SHEET 1 OF 1 SHEETS M-80S0011F

BUREAU OF MINERAL RESOURCES. GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

PERTH BASIN SURVEY 1988

STACK SECTION

SURVEY 80

LINE 80/11

PANEL 1 OF 1 PANELS

START OF LINE : 80.206.1348
END OF LINE : 80.206.1752

SOUTHEAST

RECORDING PARAMETERS

VESSEL	: RIG SEISMIC	DATE RECORDED	: 25 JUL 1988
SHIP SPEED	: 5 KNOTS	SHOT INTERVAL	: 4.9 SEC
SOURCE	: 80 C.I. WATER GUN	SOURCE DEPTH	: 9 M
GROUP LENGTH	: 12.5 M	NOMINAL CABLE DEPTH	: 5 M
NO. OF TRACES	: 8	LEADING TRACE	: 1
CDP SPACING	: 6.25 M	COVERAGE	: 4-FOLD
NEAR OFFSET	: 53 M	MAXIMUM OFFSET	: 141 M
SAMPLE RATE	: 1 MS	RECORD LENGTH	: 2500 MS
DATA RECORDING FORMAT - BMR SEGY		SHIP HEADING	: 305 DEG

PROCESSING SEQUENCE

1. GEOMETRY DEFINITION
2. REFORMAT TO DISCO INTERNAL FORMAT
3. RESAMPLE TO 2 MILLISECONDS
4. GAIN CORRECTION
5. CDP SORT 4 FOLD
6. STATIC CORRECTION FOR START OF DATA
7. DECONVOLUTION: 150 POINT FILTER 20 MS GAP
8. BANDPASS FILTERING: 20 HZ - 90 HZ
9. TRACE BALANCE
10. CDP STACK 4 FOLD (1500 M/S STACKING VELOCITY)
11. WATER BOTTOM MUTE

DISPLAY PARAMETERS

TRACE DENSITY	: 19.7 TRACES/CM	TIME SCALE	: 20 CM/SEC
POLARITY	: NORMAL	DISPLAY GAIN	: 1.2
HORIZONTAL SCALE	= 1:12303	VERTICAL EXAGGERATION	= 3.3:1
DISPLAY DATE	: JULY 1989		

THIS SEISMIC SECTION WAS PROCESSED AT THE SEISMIC PROCESSING CENTRE OF THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS, CANBERRA, AUSTRALIA, BY PETER NAPIER AND DOUG RAMSAY.

THIS DATA WAS ACQUIRED AS PART OF BMR PROJECT 121.14
SOUTH PERTH BASIN SURVEY 1988
PROJECT LEADERS: JOHN MARSHALL AND DOUG RAMSAY

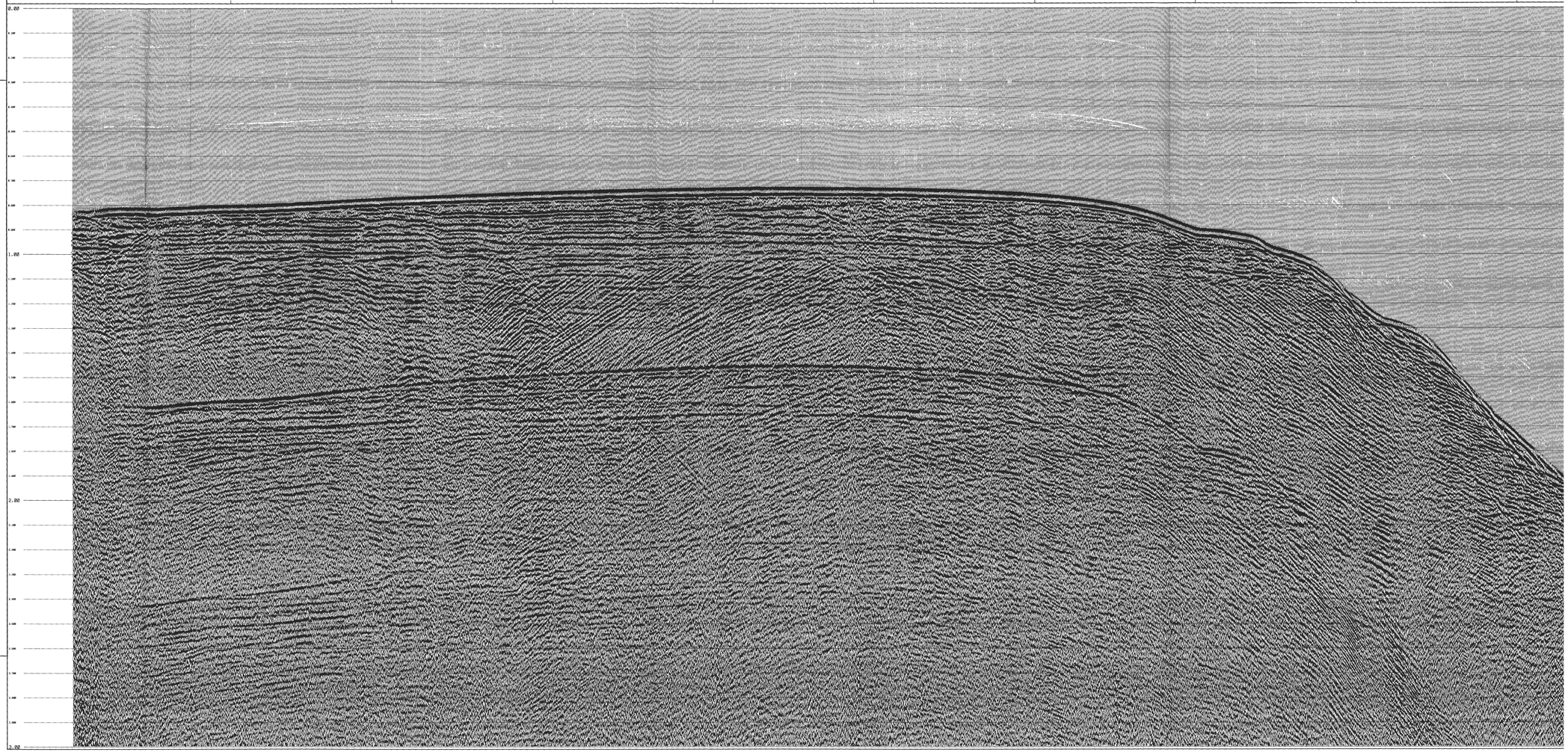
COPIES OF THIS SECTION ARE AVAILABLE FROM:

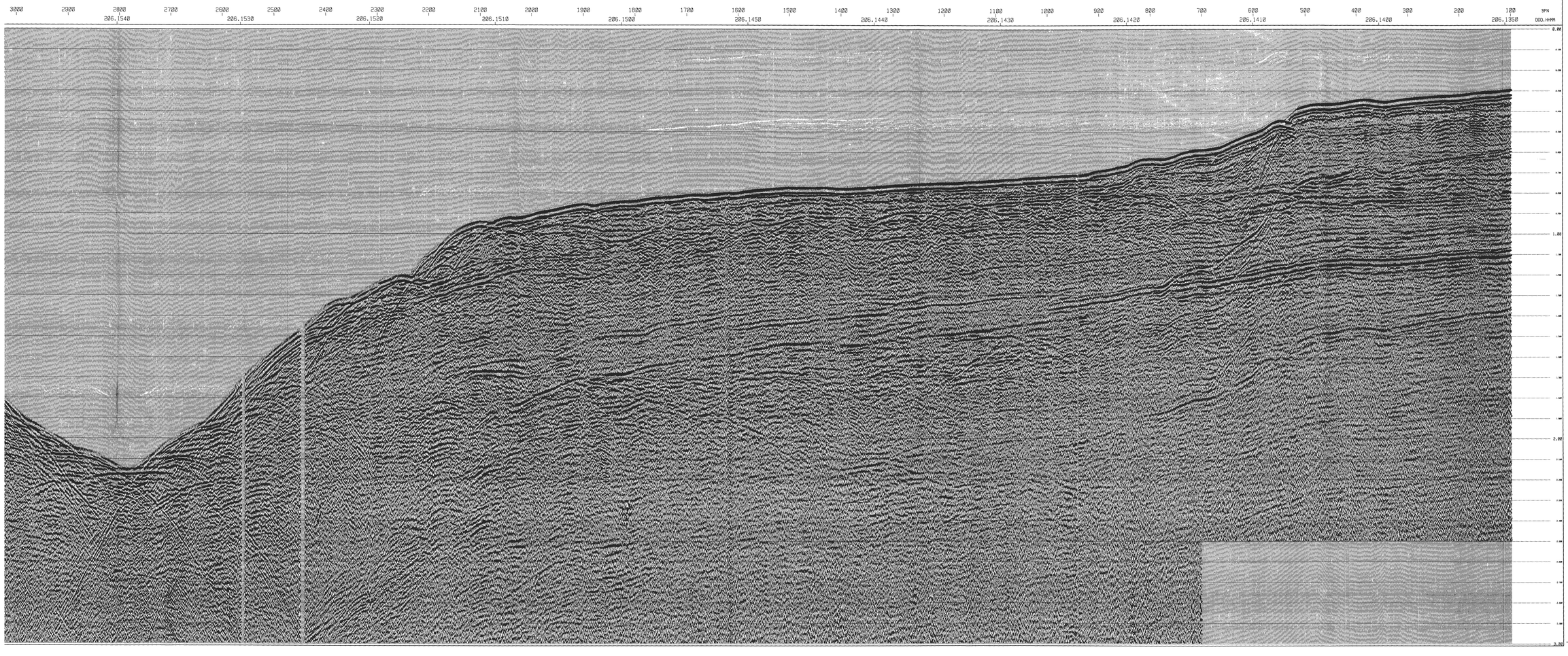
COPY SERVICE
BUREAU OF MINERAL RESOURCES
P.O. BOX 378 CANBERRA ACT 2601 AUSTRALIA

BMR PRODUCT CODE FOR THIS SECTION IS: M-80S0011F

THIS METRIC SECTION HAS BEEN PRODUCED BY THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS AS PART OF THE POLICY OF THE AUSTRALIAN GOVERNMENT TO ASSIST IN THE EXPLORATION AND DEVELOPMENT OF MINERAL RESOURCES. IT MAY NOT BE PUBLISHED, IN WHOLE OR IN PART, EXCEPT AS PERMITTED BY THE COPYRIGHT ACT 1968 WITHOUT THE PERMISSION IN WRITING OF THE DIRECTOR OF MINERAL RESOURCES.

COPYRIGHT RESERVED COMMONWEALTH OF AUSTRALIA 1989





Stacked watergun profile — line 80/11.

SHEET 1 OF 1 SHEETS M-80S0012F

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

PERTH BASIN SURVEY 1988

STACK SECTION

SURVEY 80

LINE 80/12

PANEL 1 OF 1 PANELS

START OF LINE : 80.206.1752
END OF LINE : 80.206.2156

SOUTHEAST

RECORDING PARAMETERS

VESSEL	: RIG SEISMIC	DATE RECORDED	: 25 JUL 1988
SHIP SPEED	: 5 KNOTS	SHOT INTERVAL	: 4.0 SEC
SOURCE	: 80 C.I. WATER GUN	SOURCE DEPTH	: 5 M
GROUP LENGTH	: 12.5 M	NOMINAL CABLE DEPTH	: 5 M
NO. OF TRACES	: 8	LEADING TRACE	: 1
CDP SPACING	: 6.25 M	COVERAGE	: 4-FOLD
NEAR OFFSET	: 53 M	MAXIMUM OFFSET	: 141 M
SAMPLE RATE	: 1 MS	RECORD LENGTH	: 2500 MS
DATA RECORDING FORMAT - BMR SEGY		SHIP HEADING	: 125 DEG

PROCESSING SEQUENCE

1. GEOMETRY DEFINITION
2. REFORMAT TO DISCO INTERNAL FORMAT
3. RESAMPLE TO 2 MILLISECONDS
4. GAIN CORRECTION
5. CDP SORT 4 FOLD
6. STATIC CORRECTION FOR START OF DATA
7. DECONVOLUTION: 150 POINT FILTER 20 MS GAP
8. BANDPASS FILTERING: 20 HZ - 80 HZ
9. TRACE BALANCE
10. CDP STACK 4 FOLD (1500 M/S STACKING VELOCITY)
11. WATER BOTTOM MUTE

DISPLAY PARAMETERS

TRACE DENSITY	: 19.7 TRACES/CM	TIME SCALE	: 20 CM/SEC
POLARITY	: NORMAL	DISPLAY GAIN	: 1.0
HORIZONTAL SCALE	= 1:12303	VERTICAL EXAGGERATION	= 3.3:1
DISPLAY DATE	: JULY 1989		

THIS SEISMIC SECTION WAS PROCESSED AT THE SEISMIC PROCESSING CENTRE OF THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS, CANBERRA, AUSTRALIA.
BY PETER NAPIER AND DOUG RAMSAY.

THIS DATA WAS ACQUIRED AS PART OF BMR PROJECT 121.14
SOUTH PERTH BASIN SURVEY 1988
PROJECT LEADERS: JOHN MARSHALL AND DOUG RAMSAY

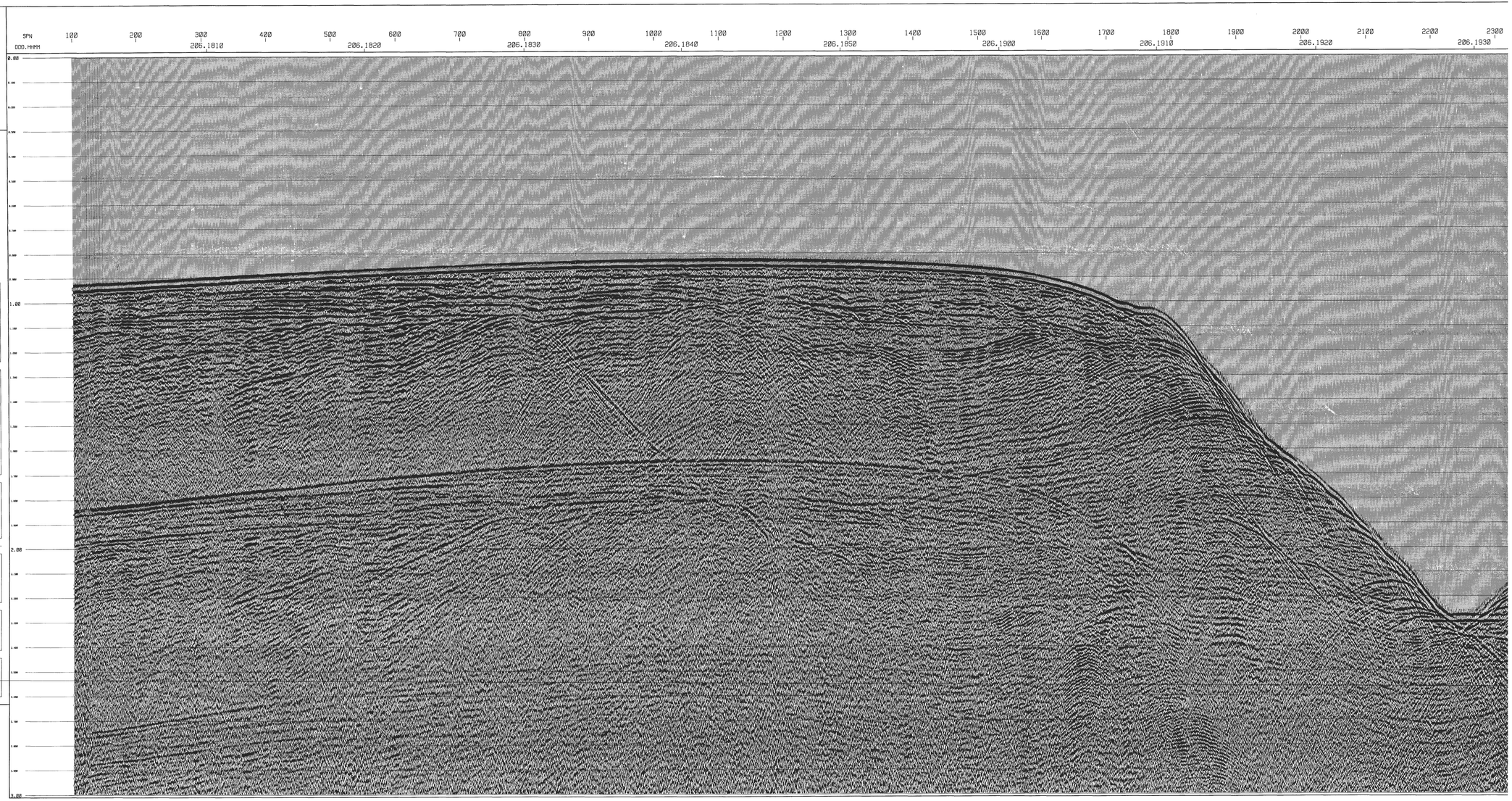
COPIES OF THIS SECTION ARE AVAILABLE FROM:

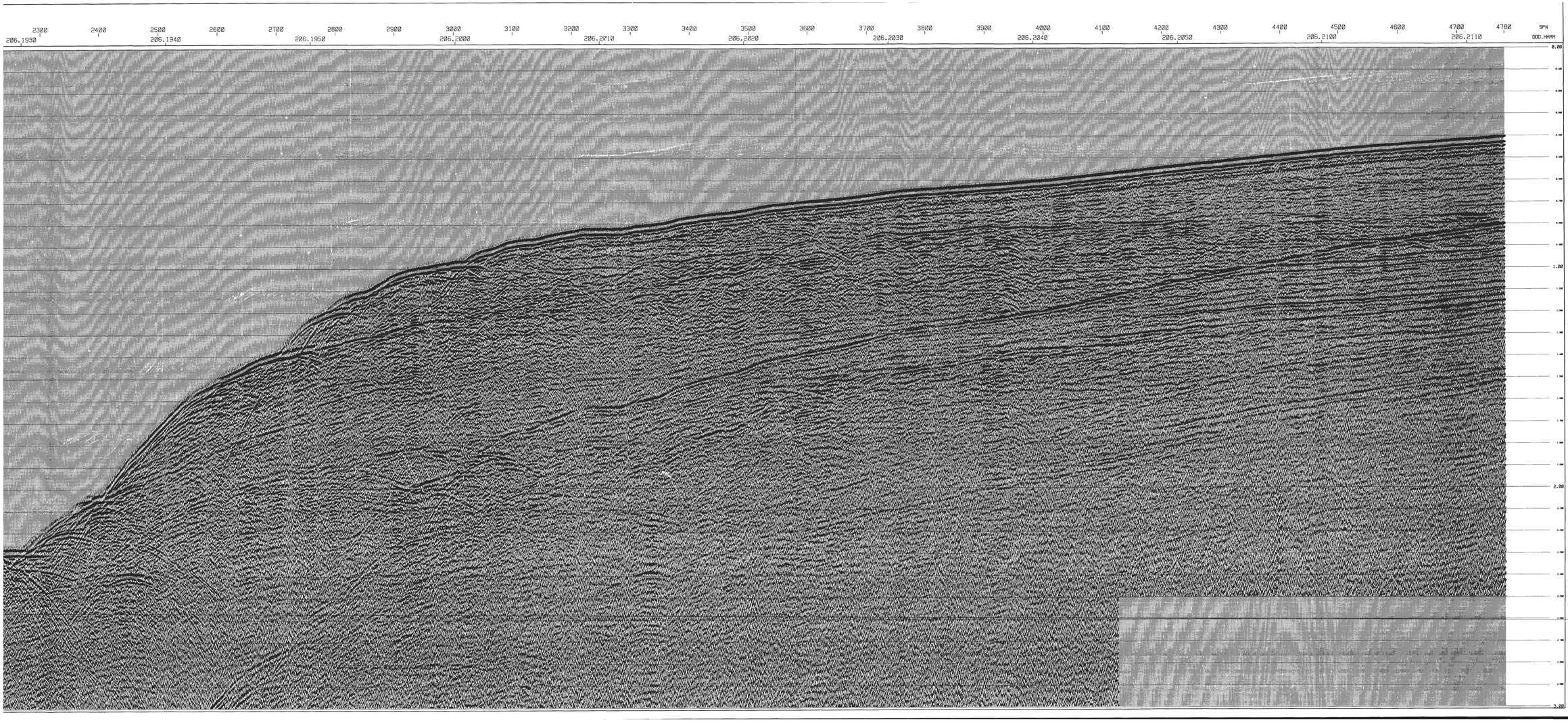
COPY SERVICE
BUREAU OF MINERAL RESOURCES
P.O. BOX 378 CANBERRA ACT 2601 AUSTRALIA

BMR PRODUCT CODE FOR THIS SECTION IS: M-80S0012F

THIS SEISMIC SECTION HAS BEEN PRODUCED BY THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS AS PART OF THE POLICY OF THE AUSTRALIAN GOVERNMENT TO ASSIST IN THE EXPLORATION AND DEVELOPMENT OF MINERAL RESOURCES. IT MAY NOT BE PUBLISHED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE DIRECTOR.

COPYRIGHT RESERVED COMMONWEALTH OF AUSTRALIA 1989





Stacked watergun profile — line 80/12.

