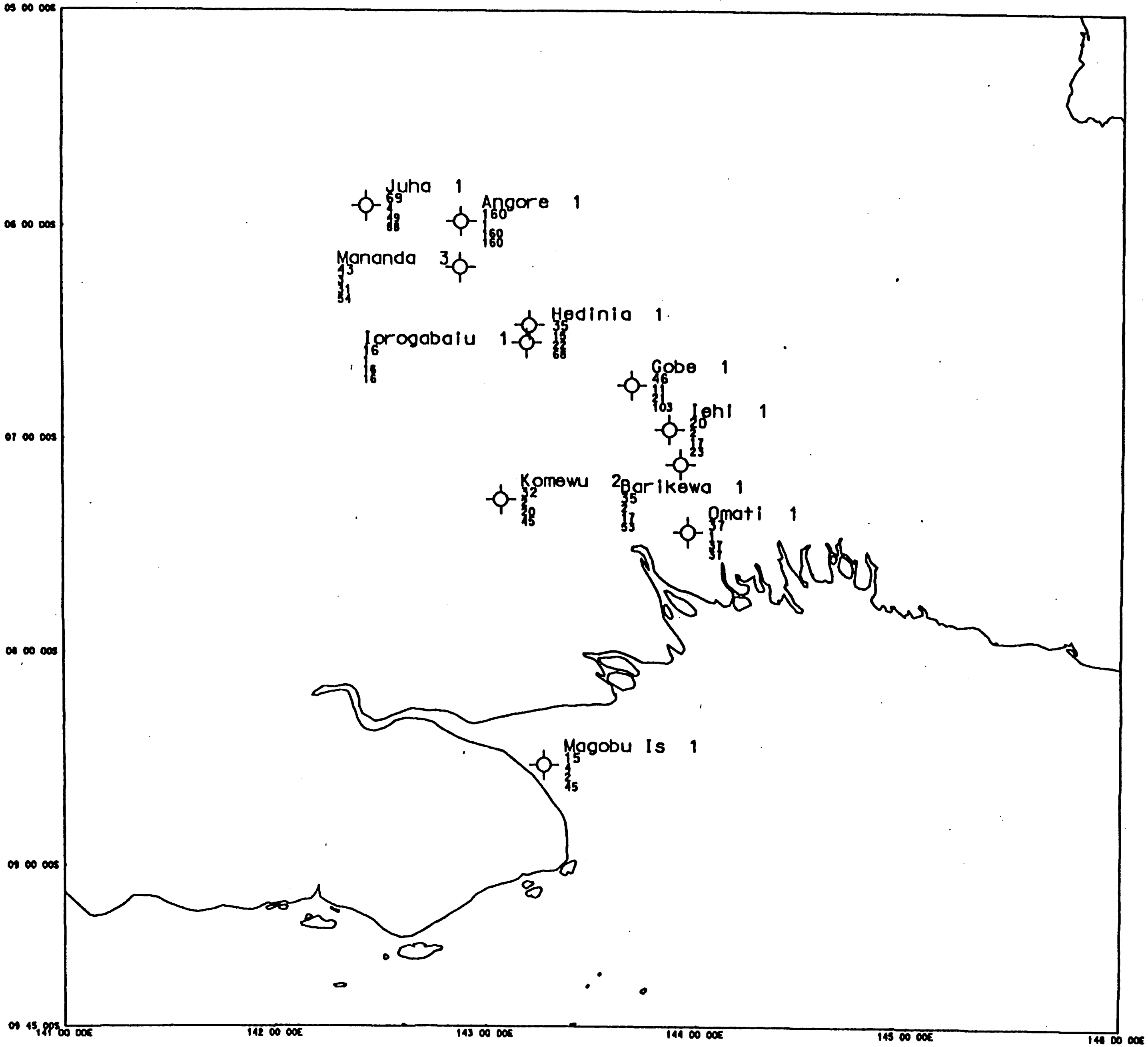
HI

TIMESLICE K4

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

JAN SIN



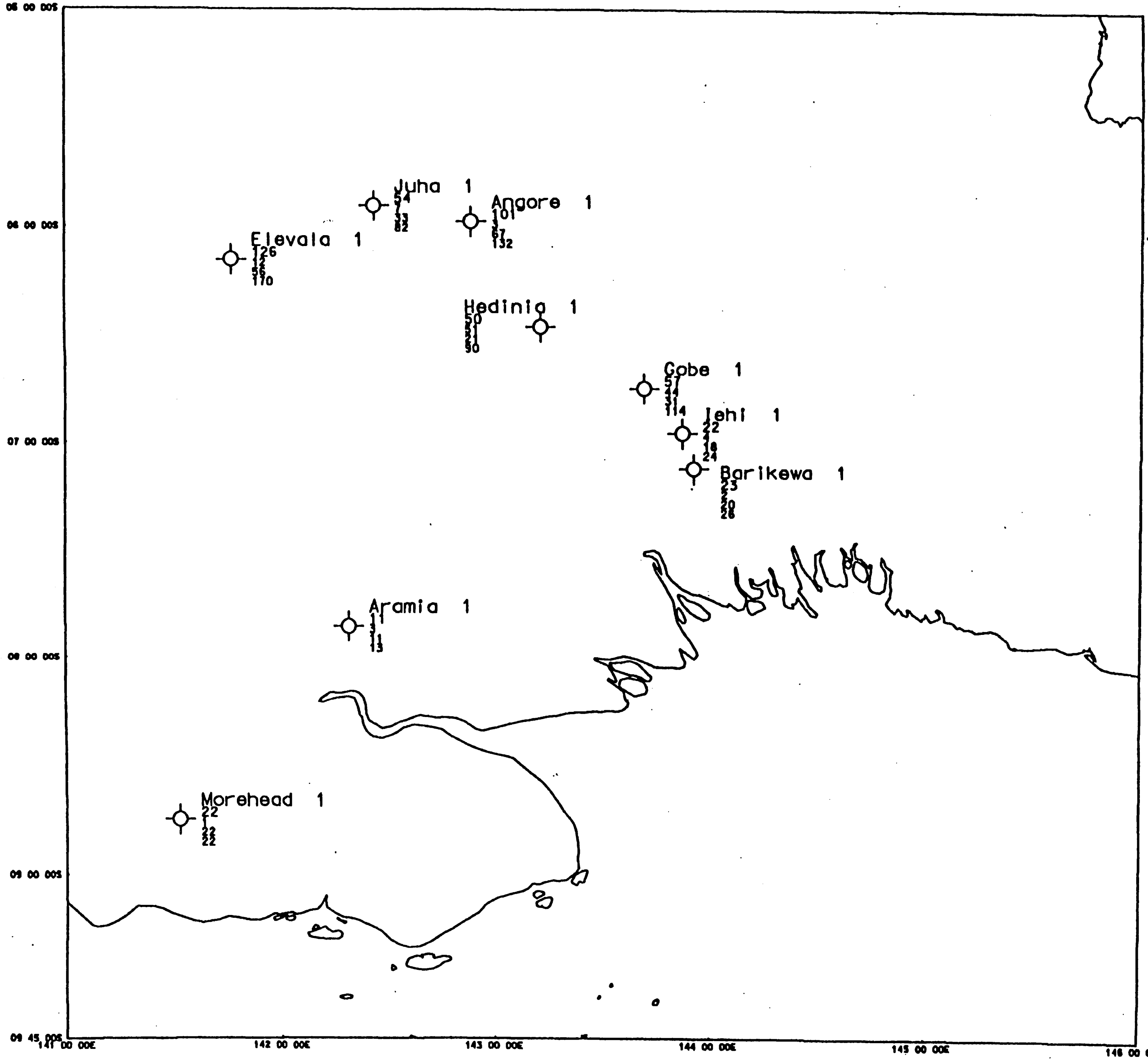
HI

TIMESLICE K5-K8L

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

PAPUAN BASIN



AGSO