PLATE

SHEET 1 OF 1 SHEETS M-80S0013F

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

PERTH BASIN SURVEY 1988

STACK SECTION

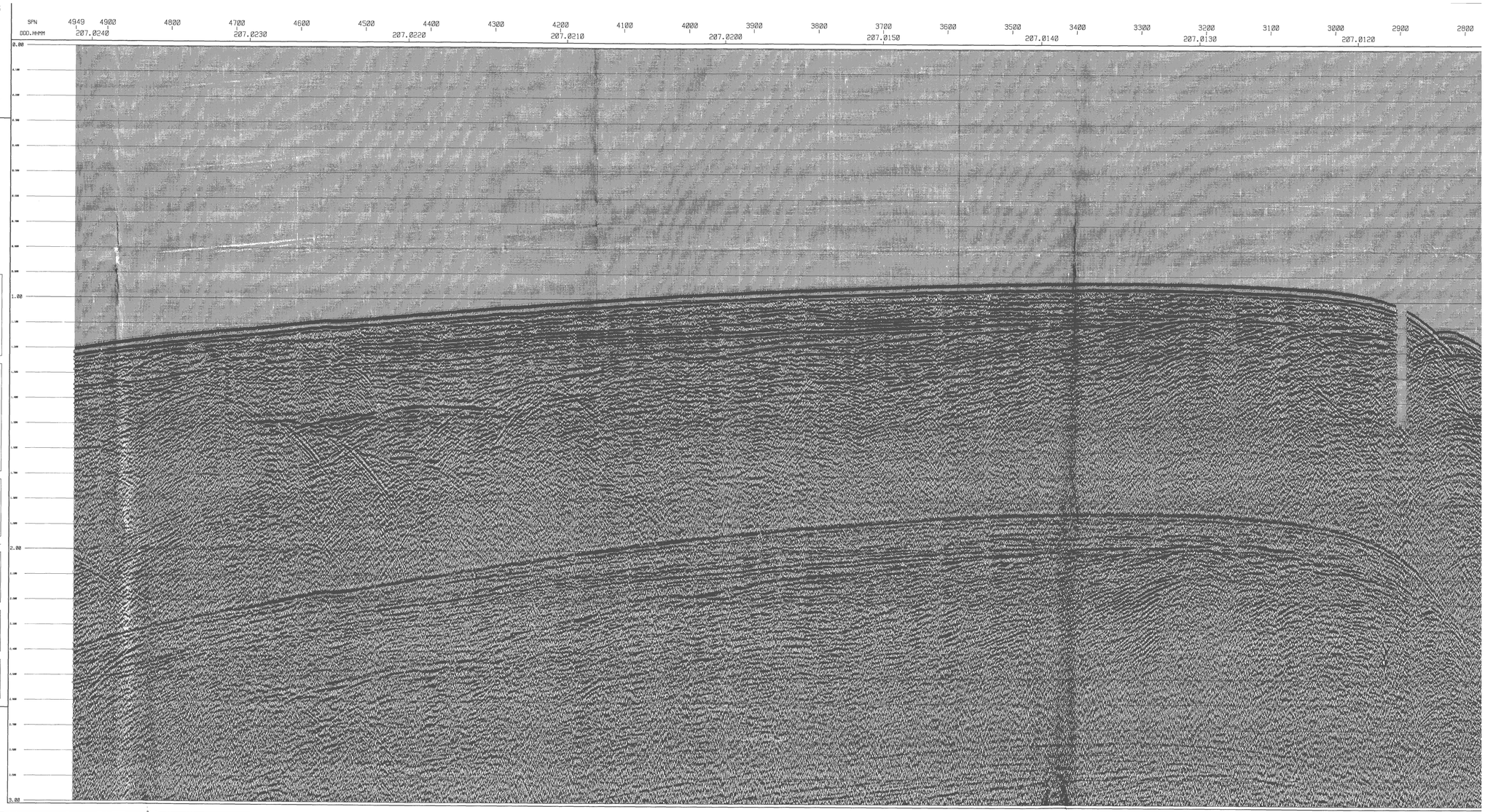
SURVEY 80

LINE 80/13

PANEL 1 OF 1 PANELS

START OF LINE : 80.206.2253
END OF LINE : 80.207.0581

SOUTHEAST



RECORDING PARAMETERS

VESSEL	: RIG SEISMIC	DATE RECORDED	: 25 JUL 1988
SHIP SPEED	: 5 KNOTS	SHOT INTERVAL	: 4.9 SEC
SOURCE	: 80 C.I. WATER GUN	SOURCE DEPTH	: 9 M
GROUP LENGTH	: 12.5 M	NOMINAL CABLE DEPTH	: 5 M
NO. OF TRACES	: 8	LEADING TRACE	: 1
CDP SPACING	: 6.25 M	COVERAGE	: 4-FOLD
NEAR OFFSET	: 53 M	MAXIMUM OFFSET	: 141 M
SAMPLE RATE	: 1 MS	RECORD LENGTH	: 2500 MS
DATA RECORDING FORMAT - BMR SEGY		SHIP HEADING	: 305 DEG

PROCESSING SEQUENCE

1. GEOMETRY DEFINITION
2. REFORMAT TO DISCO INTERNAL FORMAT
3. RESAMPLE TO 2 MILLISECONDS
4. GAIN CORRECTION
5. CDP SORT 4 FOLD
6. STATIC CORRECTION FOR START OF DATA
7. DECONVOLUTION: 150 POINT FILTER 20 MS GAP
8. BANDPASS FILTERING: 20 HZ - 90 HZ
9. TRACE BALANCE
10. CDP STACK 4 FOLD (1500 M/S STACKING VELOCITY)
11. WATER BOTTOM MUTE

DISPLAY PARAMETERS

TRACE DENSITY	: 19.7 TRACES/CM	TIME SCALE	: 20 CM/SEC
POLARITY	: NORMAL	DISPLAY GAIN	: 1.0
HORIZONTAL SCALE	= 1:12303	VERTICAL EXAGGERATION	= 3.3:1
DISPLAY DATE	: JULY 1989		

THIS SEISMIC SECTION WAS PROCESSED AT THE SEISMIC PROCESSING CENTRE OF THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS, CANBERRA, AUSTRALIA.
BY PETER NAPIER AND DOUG RAMSAY.

THIS DATA WAS ACQUIRED AS PART OF BMR PROJECT 121.14
SOUTH PERTH BASIN SURVEY 1988
PROJECT LEADERS: JOHN MARSHALL AND DOUG RAMSAY

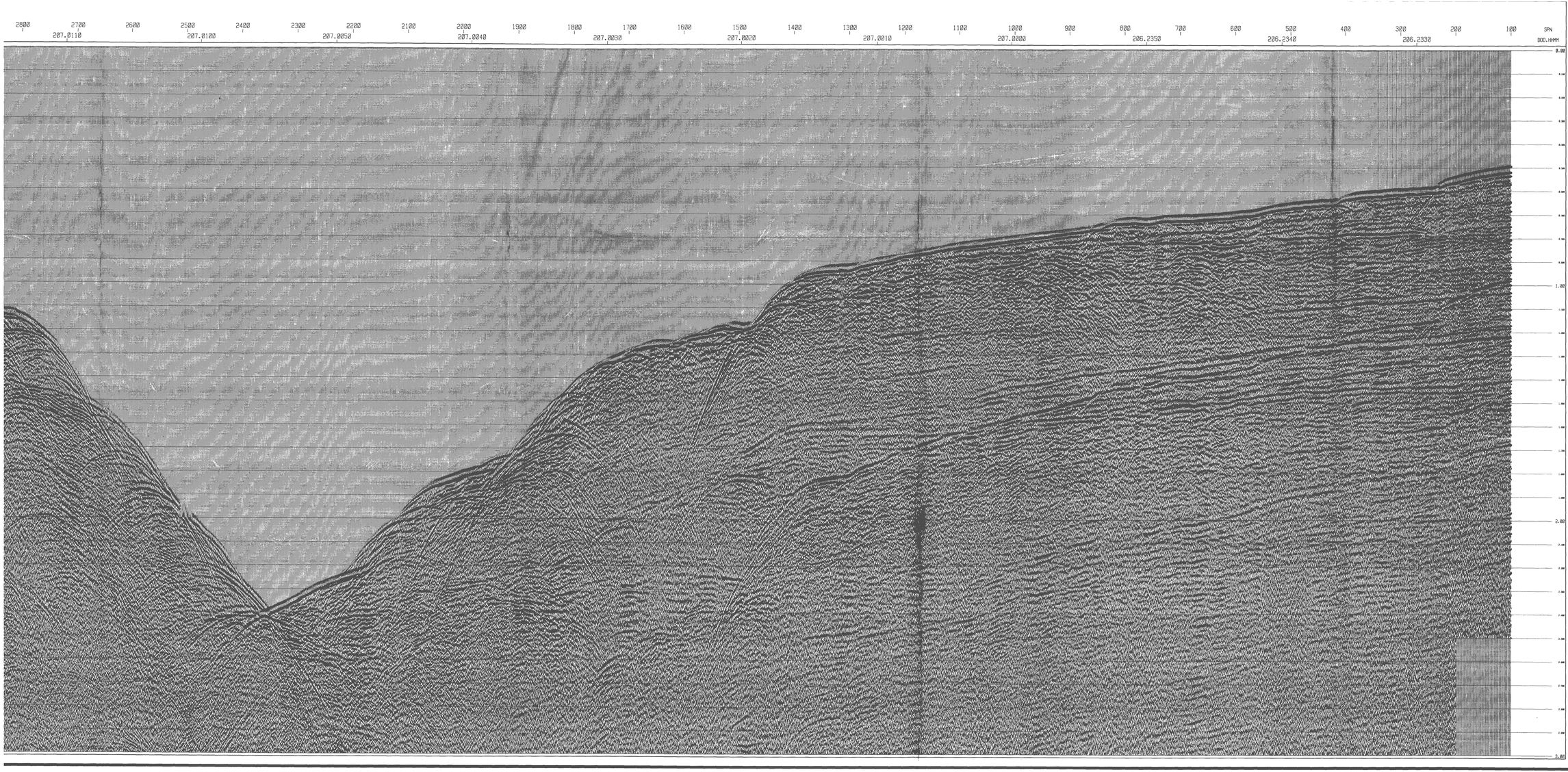
COPIES OF THIS SECTION ARE AVAILABLE FROM:

COPY SERVICE
BUREAU OF MINERAL RESOURCES
P.O. BOX 378 CANBERRA ACT 2601 AUSTRALIA

BMR PRODUCT CODE FOR THIS SECTION IS: M-80S0013F

THIS SEISMIC SECTION HAS BEEN PRODUCED BY THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS AS PART OF THE POLICY OF THE AUSTRALIAN GOVERNMENT TO ASSIST IN THE EXPLORATION AND DEVELOPMENT OF MINERAL RESOURCES. IT MAY NOT BE PUBLISHED IN ANY FORM OR USED IN A COMPANY PROSPECTUS OR STATEMENT WITHOUT THE PERMISSION IN WRITING OF THE DIRECTOR.

COPYRIGHT RESERVED COMMONWEALTH OF AUSTRALIA 1989



Stacked watergun profile — line 80/13.

SHEET 1 OF 1 SHEETS M-80S0014F

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

PERTH BASIN SURVEY 1988

STACK SECTION

SURVEY 80

LINE 80/14

PANEL 1 OF 1 PANELS

START OF LINE : 80.200.0301
END OF LINE : 80.207.0814

SOUTHEAST

RECORDING PARAMETERS

VESSEL	: RIG SEISMIC	DATE RECORDED	: 25 JUL 1988
SHIP SPEED	: 5 KNOTS	SHOT INTERVAL	: 4.9 SEC
SOURCE	: 80 C.I.I. WATER GUN	SOURCE DEPTH	: 6.5 M
GROUP LENGTH	: 12.5 M	NOMINAL CABLE DEPTH	: 5 M
NO. OF TRACES	: 6	LEADING TRACE	: 1
CDP SPACING	: 6.25 M	COVERAGE	: 4-FOLD
NEAR OFFSET	: 59 M	MAXIMUM OFFSET	: 141 M
SAMPLE RATE	: 1 MS	RECORD LENGTH	: 2500 MS
DATA RECORDING FORMAT - BMR SEGY		SHIP HEADING	: 155 DEG

PROCESSING SEQUENCE

1. GEOMETRY DEFINITION
2. REFORMAT TO DISCO INTERNAL FORMAT
3. RESAMPLE TO 2 MILLISECONDS
4. GRIN CORRECTION
5. CDP SORT 4 FOLD
6. STATIC CORRECTION FOR START OF DATA
7. DECONVOLUTION: 150 POINT FILTER 20 MS GAP
8. BANDPASS FILTERING: 20 HZ - 90 HZ
9. TRACE BALANCE
10. CDP STACK 4 FOLD (1500 M/S STACKING VELOCITY)
11. WATER BOTTOM MUTE

DISPLAY PARAMETERS

TRACE DENSITY	: 10.7 TRACES/CM	TIME SCALE	: 20 CM/SEC
POLARITY	: NORMAL	DISPLAY GAIN	: 1.1
HORIZONTAL SCALE	= 1:12503	VERTICAL EXAGGERATION	= 3.3:1
DISPLAY DATE	: JULY 1988		

THIS SEISMIC SECTION WAS PROCESSED AT THE SEISMIC PROCESSING CENTRE OF THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS, CANBERRA, AUSTRALIA.
BY PETER NAPIER AND DOUG RAMSAY.

THIS DATA WAS ACQUIRED AS PART OF BMR PROJECT 121.14
SOUTH PERTH BASIN SURVEY 1988
PROJECT LEADERS: JOHN MARSHALL AND DOUG RAMSAY

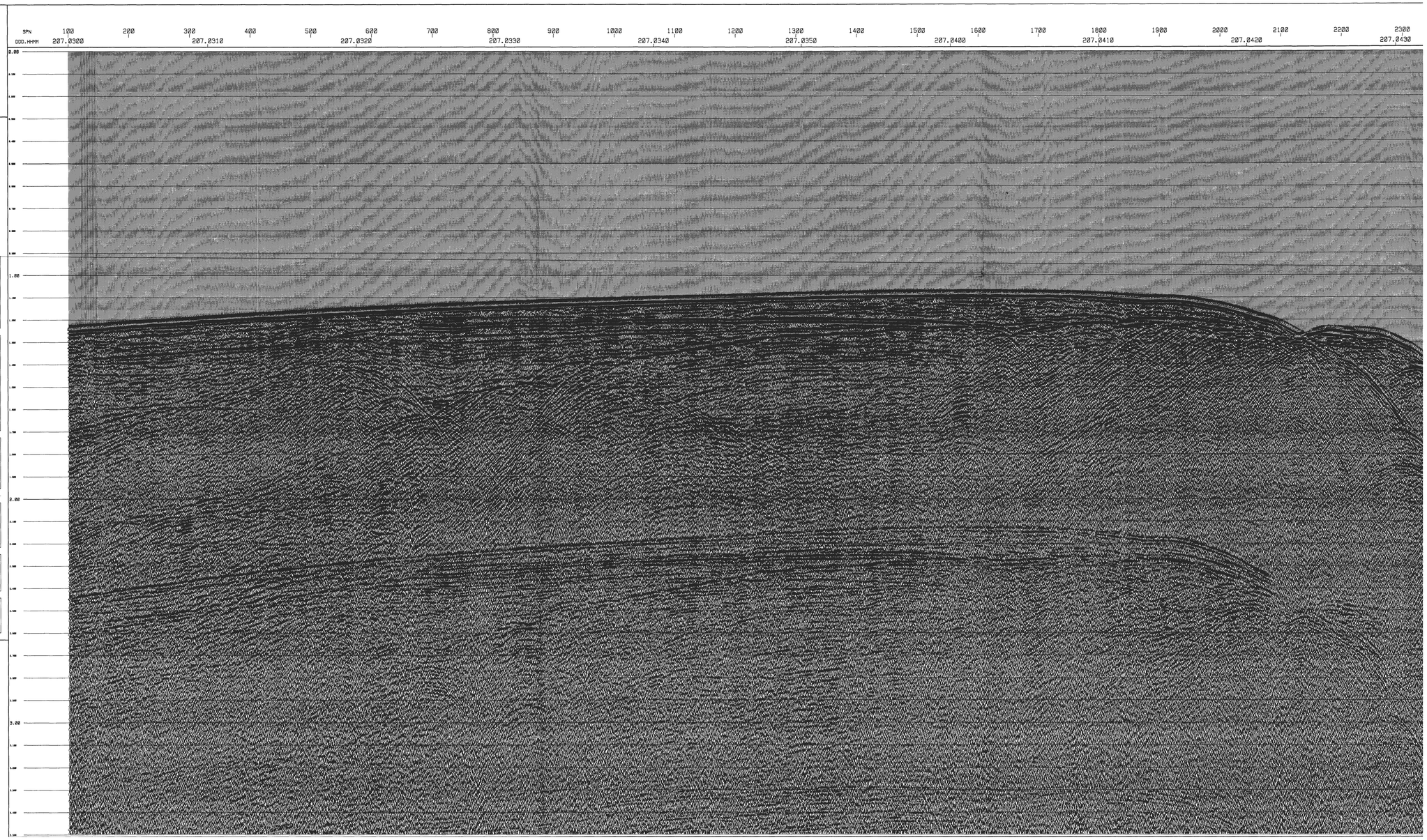
COPIES OF THIS SECTION ARE AVAILABLE FROM:

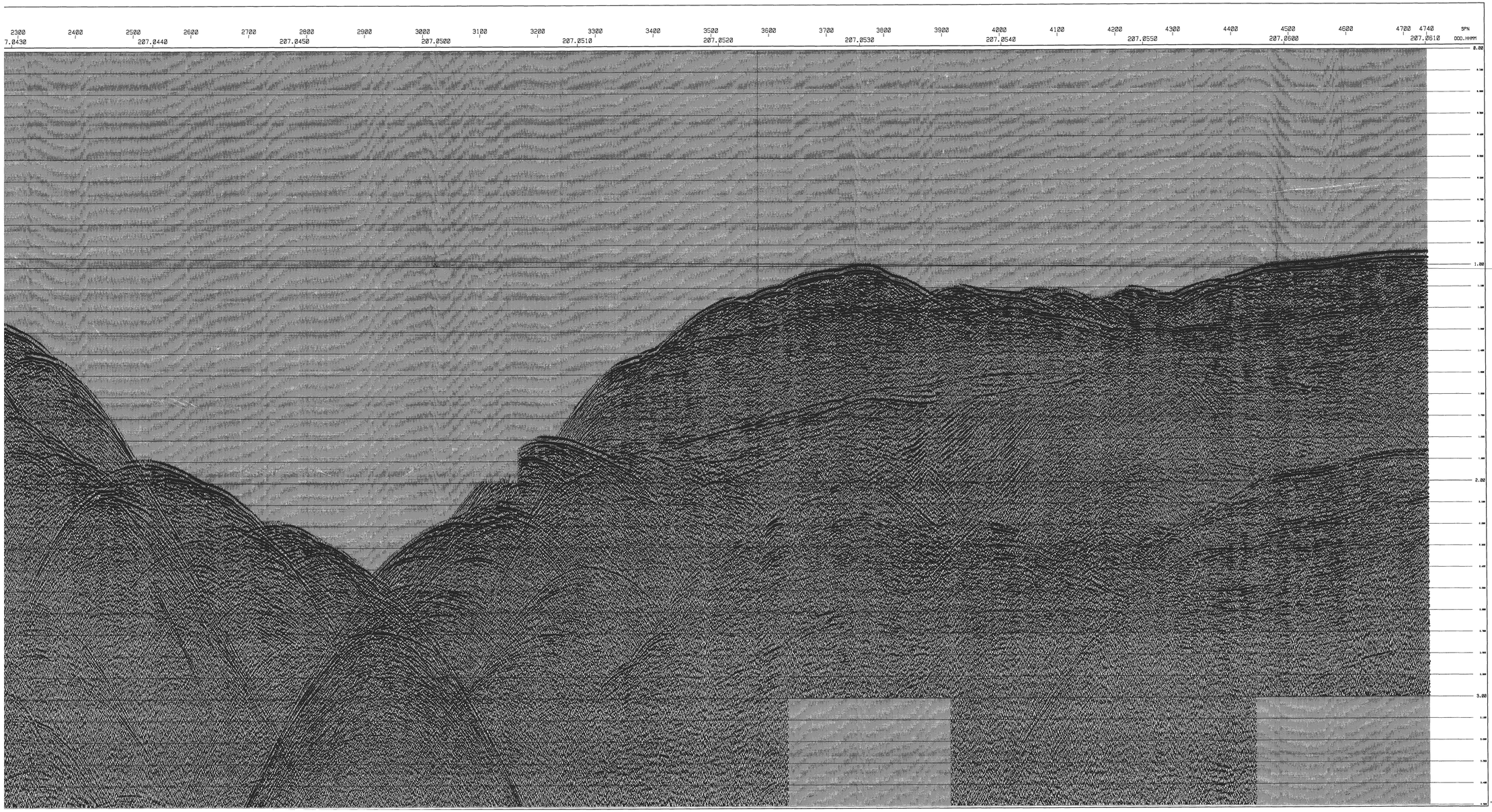
COPY SERVICE
BUREAU OF MINERAL RESOURCES
P.O. BOX 378 CANBERRA ACT 2601 AUSTRALIA

BMR PRODUCT CODE FOR THIS SECTION IS: M-80S0014F

THIS SEISMIC SECTION HAS BEEN PRODUCED BY THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS AS PART OF A PROGRAM FOR THE PUBLIC GOOD. IT MAY BE REPRINTED IN THE PUBLICATION AND DISPLAY OF MINERAL RESOURCES BUT SHOULD NOT BE PUBLISHED TO ANY ADDITIONAL PUBLICATION, PROSPECTUS OR STATEMENT WITHOUT THE PERMISSION IN WRITING OF THE DIRECTOR.

COPYRIGHT RESERVED COMMONWEALTH OF AUSTRALIA 1988





Record 1989/23

Stacked watergun profile — line 80/14.

SHEET 1 OF 1 SHEETS M-80S0019F

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

PERTH BASIN SURVEY 1988

STACK SECTION

SURVEY 80

LINE 80/19

PANEL 1 OF 1 PANELS

START OF LINE : 80.207.1552
END OF LINE : 80.207.1937

NORTHEAST

RECORDING PARAMETERS

VESSEL	: RIG SEISMIC	DATE RECORDED	: 26 JUL 1988
SHIP SPEED	: 5 KNOTS	SHOT INTERVAL	: 4.9/9.7 SEC
SOURCE	: 80 C.I. WATER GUN	SOURCE DEPTH	: 5 M
GROUP LENGTH	: 12.5 M	NOMINAL CABLE DEPTH	: 5 M
NO. OF TRACES	: 8	LEADING TRACE	: 1
CDP SPACING	: 6.25 M	COVERAGE	: 4/2-FOLD
NEAR OFFSET	: 53 M	MAXIMUM OFFSET	: 141 M
SAMPLE RATE	: 1 MS	RECORD LENGTH	: 2500 MS
DATA RECORDING FORMAT - BMR SEGY		SHIP HEADING	: 045 DEG

PROCESSING SEQUENCE

1. GEOMETRY DEFINITION
2. REFORMAT TO DISCO INTERNAL FORMAT
3. RESAMPLE TO 2 MILLISECONDS
4. GAIN CORRECTION
5. CDP SORT 4 FOLD
6. STATIC CORRECTION FOR START OF DATA
7. DECONVOLUTION: 150 POINT FILTER 20 MS GAP
8. BANDPASS FILTERING: 20 HZ - 90 HZ
9. TRACE BALANCE
10. CDP STACK 4 FOLD (1500 M/S STACKING VELOCITY)
11. WATER BOTTOM MUTE

DISPLAY PARAMETERS

TRACE DENSITY	: 19.7 TRACES/CM	TIME SCALE	: 20 CM/SEC
POLARITY	: NORMAL	DISPLAY GAIN	: 1.2
HORIZONTAL SCALE	= 1:12303	VERTICAL EXAGGERATION	= 3.3:1
DISPLAY DATE	: JULY 1989		

THIS SEISMIC SECTION WAS PROCESSED AT THE SEISMIC PROCESSING CENTRE OF THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS, CANBERRA, AUSTRALIA.
BY PETER NAPIER AND DOUG RAMSAY.

THIS DATA WAS ACQUIRED AS PART OF BMR PROJECT 121.14
SOUTH PERTH BASIN SURVEY 1988
PROJECT LEADERS: JOHN MARSHALL AND DOUG RAMSAY

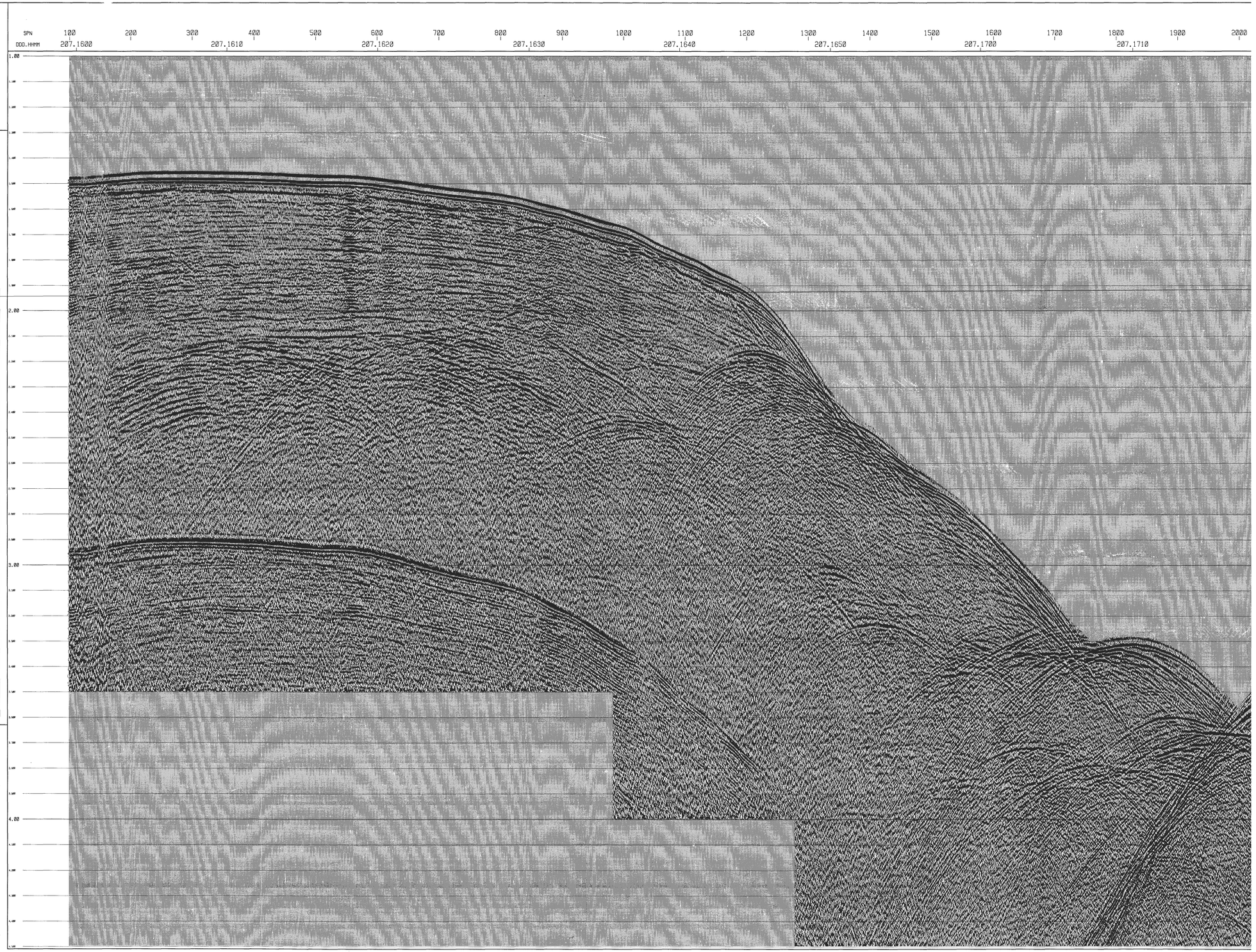
COPIES OF THIS SECTION ARE AVAILABLE FROM:

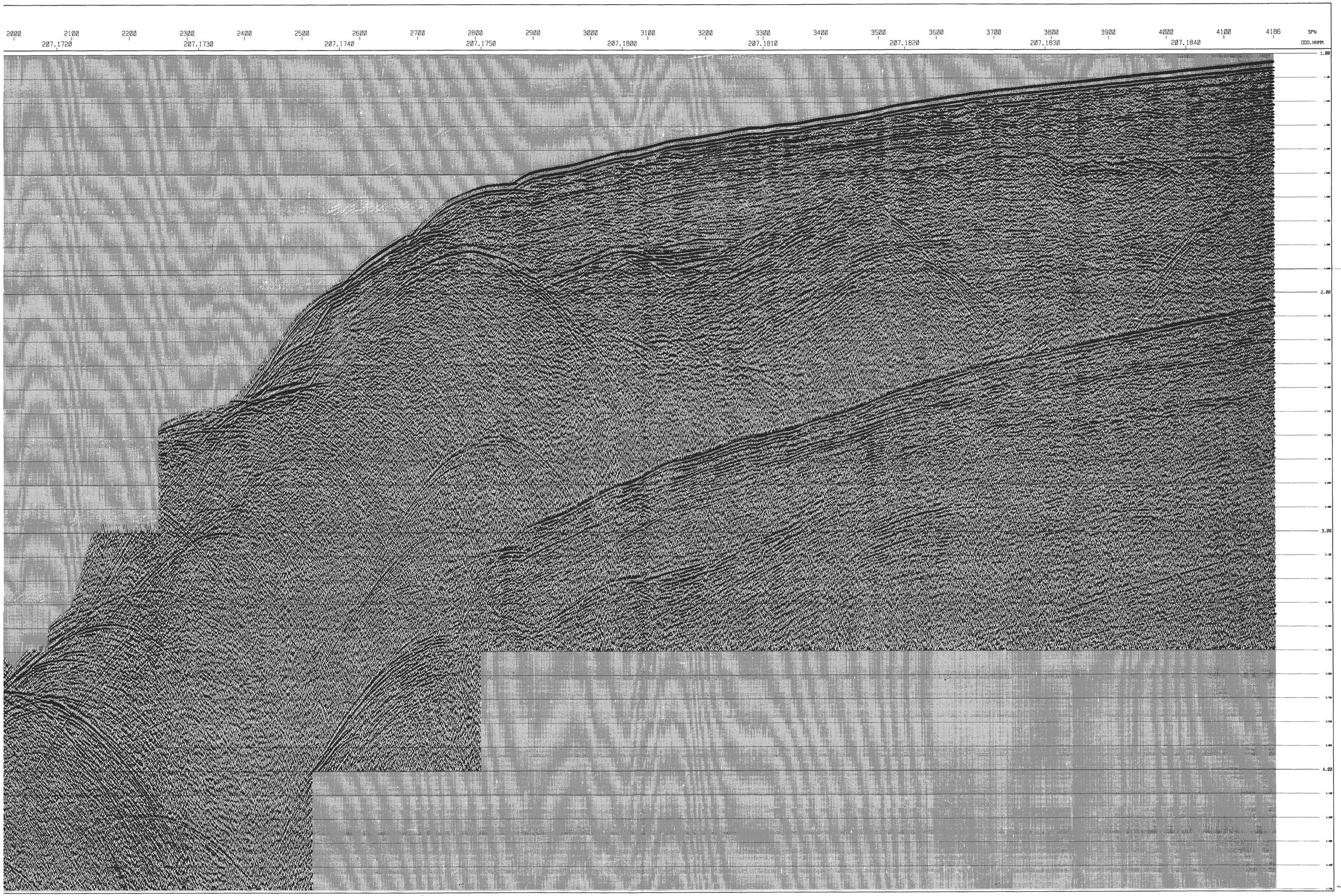
COPY SERVICE
BUREAU OF MINERAL RESOURCES
P.O. BOX 378 CANBERRA ACT 2601 AUSTRALIA

BMR PRODUCT CODE FOR THIS SECTION IS: M-80S0019F

THIS SEISMIC SECTION HAS BEEN PRODUCED BY THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS AS PART OF THE POLICY OF THE AUSTRALIAN GOVERNMENT TO ASSIST IN THE EXPLORATION AND DEVELOPMENT OF MINERAL RESOURCES. IT MAY NOT BE PUBLISHED IN ANY FORM OR USED IN A COMPANY PROSPECTUS OR STATEMENT WITHOUT THE PERMISSION IN WRITING OF THE DIRECTOR.

COPYRIGHT RESERVED COMMONWEALTH OF AUSTRALIA 1989





Record 1989/23

Stacked watergun profile — line 80/19.

PLATE 21

SHEET 1 OF 1 SHEETS M-80S0023F

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

PERTH BASIN SURVEY 1988

STACK SECTION

SURVEY 80

LINE 80/23

PANEL 1 OF 1 PANELS

START OF LINE : 80.208.0428
END OF LINE : 80.208.0028

NORTHEAST

RECORDING PARAMETERS

VESSEL	: RIG SEISMIC	DATE RECORDED	: 26 JUL 1988
SHIP SPEED	: 5 KNOTS	SHOT INTERVAL	: 4.9/9.7 SEC
SOURCE	: 80 C.I. WATER GUN	SOURCE DEPTH	: 5 M
GROUP LENGTH	: 12.5 M	NOMINAL CABLE DEPTH	: 5 M
NO. OF TRACES	: 8	LEADING TRACE	: 1
CDP SPACING	: 6.25 M	COVERAGE	: 4/2-FOLD
NEAR OFFSET	: 53 M	MAXIMUM OFFSET	: 141 M
SAMPLE RATE	: 1 MS	RECORD LENGTH	: 2520 MS
DATA RECORDING FORMAT - BMR SEGY		SHIP HEADING	: 220 DEG

PROCESSING SEQUENCE

1. GEOMETRY DEFINITION
2. REFORMAT TO DISCO INTERNAL FORMAT
3. RESAMPLE TO 2 MILLISECONDS
4. GAIN CORRECTION
5. CDP SORT 4 FOLD
6. STATIC CORRECTION FOR START OF DATA
7. DECONVOLUTION: 150 POINT FILTER 20 MS GAP
8. BANDPASS FILTERING: 20 HZ - 90 HZ
9. TRACE BALANCE
10. CDP STACK 4 FOLD (1500 M/S STACKING VELOCITY)
11. WATER BOTTOM MUTE

DISPLAY PARAMETERS

TRACE DENSITY	: 19.7 TRACES/CM	TIME SCALE	: 20 CM/SEC
POLARITY	: NORMAL	DISPLAY GAIN	: 1.5
HORIZONTAL SCALE	= 1:12303	VERTICAL EXAGGERATION	= 3.3:1
DISPLAY DATE	: JULY 1989		

THIS SEISMIC SECTION WAS PROCESSED AT THE SEISMIC PROCESSING CENTRE OF THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS, CANBERRA, AUSTRALIA.
BY PETER NAPIER AND DOUG RAMSAY.

THIS DATA WAS ACQUIRED AS PART OF BMR PROJECT 121.14
SOUTH PERTH BASIN SURVEY 1988
PROJECT LEADERS: JOHN MARSHALL AND DOUG RAMSAY

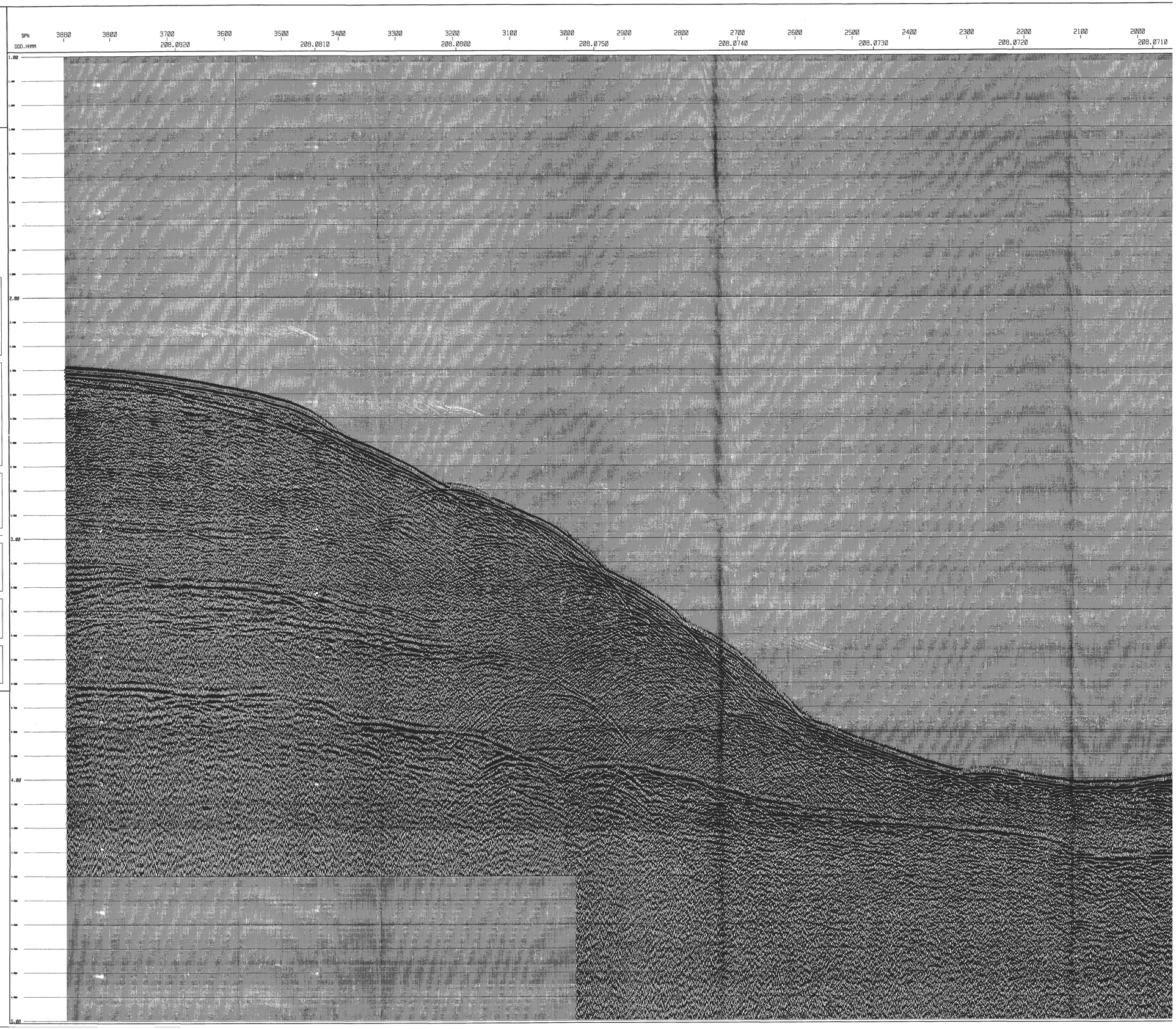
COPIES OF THIS SECTION ARE AVAILABLE FROM:

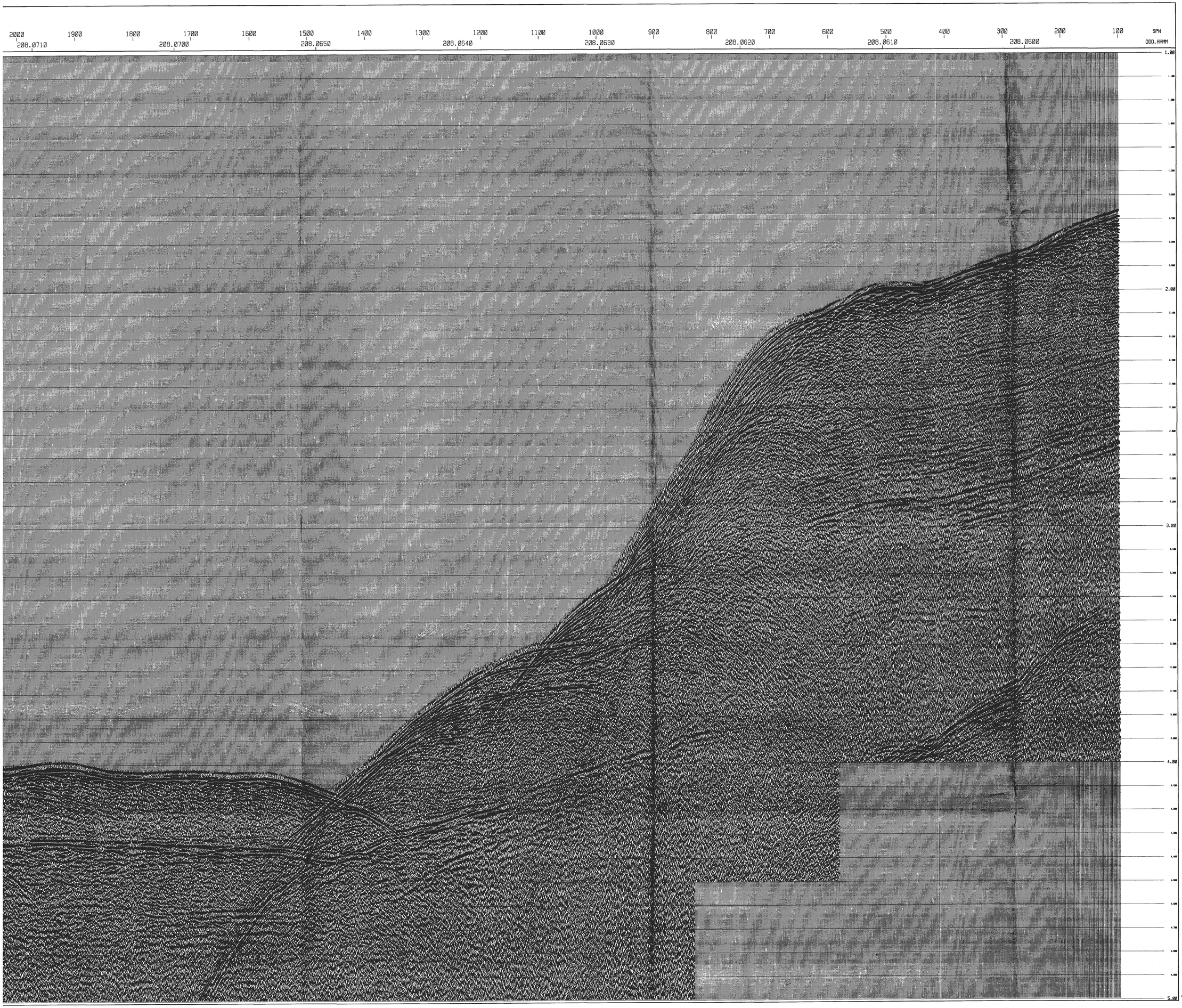
COPY SERVICE
BUREAU OF MINERAL RESOURCES
P.O. BOX 378 CANBERRA ACT 2601 AUSTRALIA

BMR PRODUCT CODE FOR THIS SECTION IS: M-80S0023F

THIS SEISMIC SECTION HAS BEEN PRODUCED BY THE BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS AS PART OF THE POLICY OF THE AUSTRALIAN GOVERNMENT TO ASSIST IN THE EXPLORATION AND DEVELOPMENT OF MINERAL RESOURCES. IT MAY NOT BE PUBLISHED IN ANY FORM OR USED IN A COMPANY PROSPECTUS OR STATEMENT WITHOUT THE PERMISSION IN WRITING OF THE DIRECTOR.

COPYRIGHT RESERVED COMMONWEALTH OF AUSTRALIA 1989





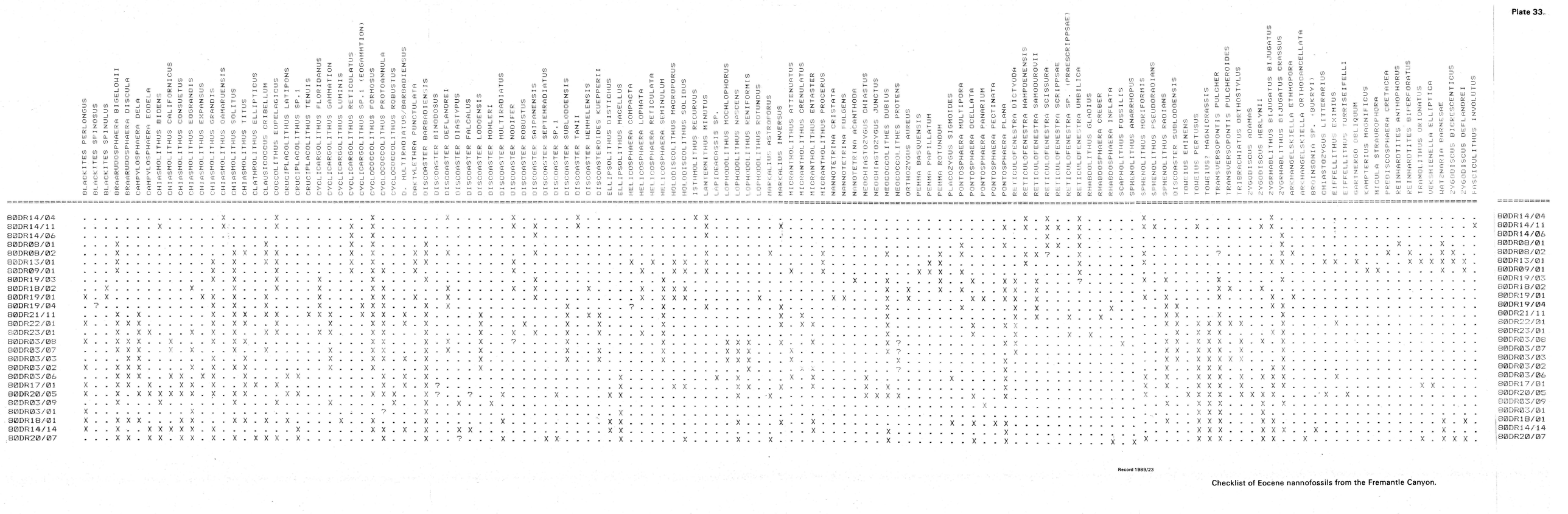
Record 1989/23

Stacked watergun profile — line 80/23.