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

HI

TIMESLICE K8u

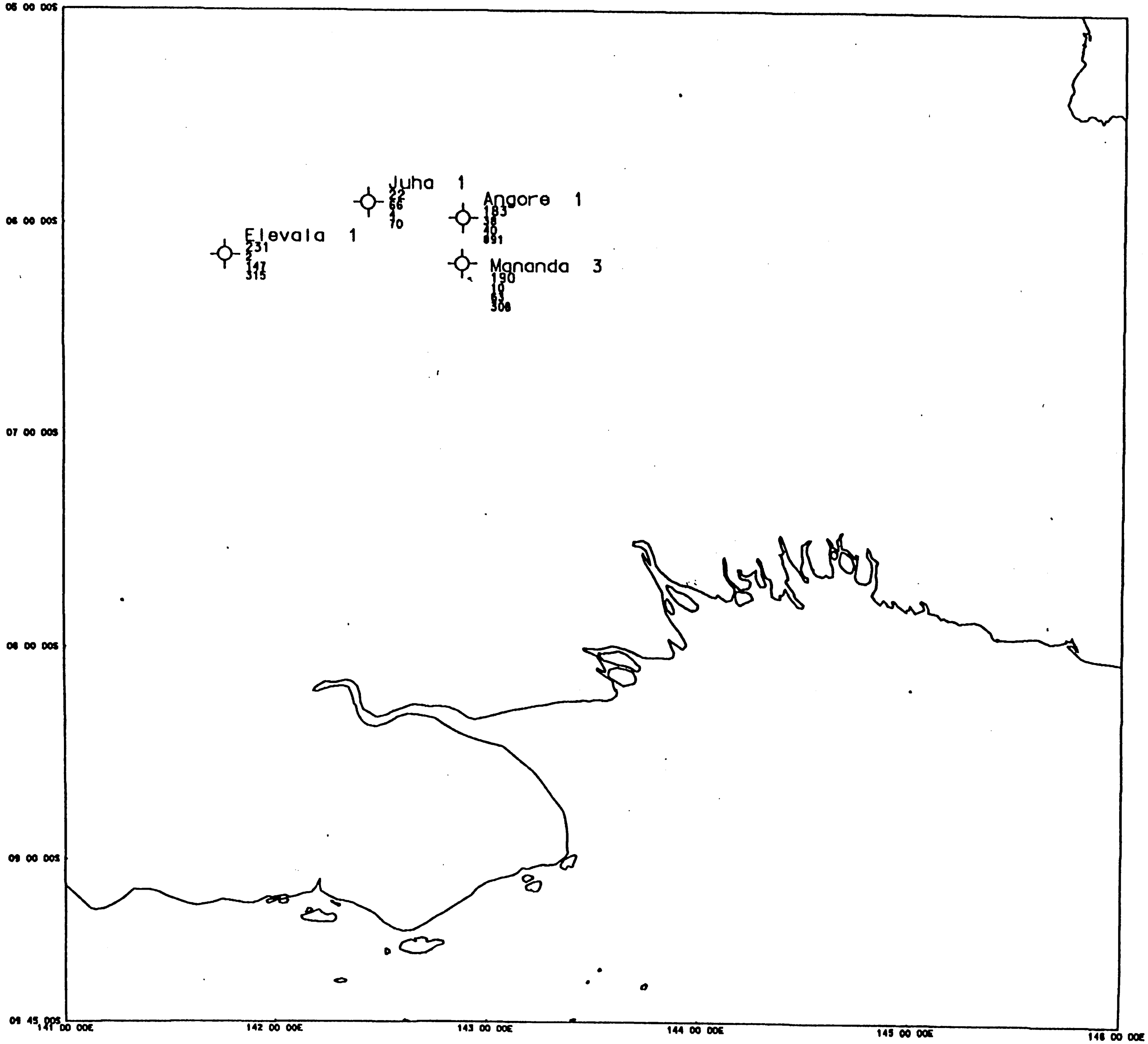
0.48 Mean value
5 No. of samples
0.38 Minimum value
0.61 Maximum value

0 15 30 45 60 75

KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E

… JAN …ASIN



AGSO
AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

HI

TIMESLICE K9

0.48 Mean value
5 No. of samples
0.38 Minimum value
0.67 Maximum value

0 15 30 45 60 75
KILOMETRES
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID
CENTRAL MERIDIAN 147 00 00E