DEPT. OF MINERAL RESOURCES
LIBRARY

Plate 32.

| | ACTINOZYGUS REGULARIS | AHMUELLERELLA OCTORADIATA | ARKHANGELSKIELLA CYMBIFORMIS | ARKHANGELSKIELLA SPECILLATA | BISCUTUM MELANIAE | CALCULITES OBSCURUS | COROLLITHION EXIGUUM | CRETARHABDUS SURIRELLUS | CRIBROSPHAERELLA DANIAE | CRIBROSPHAERELLA EHRENBERGII | EIFFELLITHUS EXIMIUS | EIFFELLITHUS TURRISEIFFELI | GARTNERAGO OBLIQUUM | HAQIUS CIRCUMRADIATUS | HETERORHABDUS SINUOSUS | KAMPTNERIUS MAGNIFICUS | LAPIDEACASSIS SPP. | LITHRAPHIDITES CARNIOLENSIS | LITHRAPHIDITES QUADRATUS | MANIVITELLA PEMMATOIDEA | MICULA STAUROPHORA | NEPHROLITHUS CORYSTUS | NEPHROLITHUS FREQUENS | PLACOZYGUS FIBULIFORMIS | PREDISCOSPHAERA BUKRYI-STOVERI | PREDISCOSPHAERA CRETACEA | PREDISCOSPHAERA MAJUNGAE | PREDISCOSPHAERA SPINOSA | QUADUM GOTHICUM | REINHARDTITES LEVIS | RHAGODISCUS ANGUSTUS | RHAGODISCUS RENIFORMIS | TETRAPODORHABDUS DECORUS | VEKSHINELLA ELLIPTICA | WATZNAUERIA BARNESAE | THORACOSPHAERA OPERCULATA | BIANTHOLITHUS SPARSUS | BRAARUDOSPHAERA BIGELOWII | BRAARUDOSPHAERA DISCULA | CAMPYLOSPHAERA EDDEA | CHIASMOLITHUS BIDENS | CHIASMOLITHUS CALIFORNICUS | CHIASMOLITHUS CONSUETUS | CHIASMOLITHUS DANICUS | COCCOLITHUS EOPELAGICUS | CRUCIPLACOLITHUS EDWARDSII | CRUCIPLACOLITHUS FREQUENS | CRUCIPLACOLITHUS PLATIFONS | CRUCIPLACOLITHUS PRIMUS | CRUCIPLACOLITHUS TENUIS | CYCLOCOCCOLITHUS ROBUSTUS | DISCOASTER DIASTYPUS | DISCOASTER LENTICULARIS | DISCOASTER MEDIOSUS | DISCOASTER MOHLERI | DISCOASTER MULTIRADIATUS | DISCOASTER NOBILIS | ELLIPSOLITHUS DISTICHUS | ELLIPSOLITHUS MACELLUS | FASCICULITHUS ALANII | FASCICULITHUS INVOLUTUS | FASCICULITHUS LILLIANAE | FASCICULITHUS SPP. | FASCICULITHUS TONII | FASCICULITHUS TYMPANIFORMIS | FASCICULITHUS ULII | HELICULITHUS CANTABRIAE | HELIOLITHUS KLEINPELLII | HELIOLITHUS RIEDELII | LOPHODOLITHUS NASCENS | MARKALIUS ASTROPORUS | MICRANTHOLITHUS ATTENTUATUS | MICRANTHOLITHUS CRENULATUS | MICRANTHOLITHUS ENTASTER | MICRANTHOLITHUS VESPER | NEOCHIASTOZYGUS CHIASIUS | NEOCHIASTOZYGUS DENTICULATIS | NEOCHIASTOZYGUS JUNCTUS | PLACOZYGUS SIGMOIDES | PONTOSPHAERA PLANA | PRINSIUS BISULCUS | SCAPHOLITHUS FOSSILIS | SCAPHOLITHUS SP. | SEMIHOLOLITHUS KERABYI | SPENOLITHUS PRIMUS | SPHENOLITHUS ANARRHOPUS | TOWEIUS EMINENS | TOWEIUS PERTUSUS | TOWEIUS TOVAE | TOWEIUS? MAGNICRASSUS | TRANSVERSOPONTIS PULCHER | ZYGODISCUS HERLYNII | ZYGRHABLITHUS BIJUGATUS | |
|---|---|---



Record 1989/23

Checklist of Eocene nannofossils from the Fremantle Canyon.

DESCRIPTION:

TERTIARY PLANKTONIC FORAMINIFERA IN SAMPLES DREDGED FROM THE FREMANTLE CANYON.
LOGGED M.APTHORPE 6/89. X=PRESENT 1=NO OF SPECIMENS FOUND R=RARE C=COMMON A=ABUN
-DANT M=CONTAMINATION W=REWORKED F=FRAGMENTARY SPECIMEN ?=QUESTIONABLE IDENTIF.

CHECKLIST OF OCCURRENCES BY ALPHABETICAL ORDER

| | ACARININA BROEDERMANNI | ACARININA CF. NSPENSIS | ACARININA COLLACTEA | ACARININA CONVOTOPUNCTATA | ACARININA MCKANNAI | ACARININA NITIDA | ACARININA PRIMITIVA | ACARININA PSEUDOTOPILENSIS | ACARININA SENNI | ACARININA SOLDADOENSIS | ACARININA SP. | CATAPSYDRAX CF. STAINFORTHI | CATAPSYDRAX DISSIMILIS | CHILOGUEMBELINA CF. SP. | CHILOGUEMBELINA MIDWAYENSIS | CHILOGUEMBELINA TRINITATENSIS | GLOBIGERINA ANGIPOROIDES ANGIPOROIDES | GLOBIGERINA ANGIPOROIDES MINIMA | GLOBIGERINA ANGULISUTURALIS | GLOBIGERINA APERTURA | GLOBIGERINA BINAIENSIS | GLOBIGERINA CF. GORTANII | GLOBIGERINA CF. VENEZUELANA | GLOBIGERINA CORPULENTA | GLOBIGERINA EOMPERTURA | GLOBIGERINA HIGGINSI | GLOBIGERINA PRAEBULLOIDES | GLOBIGERINA PRASAEPIS | GLOBIGERINA TRIPARTITA | GLOBIGERINA WOODI | GLOBIGERINATHECA CF. MEXICANA BARRI | GLOBIGERINATHECA INDEX | GLOBIGERINATHECA KUGLERI | GLOBIGERINELLOIDES CF. ASPERUS | GLOBIGERINELLOIDES MESSINAE | GLOBIGERINOIDES ALTIAPERTURUS | GLOBIGERINOIDES PRIMORDIUS | GLOBIGERINOIDES QUADRILOBATUS QUADRILOBATUS | GLOBIGERINOIDES TRILOBUS | GLOBOCONUSA DAUBJERGENSIS | GLOBOQUADRINA DEHISCENS | GLOBOROTALIA CONICA | GLOBOROTALIA ZEALANDICA | GLOBOROTALIA CF. AEGYPTIACA | SUBLERINA CUVILLIERI | HANTKENINA ALABAMENSIS | HANTKENINA PRIMITIVA | HETEROHELIX SPP. | MOROZOVELLA ACUTA | MOROZOVELLA AEQUA | MOROZOVELLA ANGULATA | MOROZOVELLA ARAGONENSIS | MOROZOVELLA BULLBROOKI | MOROZOVELLA CAUCASICA | MOROZOVELLA CF. VELASCOENSIS | MOROZOVELLA CONVEXA | MOROZOVELLA CRASSATA | MOROZOVELLA FORMOSA GRACILIS | MOROZOVELLA LEHNERI | MOROZOVELLA LENSIFORMIS | MOROZOVELLA MARGINODENTATA | MORODOVELLA OCCLUSA | MORODOVELLA PUSILLA | MORODOVELLA REX | MORODOVELLA SPINULOSA | MORODOVELLA SUBBOTINAE | MORODOVELLA UNCINATA | MOPODOVELLA WILCOXENSIS | PLANOROTALITES AUSTRALIFORMIS | PLANOROTALITES CHAPMANI | PLANOROTALITES COMPRESSA | PLANOROTALITES EMENBERGI | PLANOROTALITES IMITATA | PLANOROTALITES PLANOCONICA | PLANOROTALITES PSEUDOMENARDII | PLANOROTALITES PSEUDOSCITULA | PLANOROTALITES SIMPLEX | PSEUDOHASTIGERINA MICRA | PSEUDOHASTIGERINA WILCOXENSIS | RUGOGLOBIGERINA SPP. | SUBBOTINA EOCENICA | SUBBOTINA FRONTOSA | SUBBOTINA INCONSTANS | SUBBOTINA LINAPERTA | SUBBOTINA PRAECURSORIA | SUBBOTINA PSEUDOBULLOIDES | SUBBOTINA SP. | SUBBOTINA SPIRALIS | SUBBOTINA TRILOCULINOIDES | SUBBOTINA VELASCOENSIS | SUBBOTINA WHITEI | TRUNCOROTALOIDES SP. | TRUNCOROTALOIDES TOPILENSIS | TURBOROTALIA CERROAZULENSIS CERROAZULENSIS | TURBOROTALIA CERROAZULENSIS COCOAENSIS | TURBOROTALIA CERROAZULENSIS POMEROLI | TUREMOTALIA CF. GEMMA | TUROROTALIA CF. HUNDA | TUROROTALIA INCRASSENS | TUROROTALIA OBESA | TUROROTALIA OPIMA NANA | TUROROTALIA OPIMA OPIMA | TUROROTALIA PERIPHEROACUTA VAR. | TUROROTALIA SIAKENSIS | COMMENTS |
|---|---|---

DESCRIPTION:

DISTRIBUTION OF TERTIARY BENTHONIC FORAMINIFERA IN SAMPLES DREDGED FROM THE FREMANTLE CANYON.LOGGED M.APTHORPE 6/89.X=PRESENT <=C.F. 1=NO OF SPECIMENS FOUND A=ABUNDANT C=COMMON R=RARE M=CONTAMINATION W=REWORKED ?=QUESTIONABLE IDENTIFIC.

CHECKLIST OF OCCURRENCES BY ALPHABETICAL ORDER

| | ALABAMINA WESTRALIENSIS | ANGULOGERINA SUBANGULARIS | ANOMALINOIDES CF. PERTHENSIS | ANOMALINOIDES CF. PRAESPISSIFORMIS | ANOMALINOIDES PROCOLLIGERUS | ANOMALINOIDES SP. | ASTRONONION CF. STELLIGERUM | BOLIVINA INCRASSATA | BOLIVINELLA FOLIUM | BOLIVINOIDES PALEOCENICUS | BOLIVINOPSIS CUBENSIS | BRIZALINA CF. MACELLA | BULIMINA ARKADELPHIANA | BULIMINA ASPERO-ACULEATA | BULIMINA ESNAENSIS | BULIMINA JACKSONENSIS | BULIMINA SP. | BULIMINELLA ELEGANTISSIMA | CASSIDULINA NEOCARINATA | CASSIDULINOIDES CF. ORIENTALIS | CERATOBULIMINA CF. JUTLANDICA | CHILOSTOMELLA EOCENICA | CIBICIDES CF. PRAECURSORIUS | CIBICIDES CF. SIMPLEX | CIBICIDES EKBLOMI | CIBICIDES MEDIOCRIS | CIBICIDES PERLUCIDUS | CIBICIDES SPP. | CIBICIDES UMBONIFER | CIBICIDES WHITEI | CIBICIDINA MARIAE | CITHARINA SP. | CLAVULINA SP. | CONORBINA SP.OF MCGOWRAN | DENTALINA INSULSA | DISCORBINELLA SP. | DOROTHIA ALABAMENSIS | DOROTHIA OXYCONA | ELPHIDIUM MACELLUM | EPISTOMINA EOCENICA | EPONIDES CF. ELEVATUS | EPONIDES CONCINNA | EPONIDES PLUMMERAE | EPONIDES UMBONATUS | FISSURINA LACUNATA | FISSURINA SP. | GAUDRYINA SP. | GAVELINELLA BECCARIFORMIS | GAVELINELLA DANICA | GLABRATELLA SP. | GLOBOCASSIDULINA SUBGLOBOSA | GLOBULINA PRISCA | GYROIDINA GIRARDANA | GYROIDINA SP. | GYROIDINOIDES OCTOCAMERATA | HERONALLENIA LINGULATA | HYPERAMMINA SP. | KARRERIELLA CF. BRADYI |
|---|---|---

DESCRIPTION:

FORAMINIFERA IN CRETACEOUS SAMPLES DREDGED FROM THE FREMANTLE CANYON. LOGGED BY M.APTHORPE 6/89. X=PRESENT <=C.F. 1=NO OF SPECIMENS FOUND R=RARE C=COMMON A=ABUNDANT M=CONTAMINATION W=REWORKED F=FRAGMENTARY SPECIMEN

CHECKLIST OF OCCURRENCES BY HIGHEST APPEARANCE

| | 1 ABATHOMPHALUS MAYAROENSIS | 2 ALABAMINA CF. AUSTRALIS | 3 BULIMINELLA CARSEYAE | 4 DOROTHIA BULLETTA | 5 DOROTHIA SP. | 6 EPONIDES CONCINNA | 7 EPONIDES DIVERSUS | 8 FISSURINA SP. | 9 GLOBIGERINELLOIDES ASPERUS | 10 GLOBOROTALIA INFLATA | 11 GLOBOROTALITES CONICUS | 12 GLOBOTRUNCANA BULLOIDES | 13 GLOBOTRUNCANA CF. ARCA | 14 GLOBOTRUNCANELLA HAVANENSIS | 15 GLOMOSPIRA GORDIALIS | 16 GUEMBELITRIA CRETACEA | 17 HAPLOPHRAGMOIDES SP. | 18 HETEROHELIX "PRAESEMICOSTATA" | 19 HETEROHELIX GLOBULOSA | 20 HETEROHELIX SP. | 21 REUSSELLA CF. SZAJNOCHAE | 22 RUGOGLOBIGERINA SP. | 23 RUGOTRUNCANA SP. | 24 SPIROPLECTAMMINA GRZYBOWSKII | 25 SUBBOTINA CF. INCONSTANS | 26 SUBBOTINA TRILOCULINOIDES | 27 XX OTOLITH | 28 ANOMALINOIDES CF. PERTHENSIS | 29 ARCHAEOGLOBIGERINA CRETACEA | 30 BOLIVINA INCRASSATA | 31 BULIMINA TRIANGULARIS | 32 CLAVULINA SP. | 33 DENTALINA SP. | 34 DOROTHIA CONICULA | 35 DOROTHIA OXYCONA | 36 GAVELINELLA BECCARIFORMIS | 37 GAVELINELLA SP. | 38 GLOBOROTALITES ACUTIMARGINATA | 39 GLOBOTRUNCANA CF. LAPPARENTI | 40 GLOMOSPIRA CHARDIDES | 41 HYPERAMMINA SP. | 42 INDETERMINABLE ARENACEOUS SPECIMENS | 43 MASSILINA GINGINENSIS | 44 PSEUDOUVIGERINA PLUMMERAE | 45 RUGOGLOBIGERINA CF. MILAMENSIS | 46 SIPHOGENERINA ELEGANTA | 47 XX RADIOLARIA | 48 AMMODISCUS CRETACEUS | 49 BULIMINA CF. JACKSONENSIS | 50 FRONDICULARIA SP. | 51 GLOBIGERINELLOIDES MESSINAE | 52 GLOBOTRUNCANELLA PSCHADAE | 53 HEDBERGELLA MONMOUTHENSIS | 54 PSAMMOSPHAERA CF. PARVA | 55 PULLENIA REUSSI | 56 RZEHAKINA EPIGONA | 57 XX BONE CHIPS | 58 XX TEETH | 59 BOLIVINOIDES DRACO | 60 CIBICIDES SP. | 61 GLOBIGERINELLOIDES SP. | 62 GUBLERINA CUVILLIERI | 63 HEDBERGELLA SP. | 64 AMMOBACULITES SP. | 65 ANDAMOOKIA DAVENPORTENSIS | 66 BATHYSIPHON SP. | 67 DOROTHIA CF. FILIFORMIS | 68 HAPLOPHRAGMOIDES CF. HENDERSONENSE | 69 PSEUDOBOLIVINA VARIANA | 70 TEXTULARIA SP. | 71 TROCHAMMINA CF. SUBINFLATA | 72 TROCHAMMINA MINUTA | 73 TROCHAMMINA SP. | 74 VERNEUILINOIDES CF. KANSASENSIS |
|---|---|---

SLOPE, WEST OF PERTH

FREMANTLE CANYON, NORTH WALL

← WEST EAST →

FREMANTLE CANYON – SOUTH WALL

← WEST EAST →

CANYON SEQUENCE (With dredge numbers)

EXISTING STRATIGRAPHIC UNITS

REFERENCES

Notes:
The Cainozoic time scale and foraminiferal zonations are reproduced from Apthorpe, M. (1988). The Cainozoic time scale is after Berggren et al. (1985). Foraminiferal zonation *1 is after Blow (1969). Foraminiferal zonation W.O.P. is the Woodside Offshore Petroleum scheme for the North West Shelf of Australia, as summarized by Wright (1973a), and Heath and Apthorpe (1981, 1984). The Cretaceous time scale is after Harland, W.B. and others. The Cretaceous foraminiferal zonation is after Wright (1973b) as published in part by Wright and Apthorpe (1976).

Samples of indeterminable age, or of undifferentiated Eocene age, do not appear on this diagram.

← 007-1, 2
← 007-3

← 014-4,7,11
?← 022-4
← 008-1
← 008-2
← 009-1
← 019-3
018-2 ← 019-1
021-1
003-4?
003-3,8
003-7
003-2
003-9
021-11
?← 023-1C
← 018-1 ← 019-4
022-1
?← 022-2
003-6
020-5
?← 020-6
← 017-1
← ?014-14
020-7
021-5
← 014-3
← 014-8
← 004-1, 2, 3
← 005-7, 8, 9
← 022-3
← 016-2
020-8
← 017-3??
reworking
← 014-10, 12
020-9, 10, 11
014-5
023-2
Early Cretaceous

007
007
? ? ? ?
008, ?022, ?014
008, 009
003, 019 & others possibly this age
no definite datings in this interval
021, 018, 019
? ? ?
? many samples ?
020
? ? ?
? ? ?
? ? ? ?

various formations
Wadjemup Formation — Cockbain & Hocking (1989) revising Quilty (1978)
Stark Bay Formation — after Quilty (1978)
Challenger Formation — Cockbain & Hocking (1989) after Quilty (1978)
Quilty (1978)
Porpoise Bay Formation — Cockbain & Hocking (1989) after Quilty (1978)
possibly a new unit (Fremantle Canyon Limestone; this report)
Kings Park Formation — Quilty (1978) (plus other authors)
Breton Marl — Shafik (1989)
Lancelin Formation — McNamara et al (1988) Davidson & Moncrieff (1989)

Record 1989/23

23/OWA/223

Time-stratigraphic distribution of foraminifera from dredge samples of the Fremantle Canyon.

PRELIMINARY

SOUTH PERTH BASIN STUDY

NEOCOMIAN UNCONFORMITY

TIME STRUCTURE MAP

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS,
DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY,
DEPARTMENT OF RESOURCES AND ENERGY, CANBERRA, AUSTRALIA

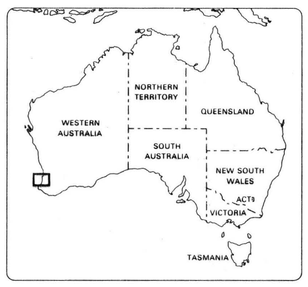
M. Swift

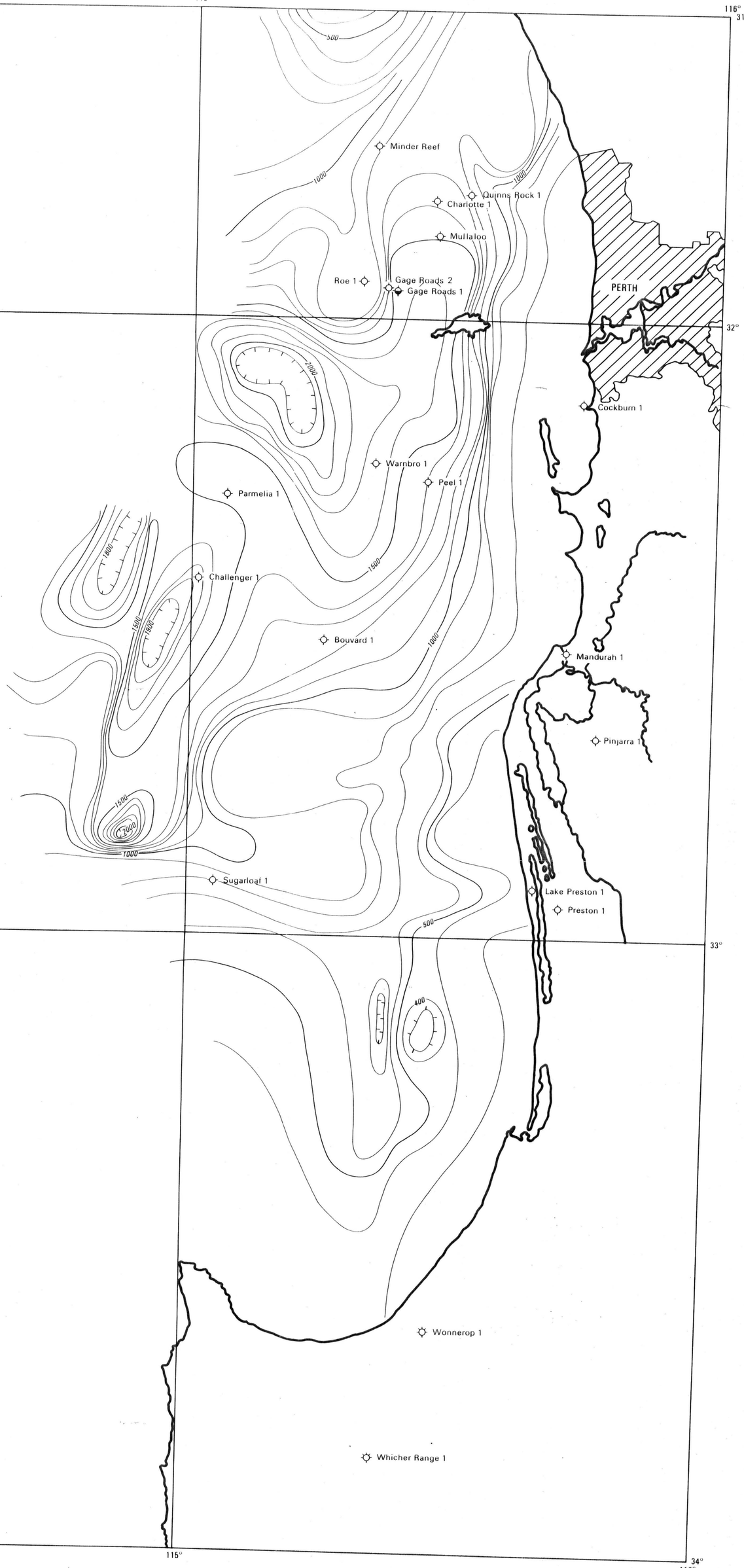
Published by the Bureau of Mineral Resources, Geology and Geophysics,
Department of Resources and Energy, Canberra, Australia
Drawn by Marine Division, Publications Sub-Section

SCALE 1 : 500 000

0 — 50 km

AUSTRALIAN MAP GRID ZONE 50
TRANSVERSE MERCATOR PROJECTION
CONTOUR INTERVAL 100 MILLISECONDS





Scale 1 : 500 000

0 — 10 — 20 — 30 — 40 — 50 Kilometres

Record 1989/23

Time structure contour map of the Neocomian unconformity.

23/OWA/224

PRELIMINARY

SOUTH PERTH BASIN STUDY

TOP OTOROWIRI MEMBER (LATE JURASSIC) TIME STRUCTURE MAP

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS,
DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY,
DEPARTMENT OF RESOURCES AND ENERGY, CANBERRA, AUSTRALIA

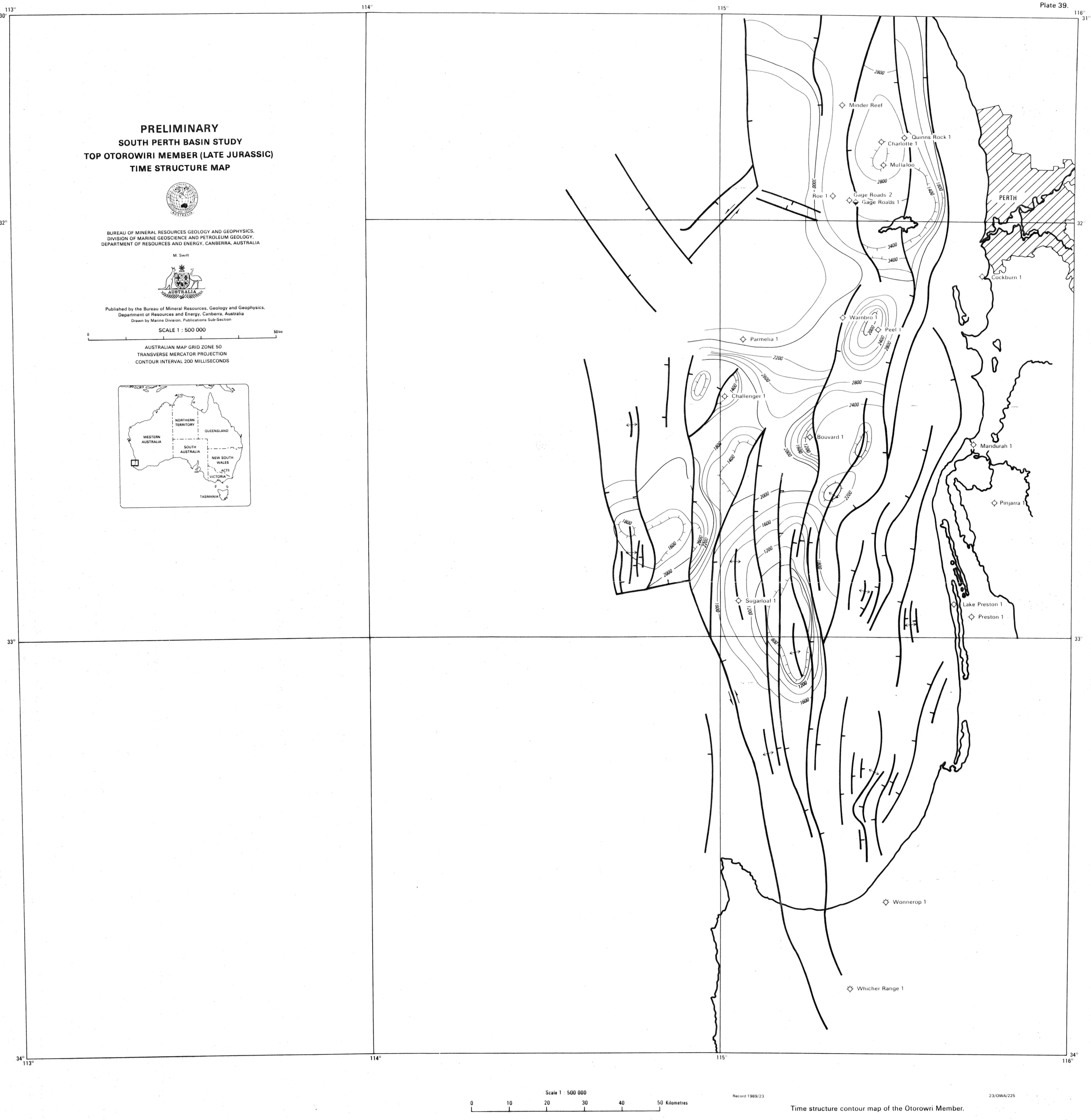
M. Swift

Published by the Bureau of Mineral Resources, Geology and Geophysics,
Department of Resources and Energy, Canberra, Australia
Drawn by Marine Division, Publications Sub-Section

SCALE 1 : 500 000

0 50 km

AUSTRALIAN MAP GRID ZONE 50
TRANSVERSE MERCATOR PROJECTION
CONTOUR INTERVAL 200 MILLISECONDS



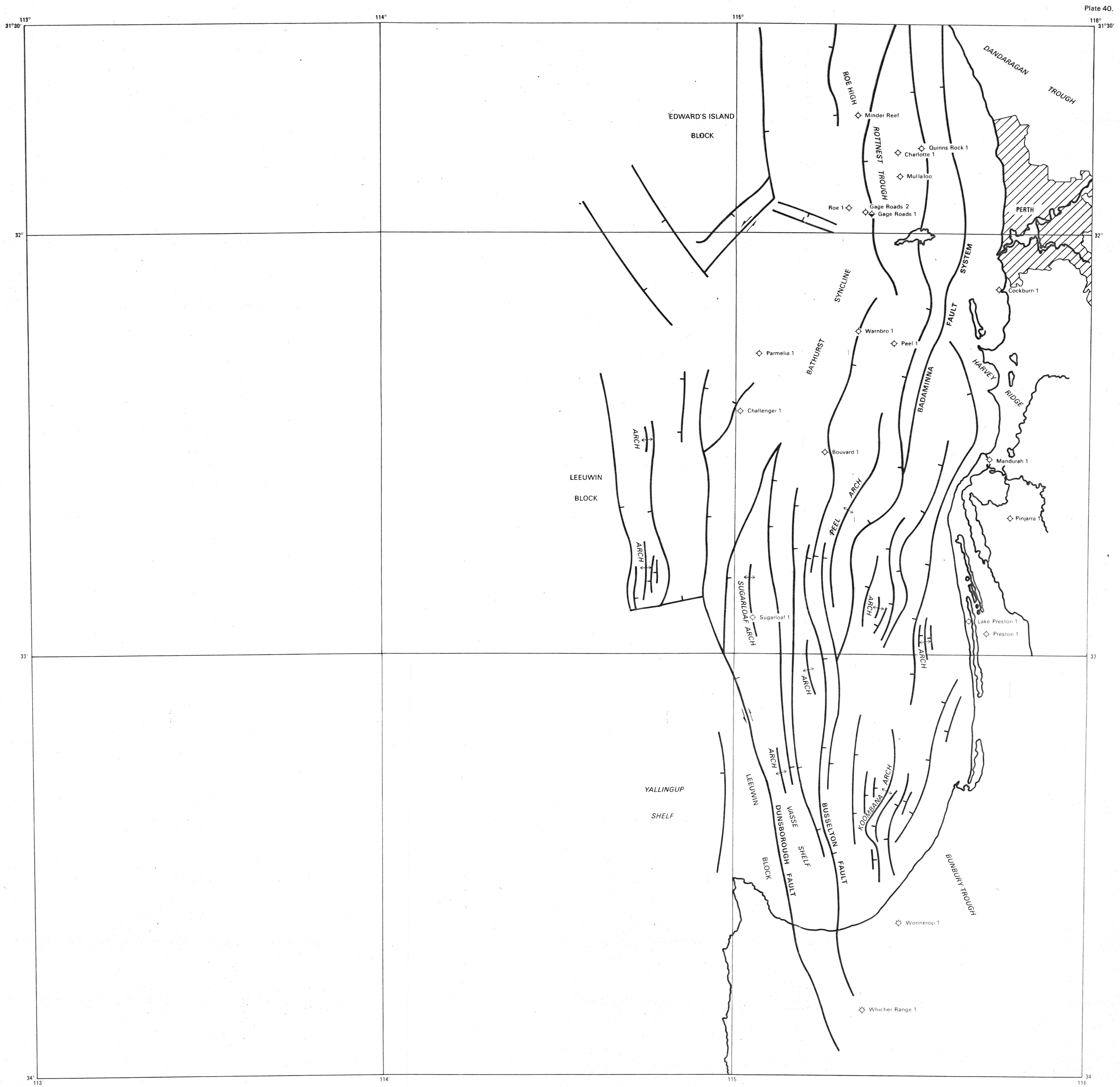
Scale 1 : 500 000

0 10 20 30 40 50 Kilometres

Record 1989/23

23/OWA/225

Time structure contour map of the Otorowri Member.



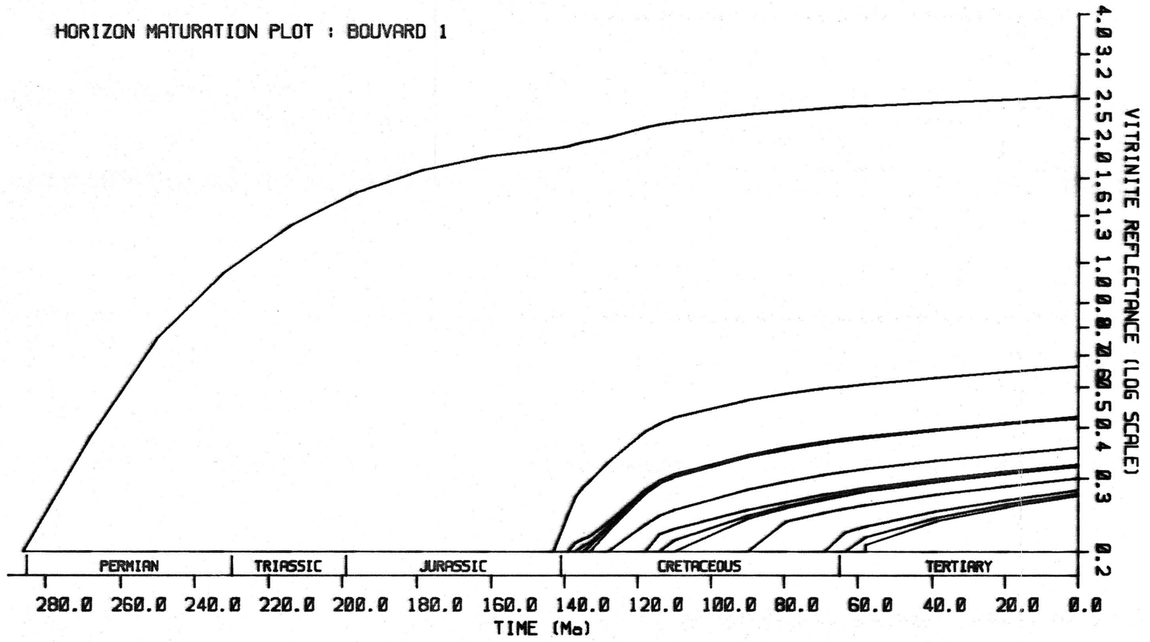
Scale 1 : 500 000

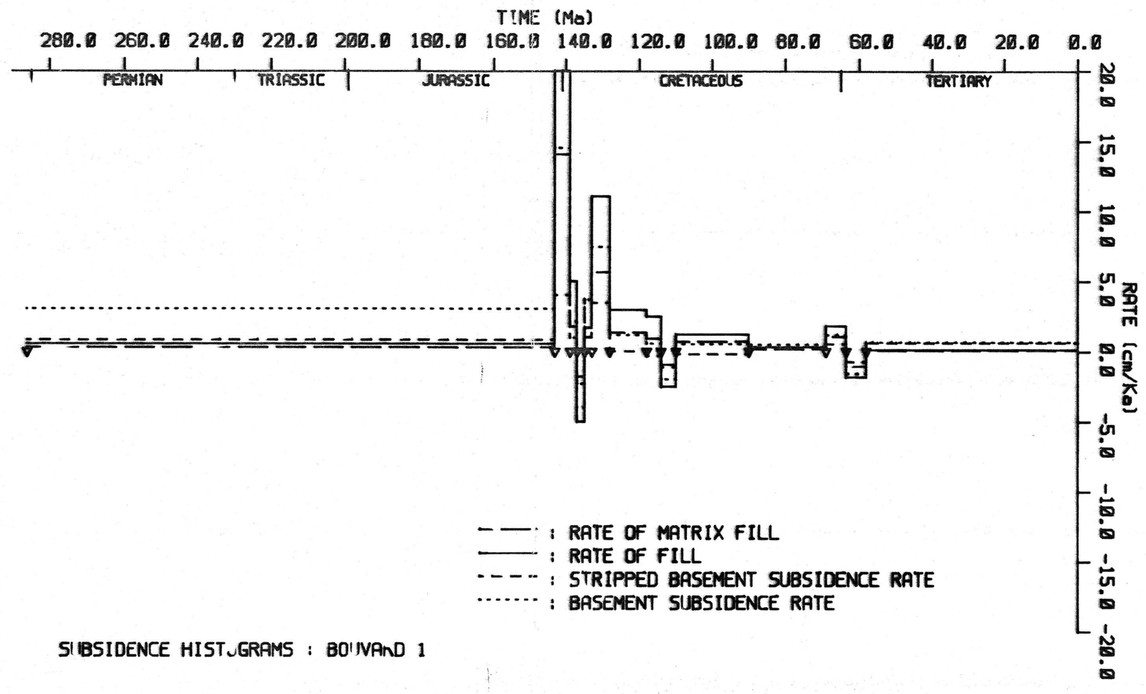
0 10 20 30 40 50 Kilometres

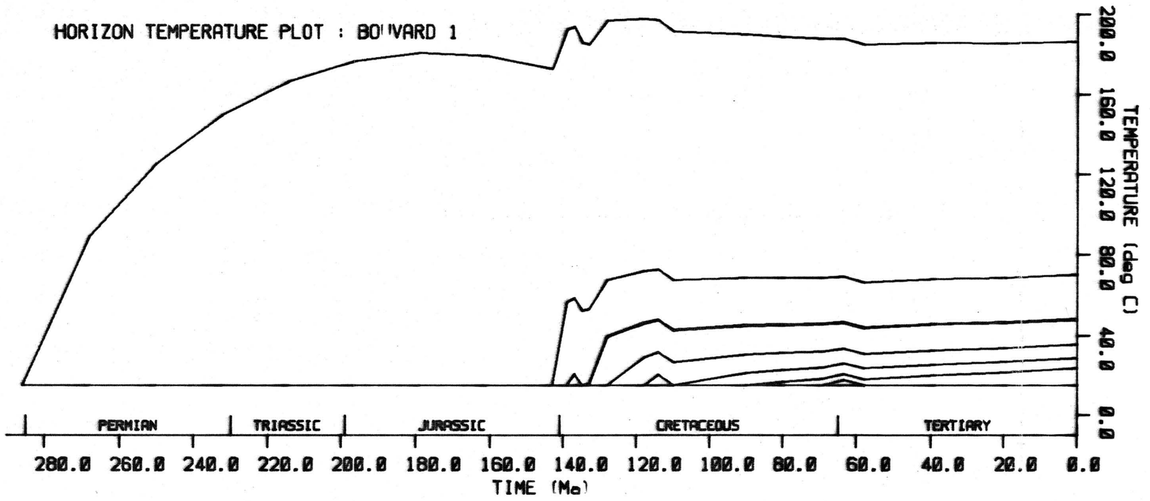
Record 1989/23

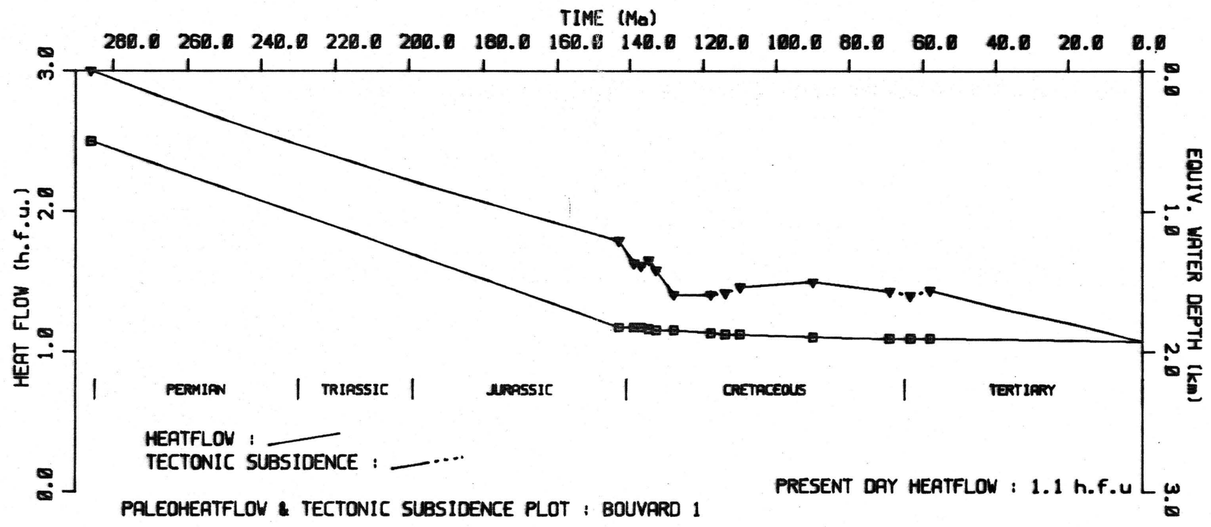
Major structural features of the Vlaming Sub-basin.

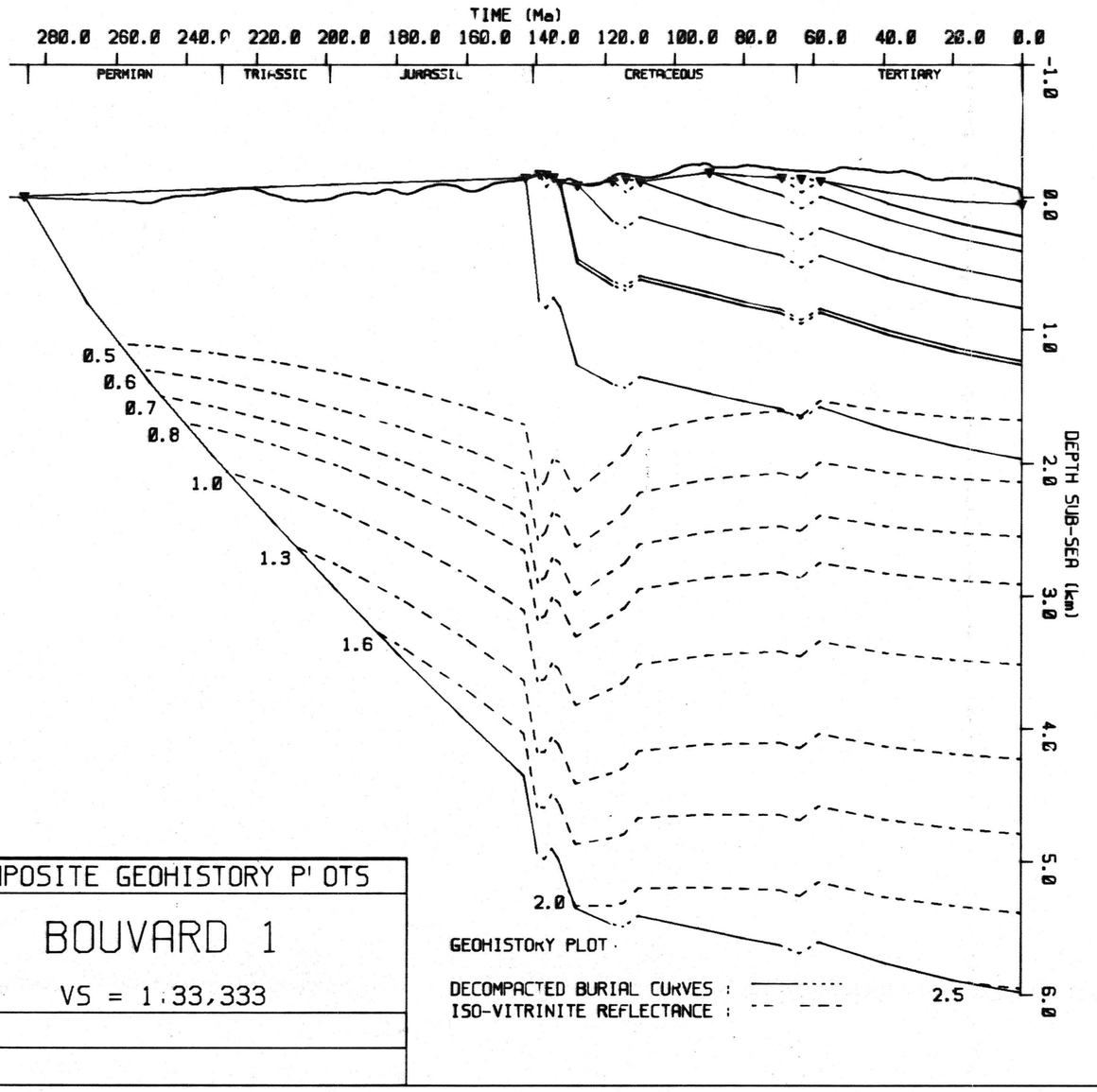
23 OWA/226

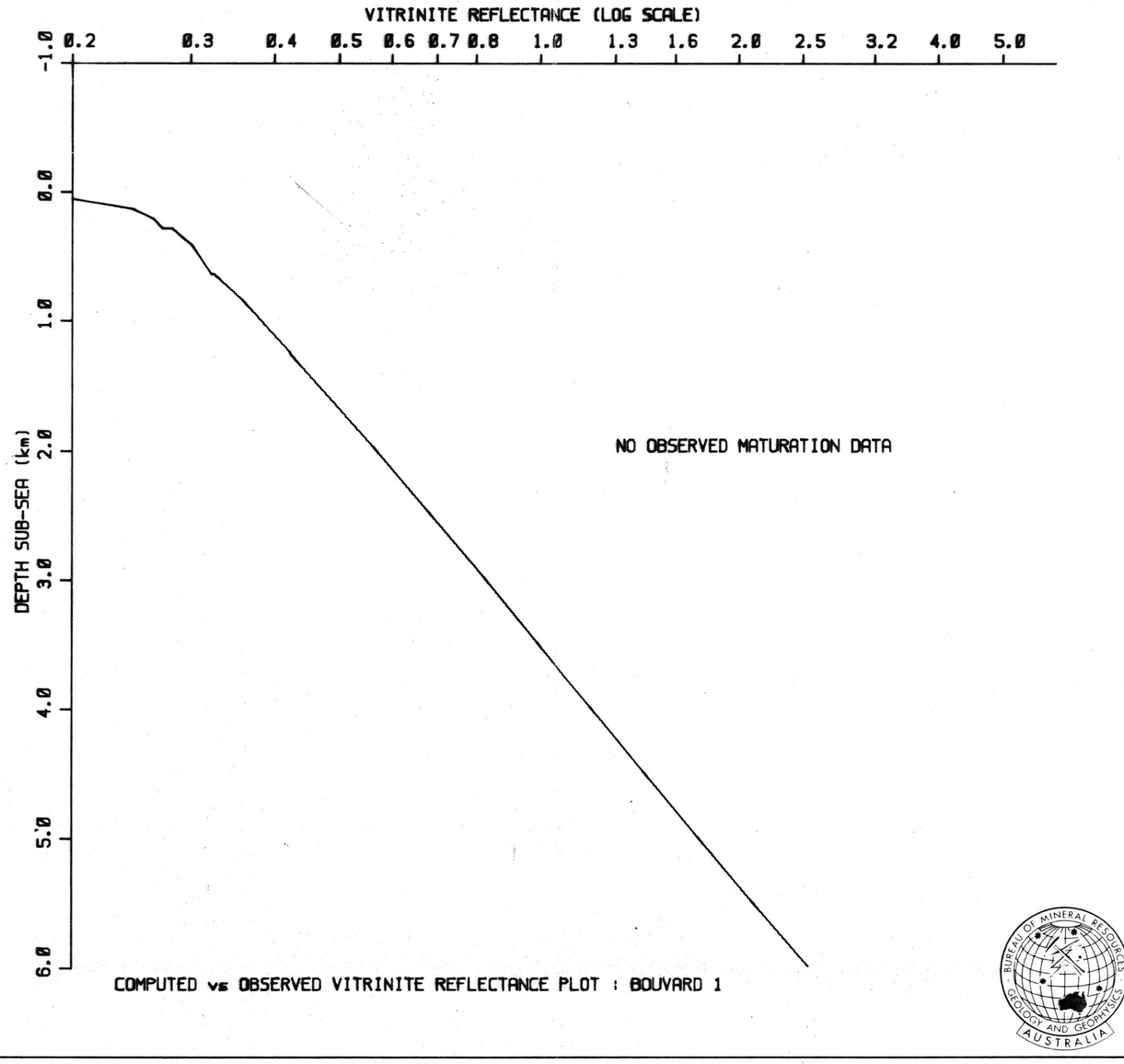










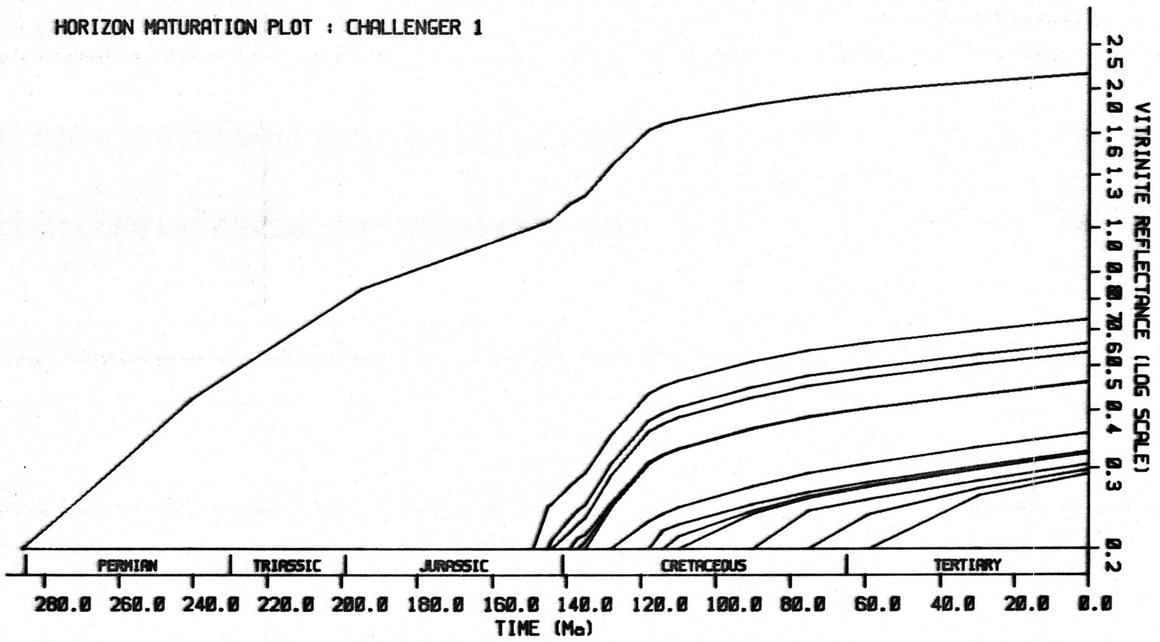


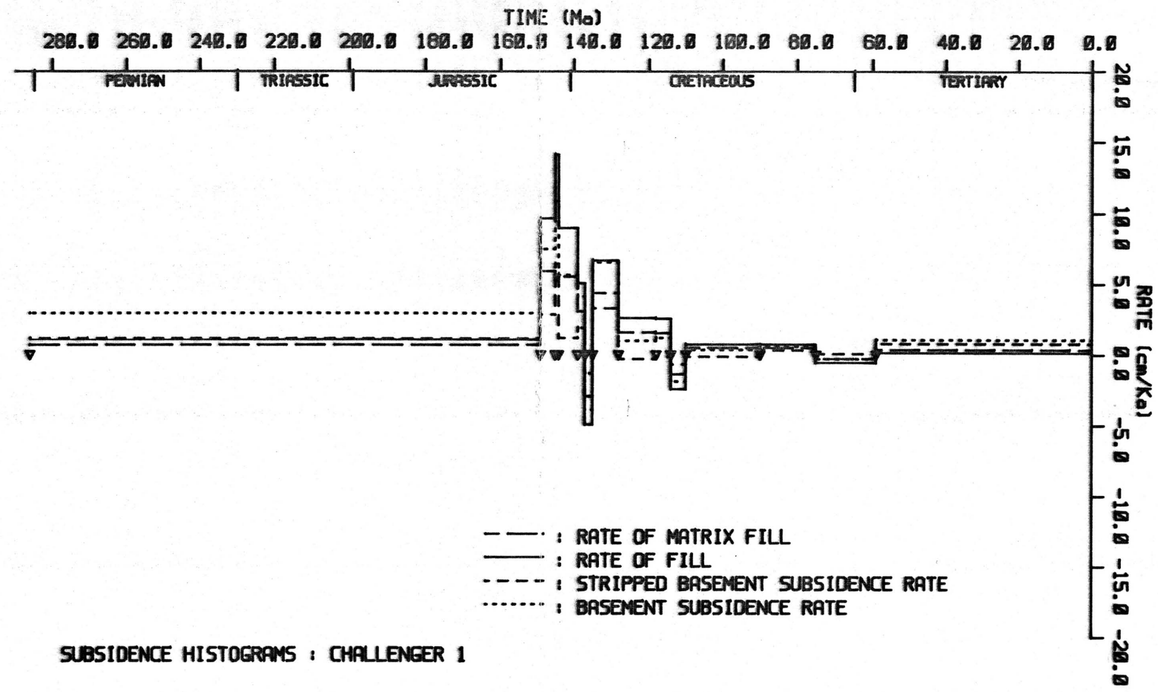
COMPOSITE GEOHISTORY PLOTS

BOUVARD 1

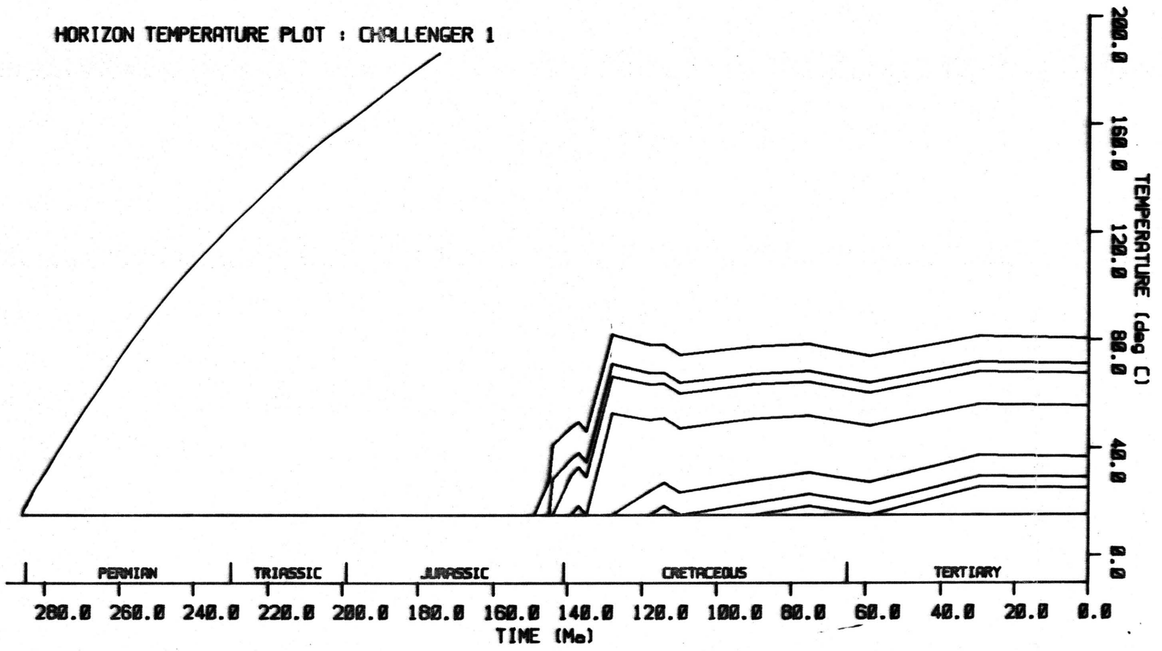
VS = 1:33,333

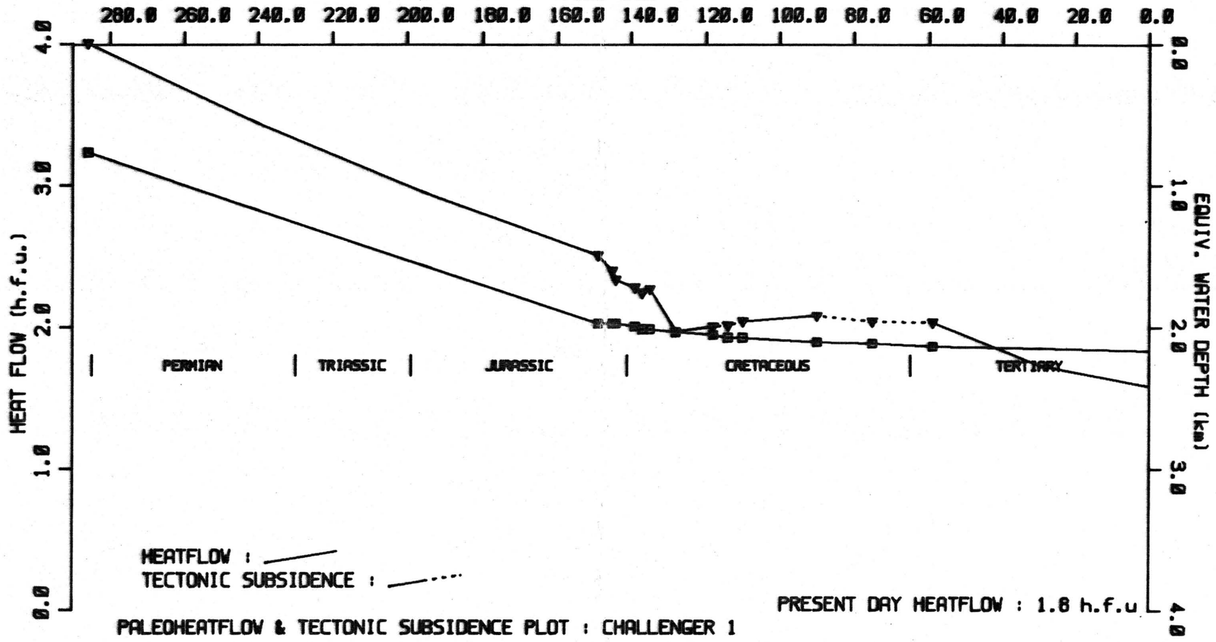
Record 1989/23



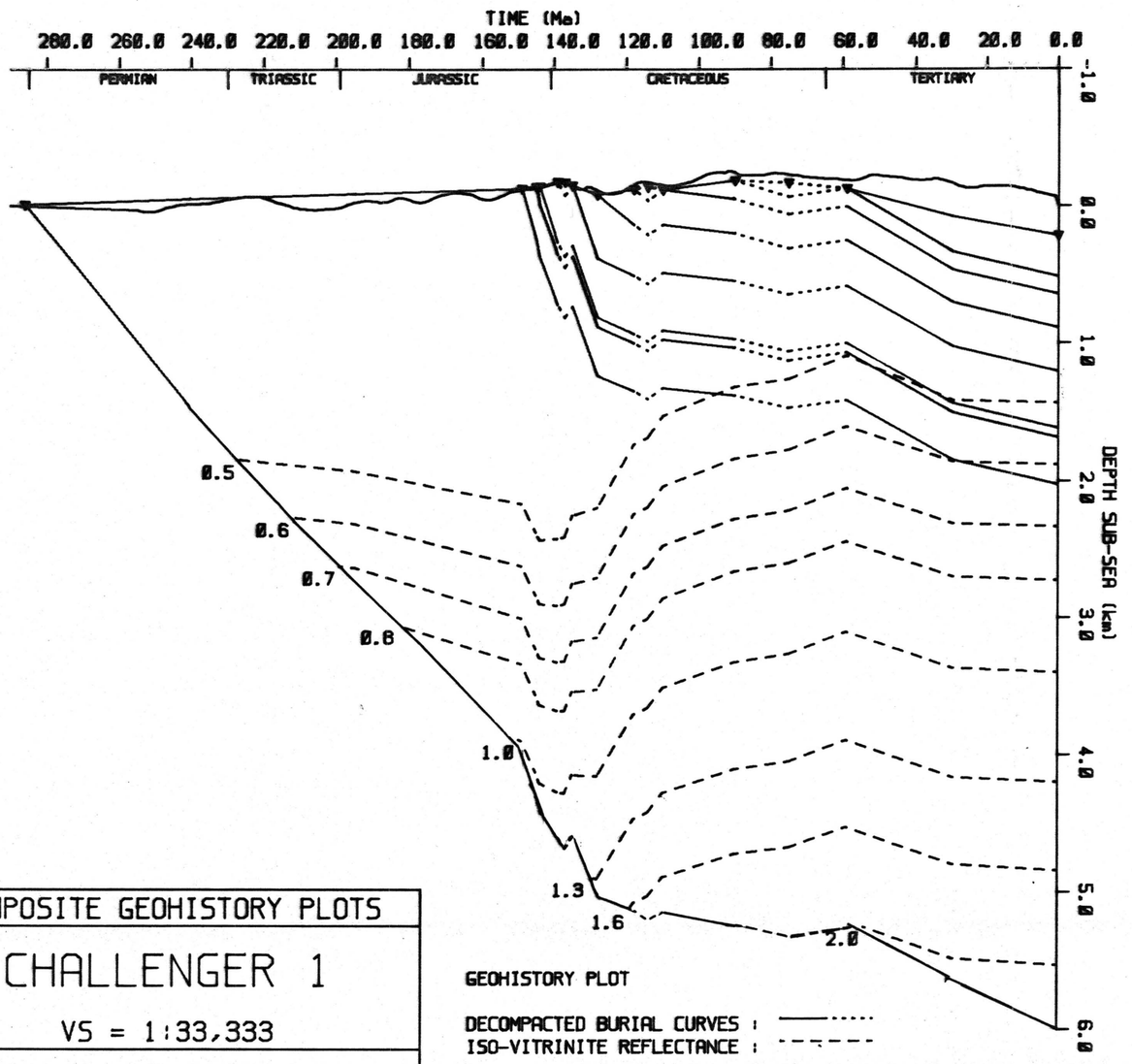


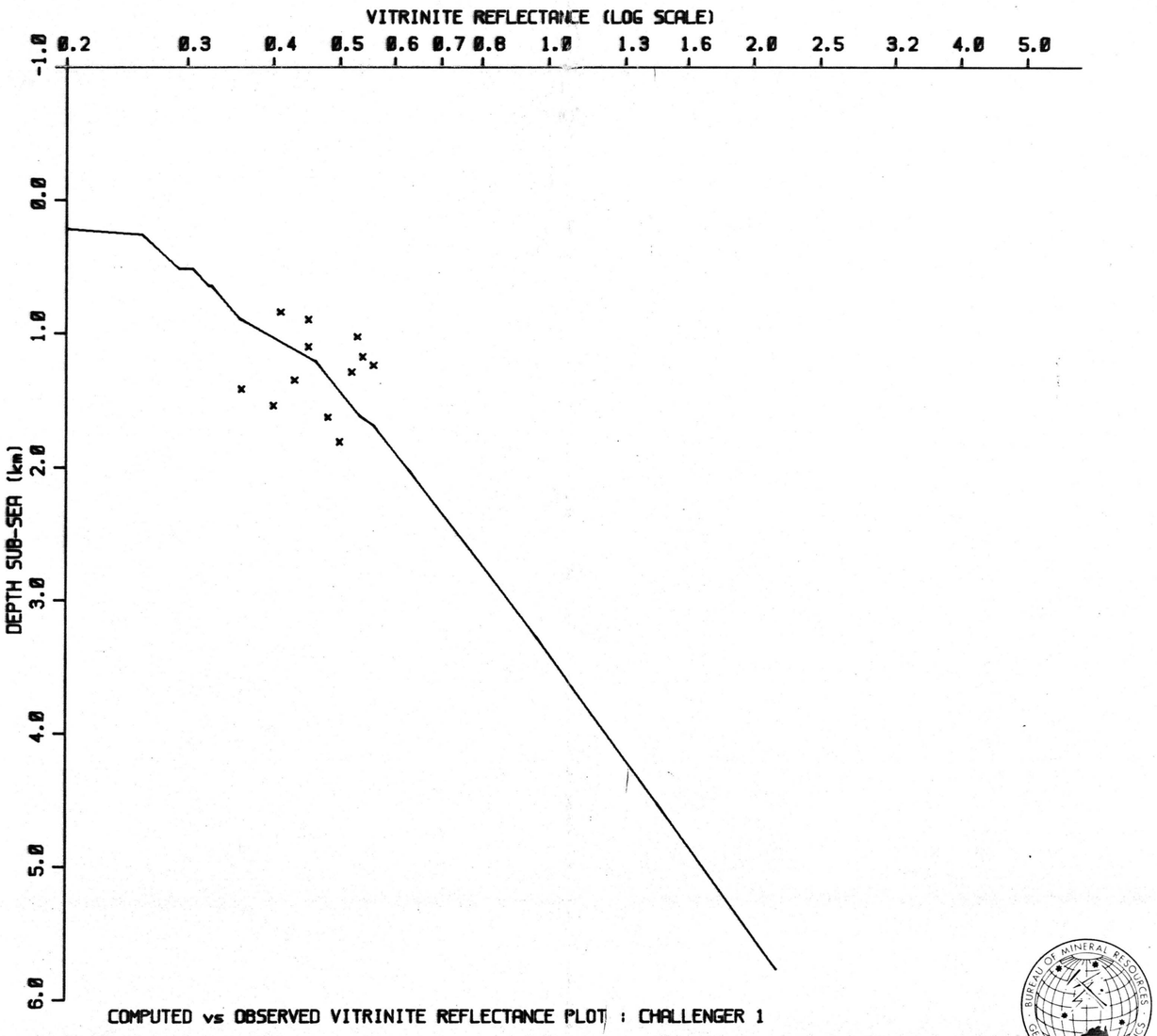
SUBSIDENCE HISTOGRAMS : CHALLENGER 1





PALEOHEATFLOW & TECTONIC SUBSIDENCE PLOT : CHALLENGER 1





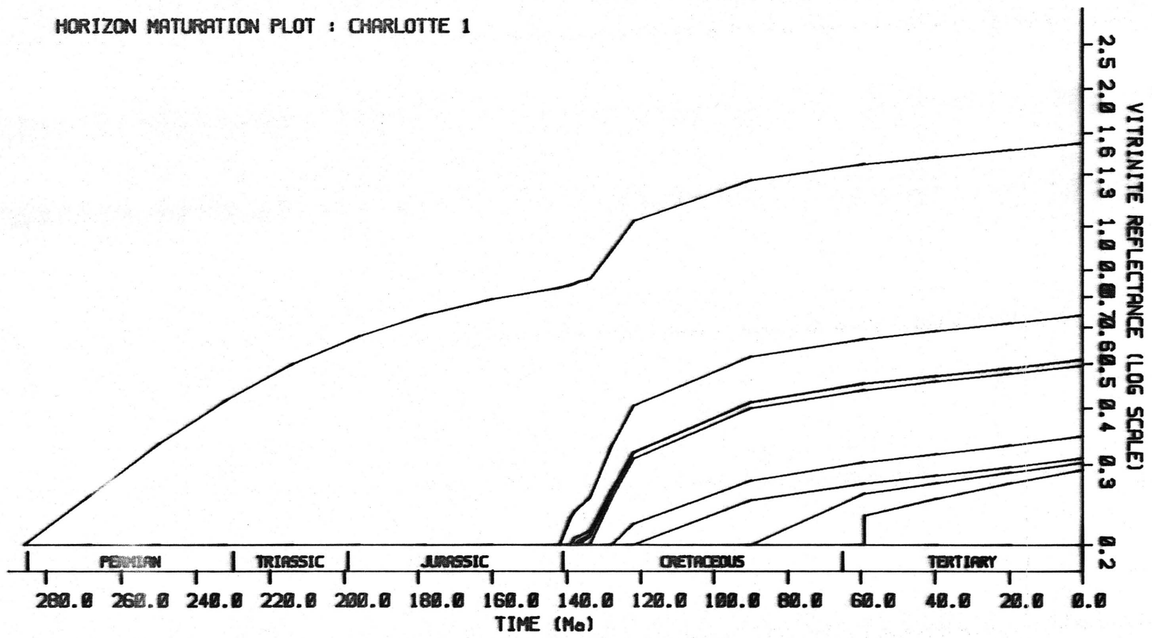
COMPUTED vs OBSERVED VITRINITE REFLECTANCE PLOT : CHALLENGER 1

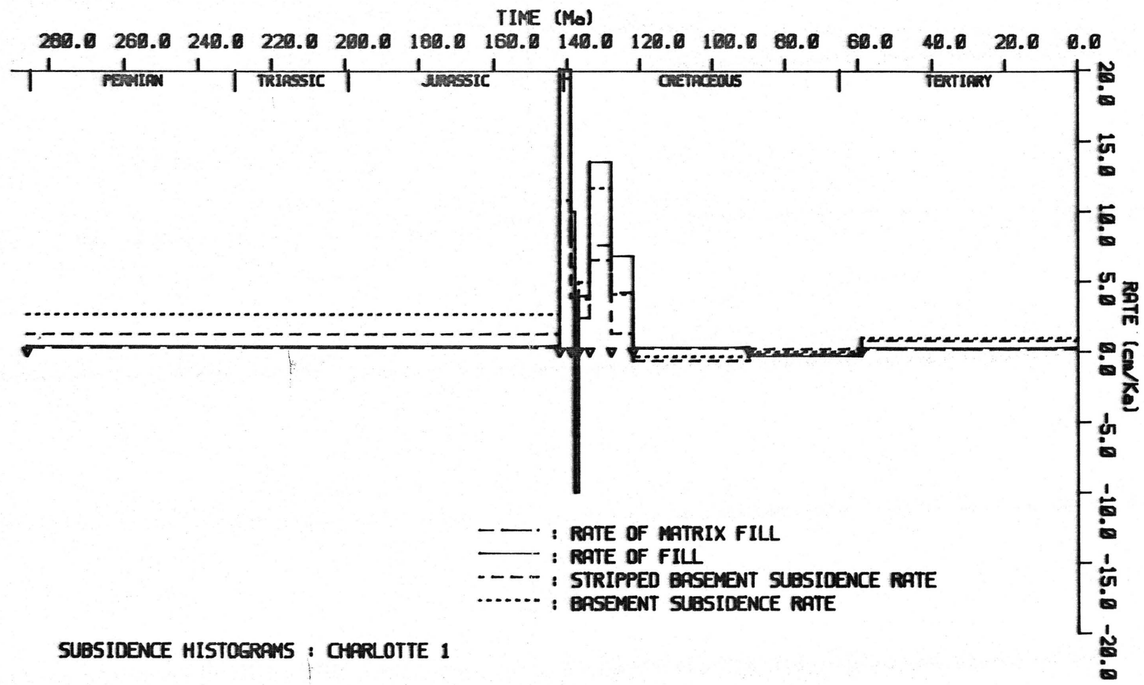
COMPOSITE GEOHISTORY PLOTS

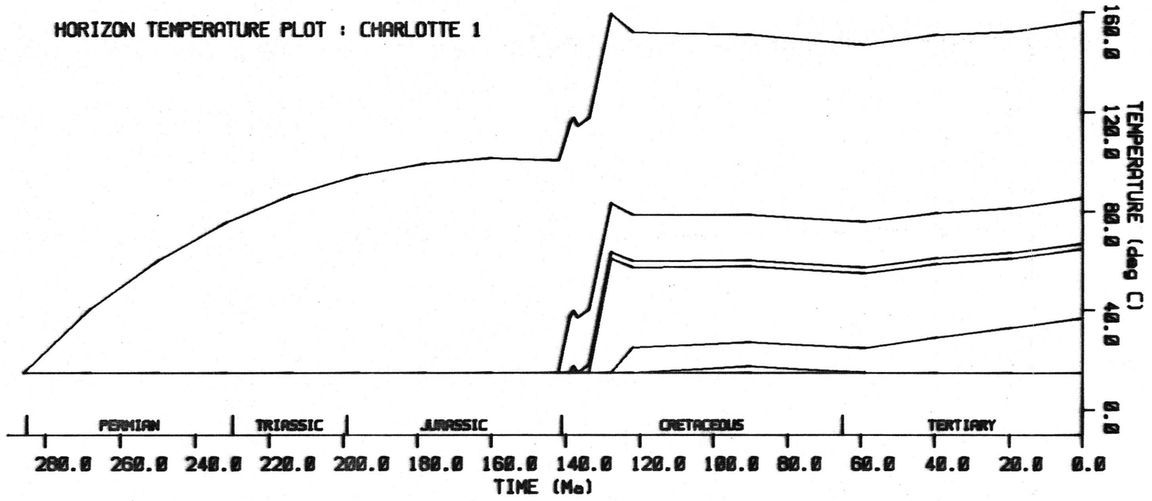
CHALLENGER 1

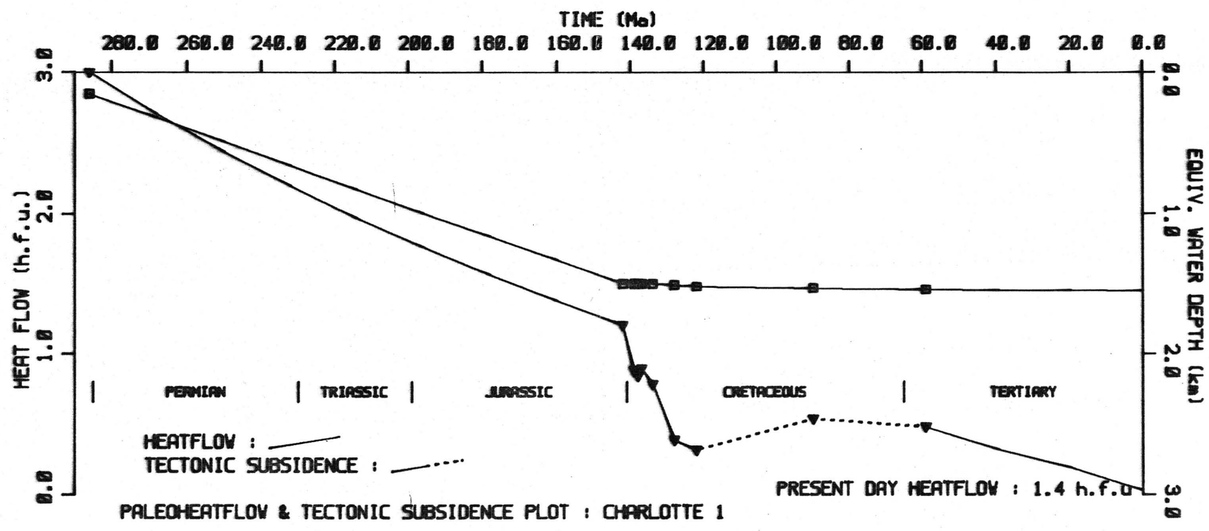
VS = 1:33,333

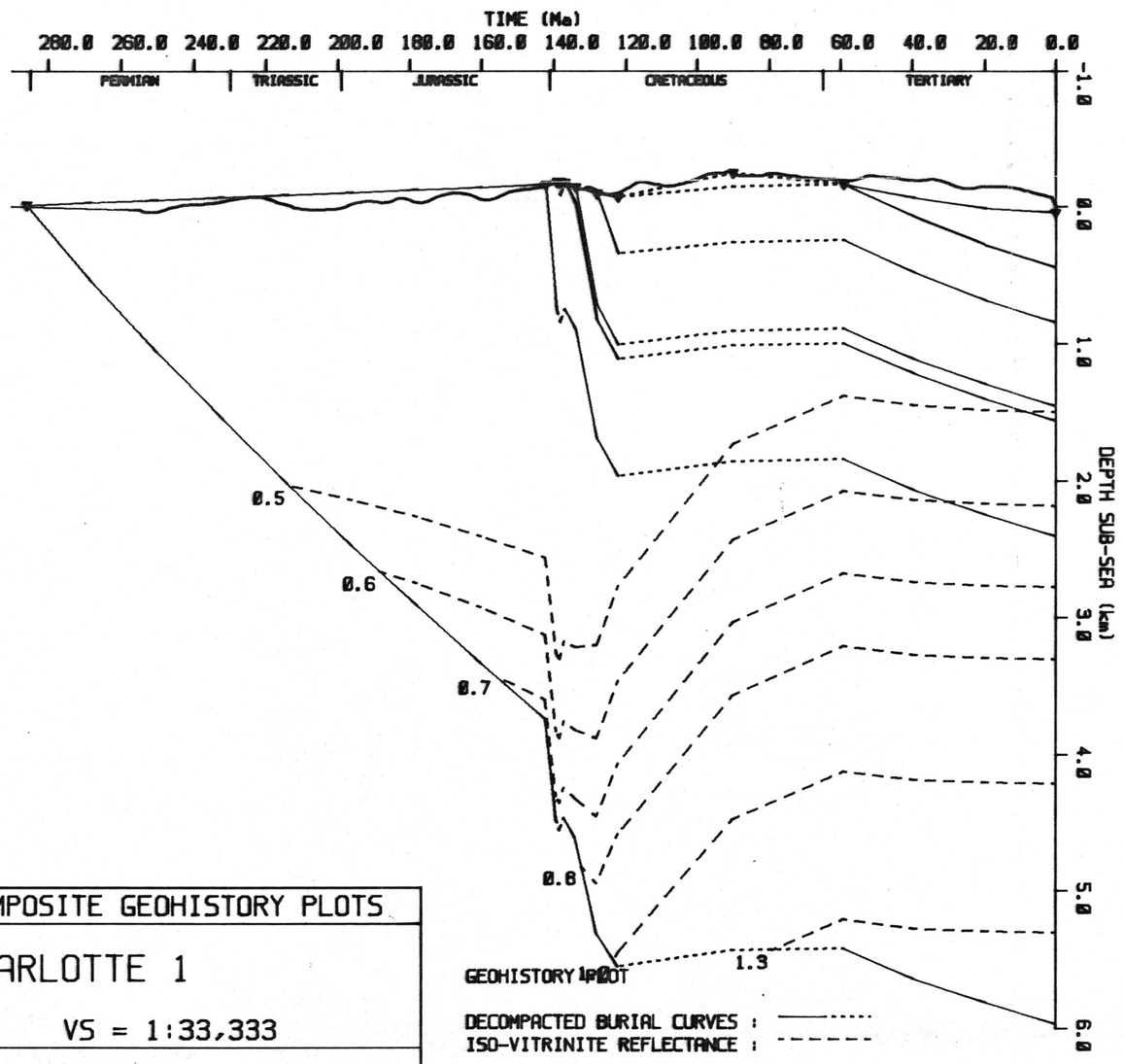
Record 1989/23

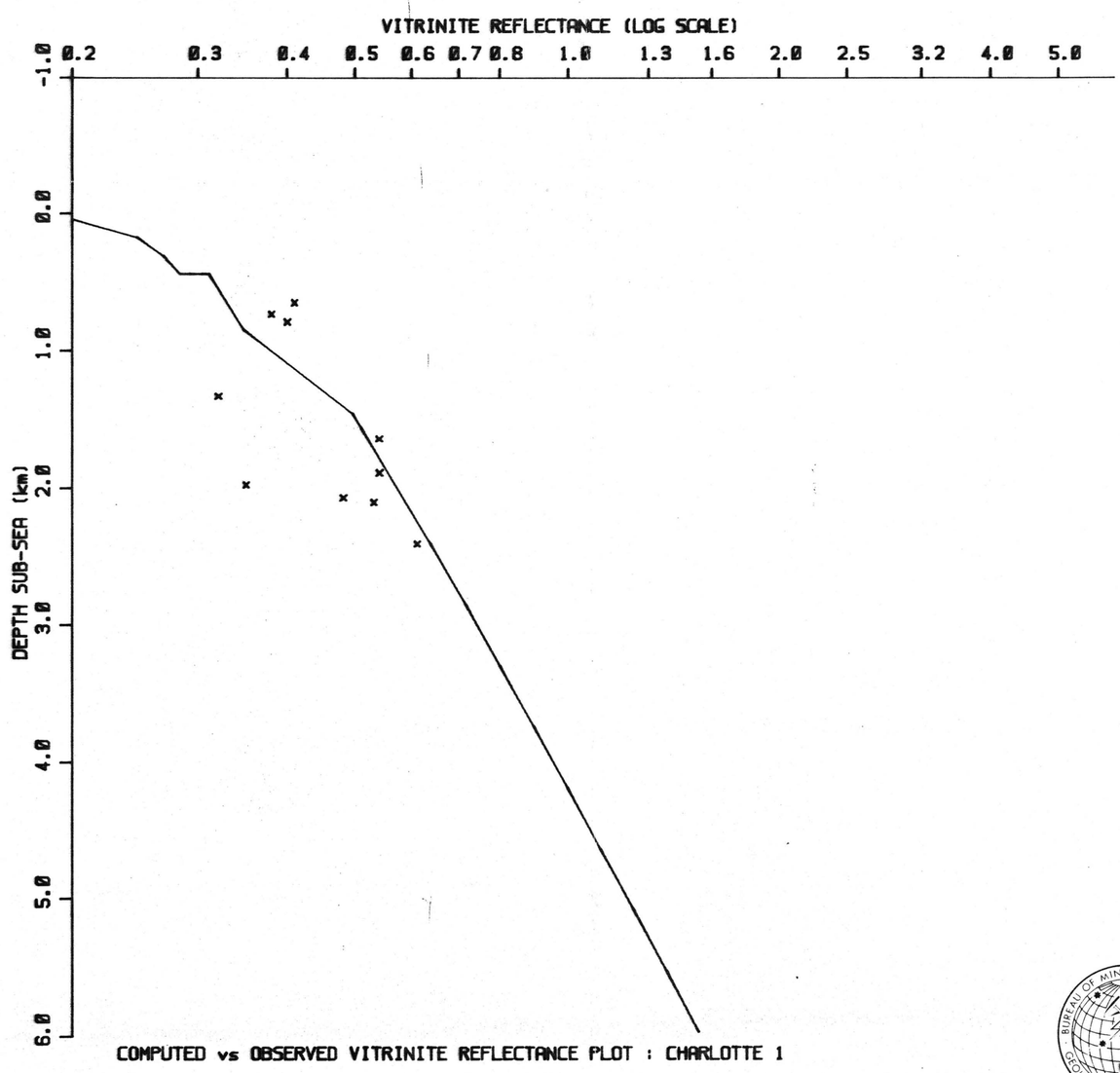










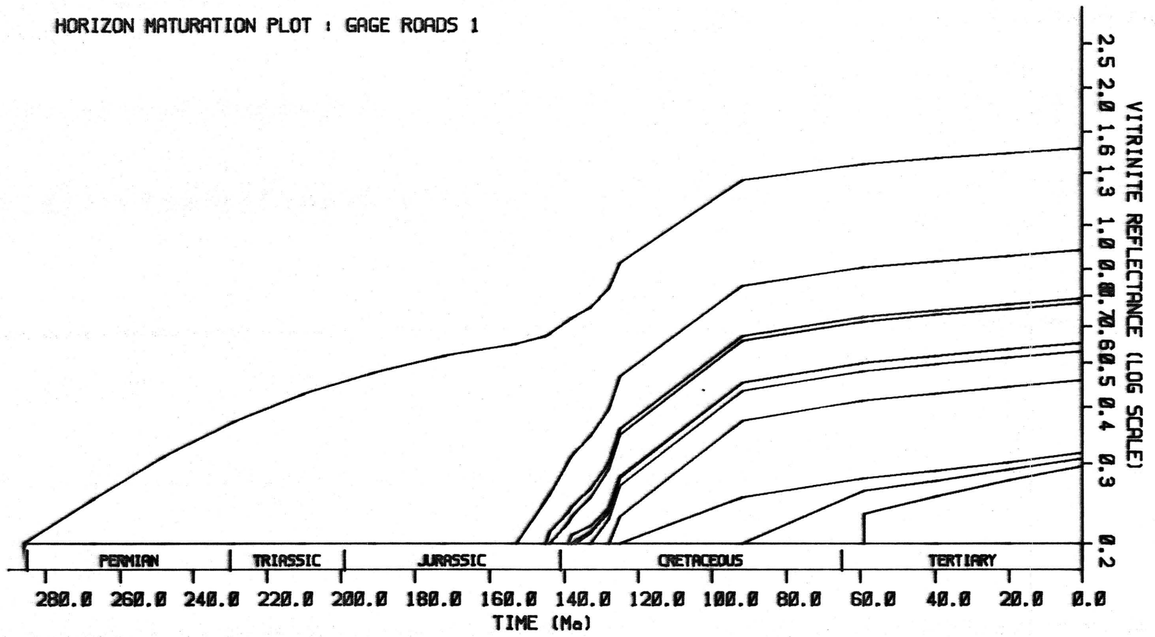


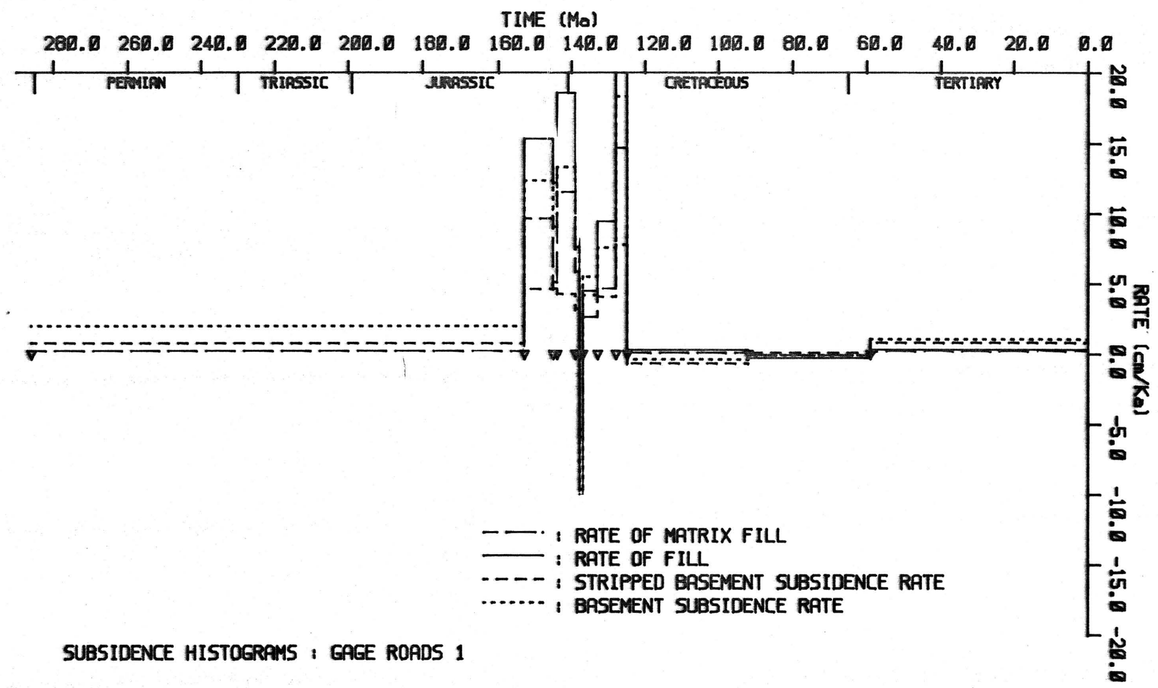
COMPOSITE GEOHISTORY PLOTS

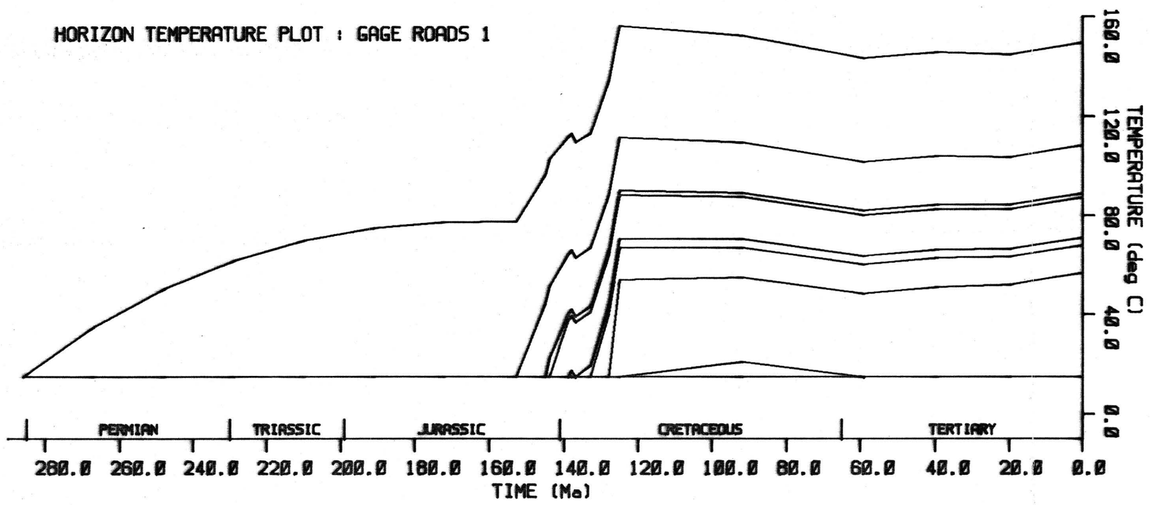
CHARLOTTE 1

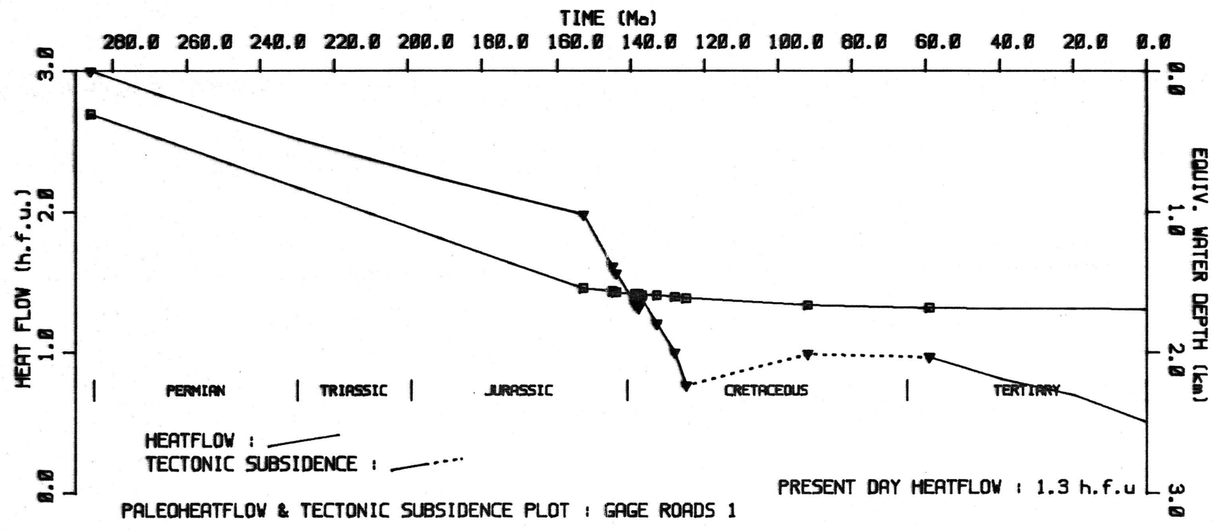
VS = 1:33,333

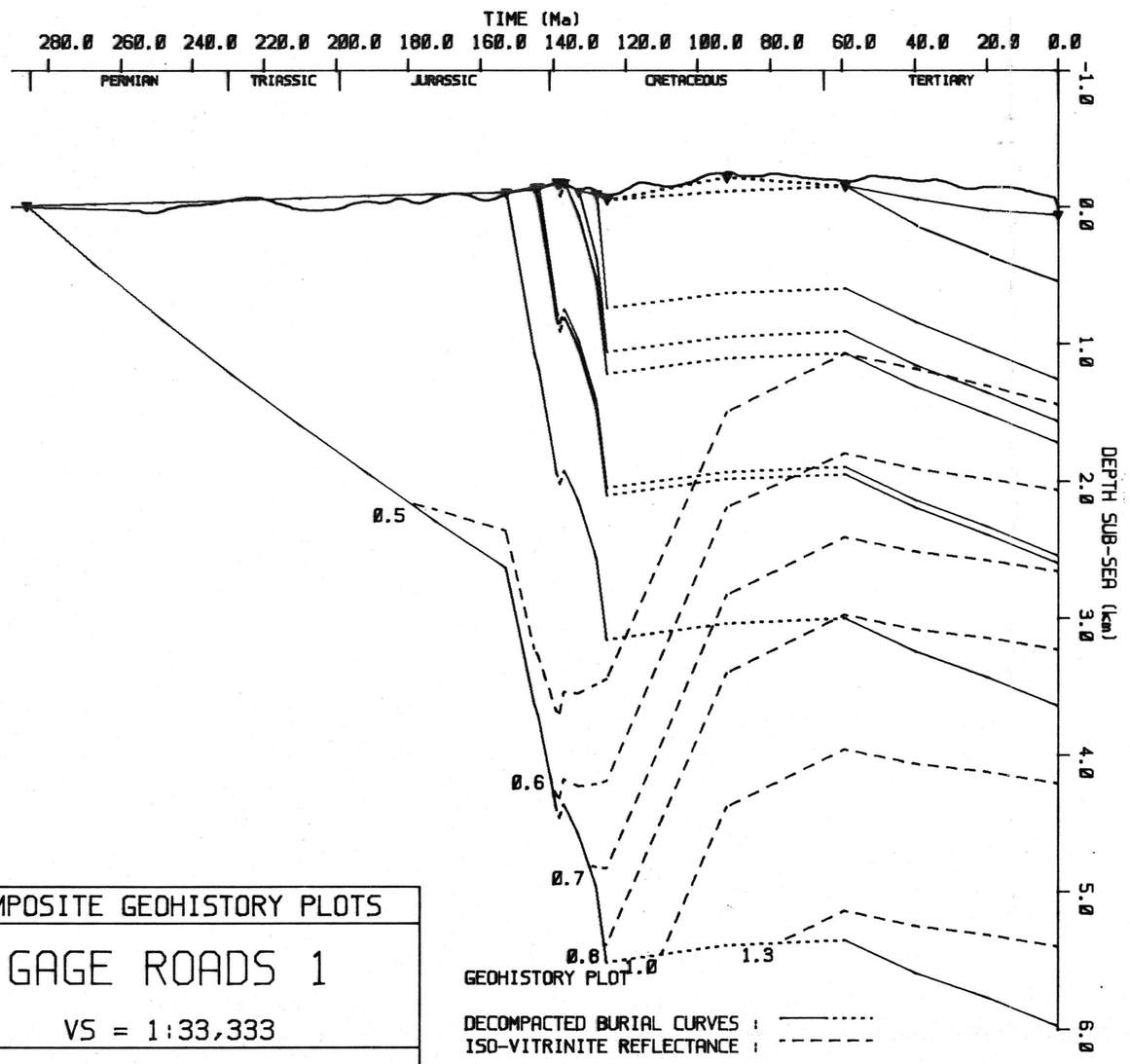
Record 1989/23

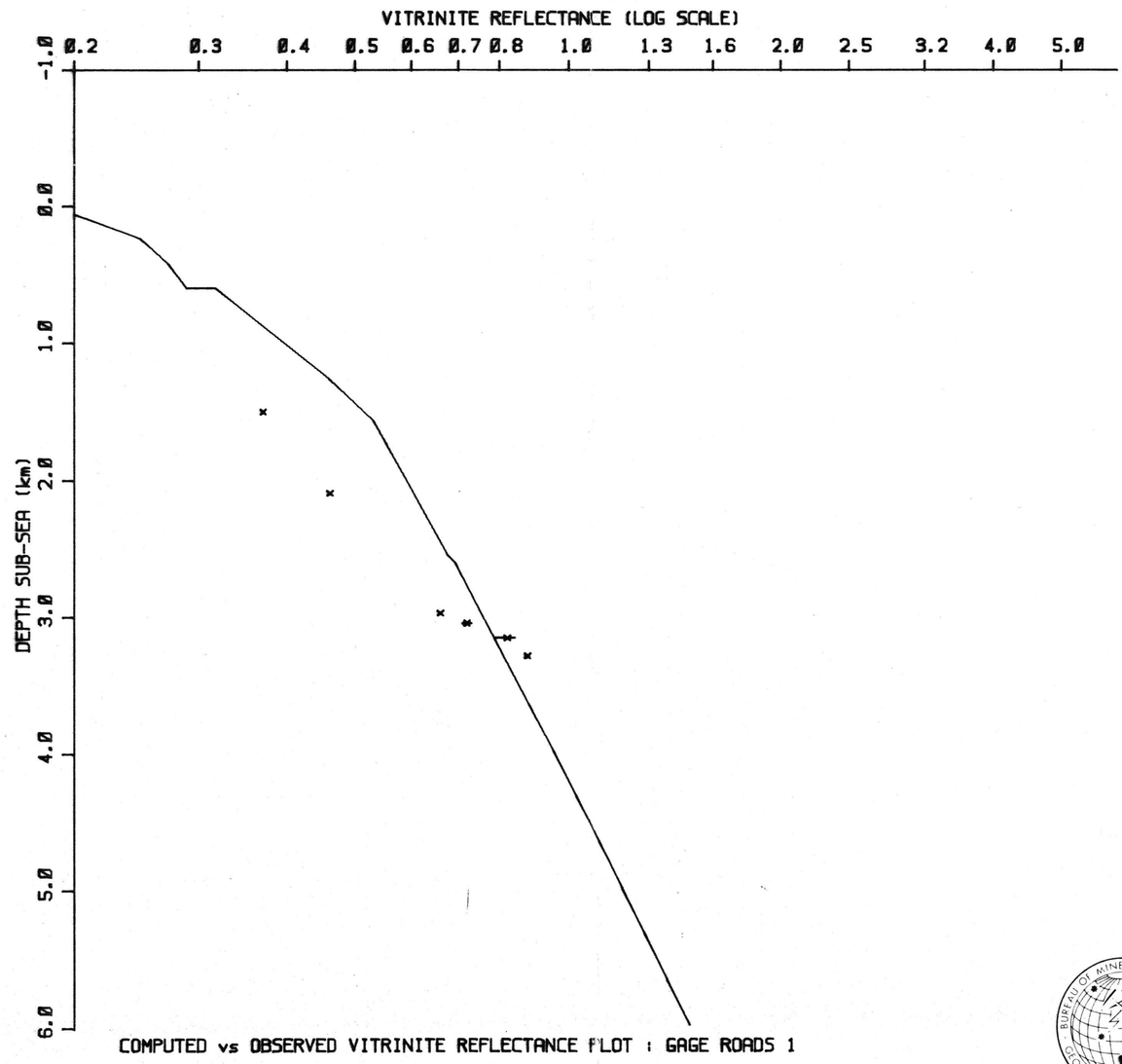










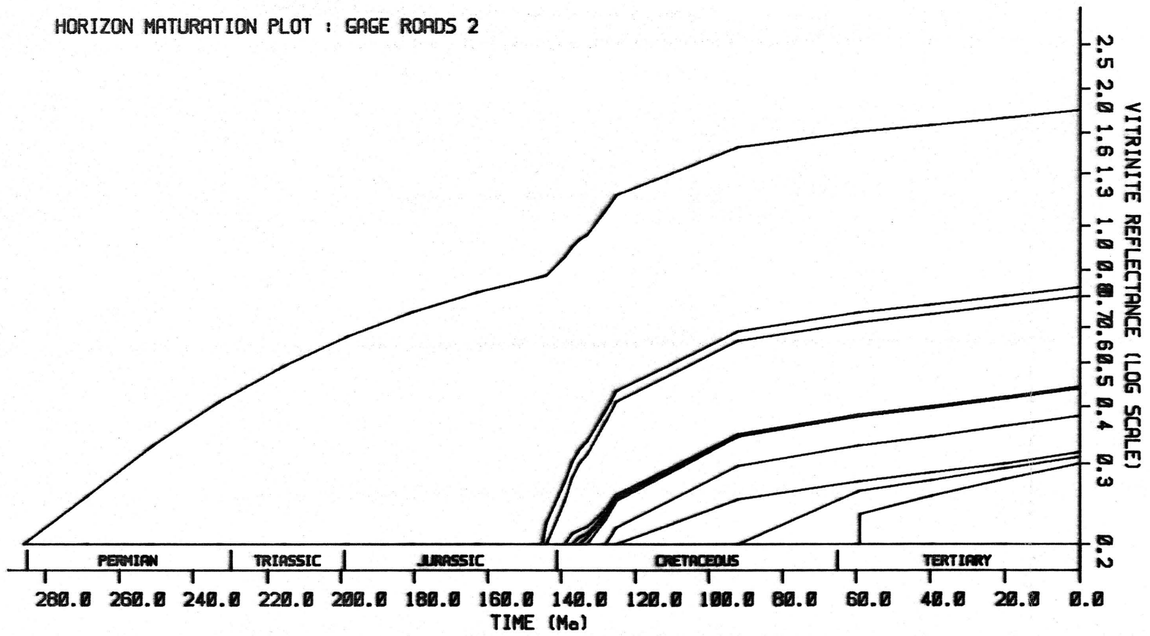


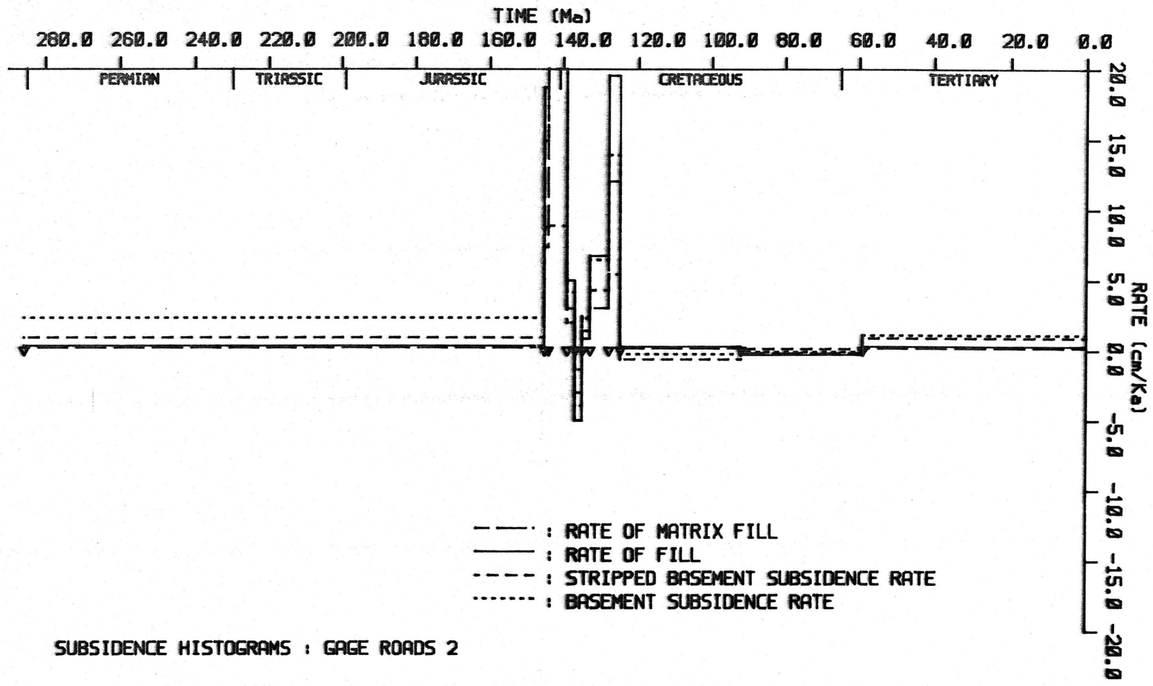
COMPOSITE GEOHISTORY PLOTS

GAGE ROADS 1

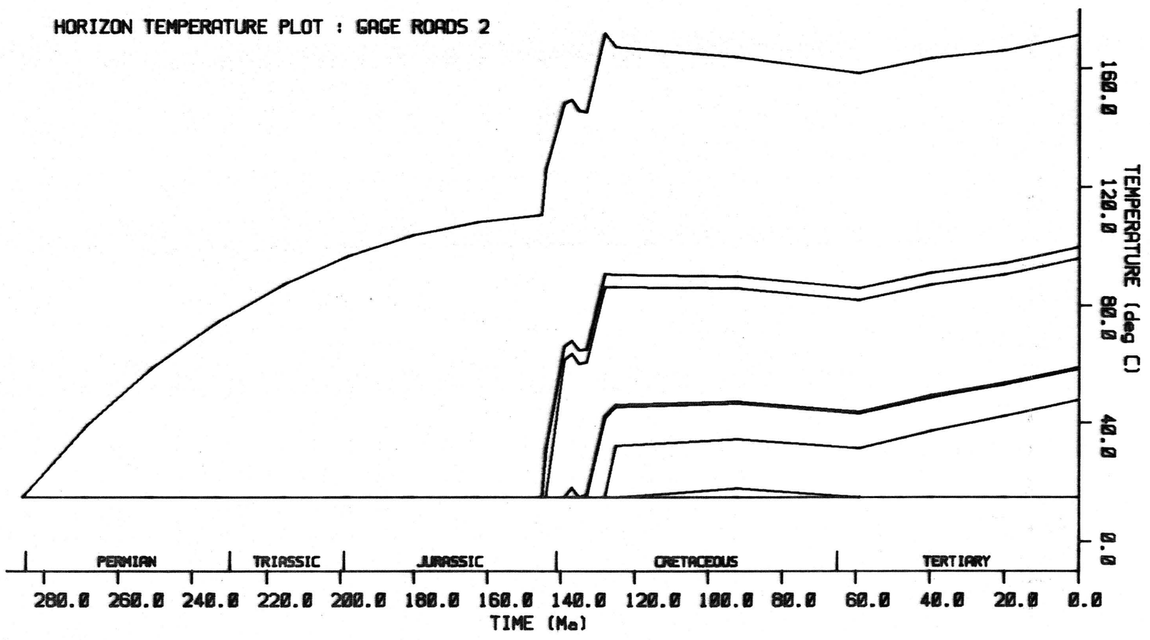
VS = 1:33,333

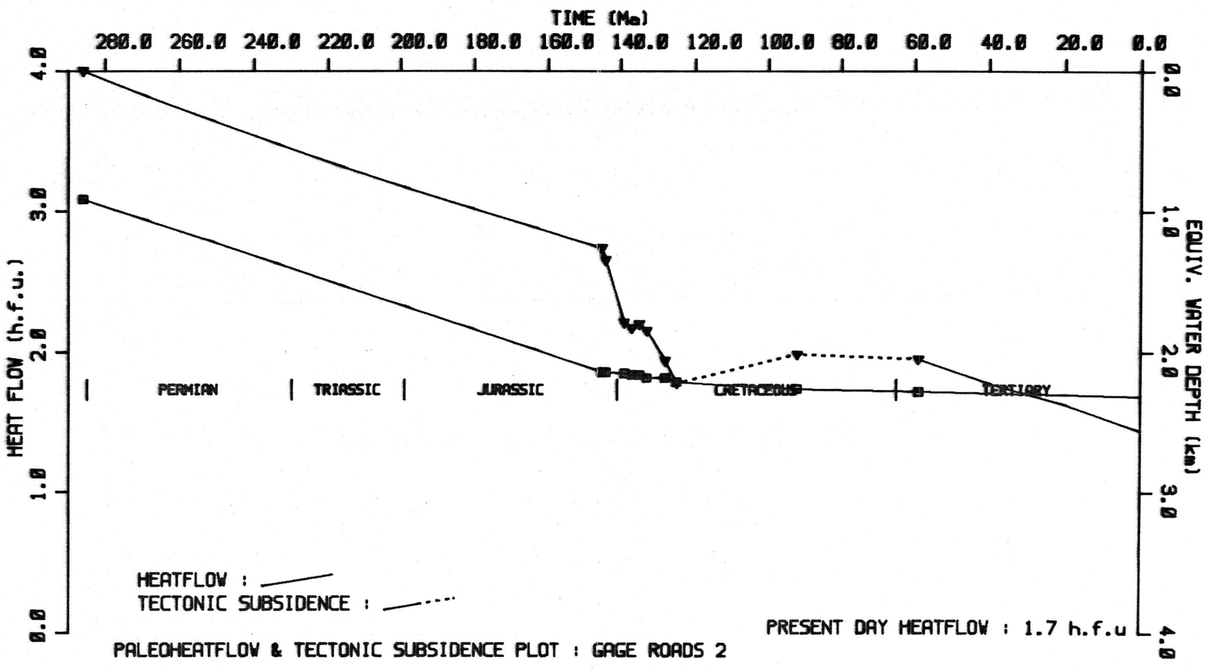
Record 1989/23



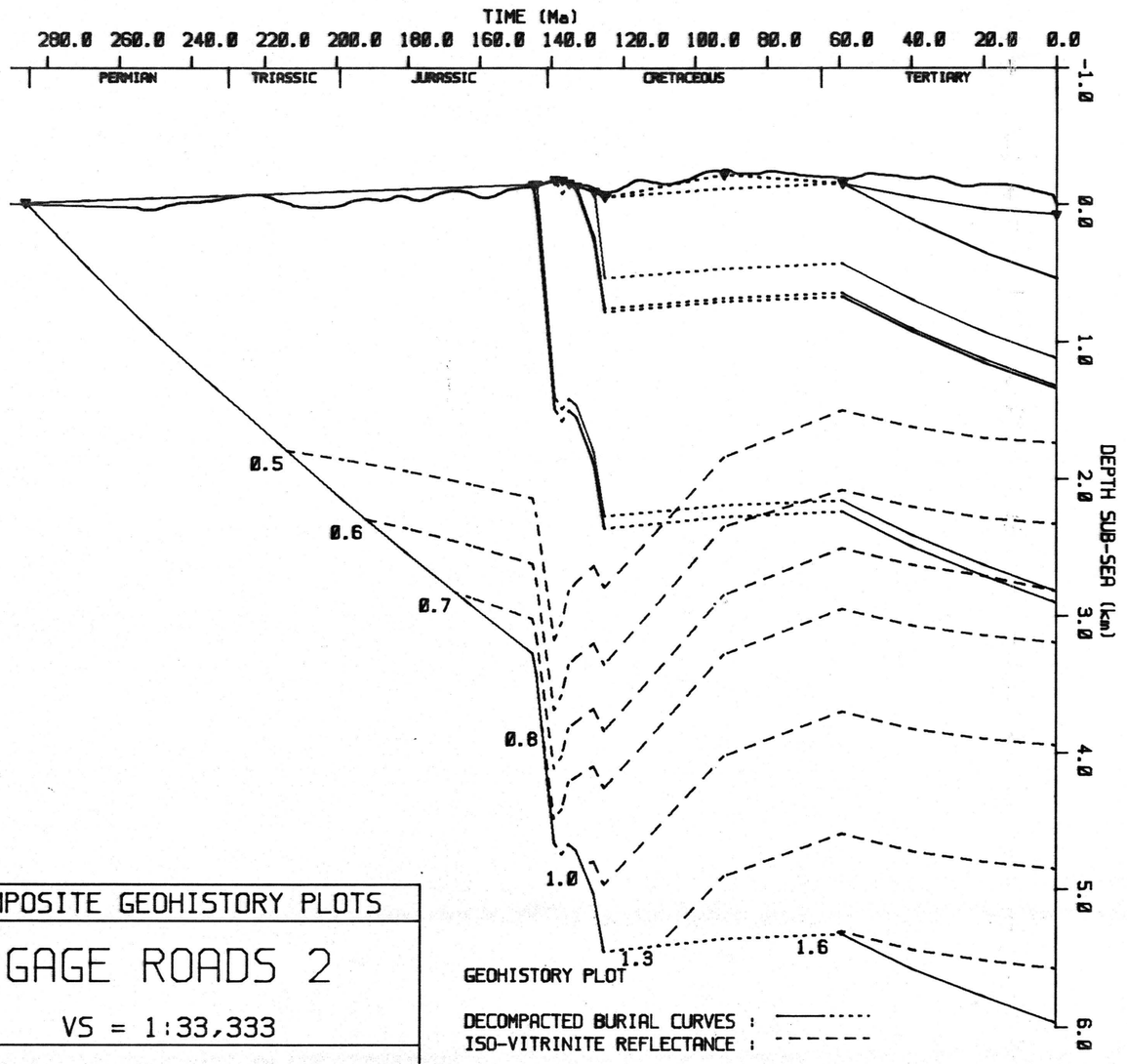


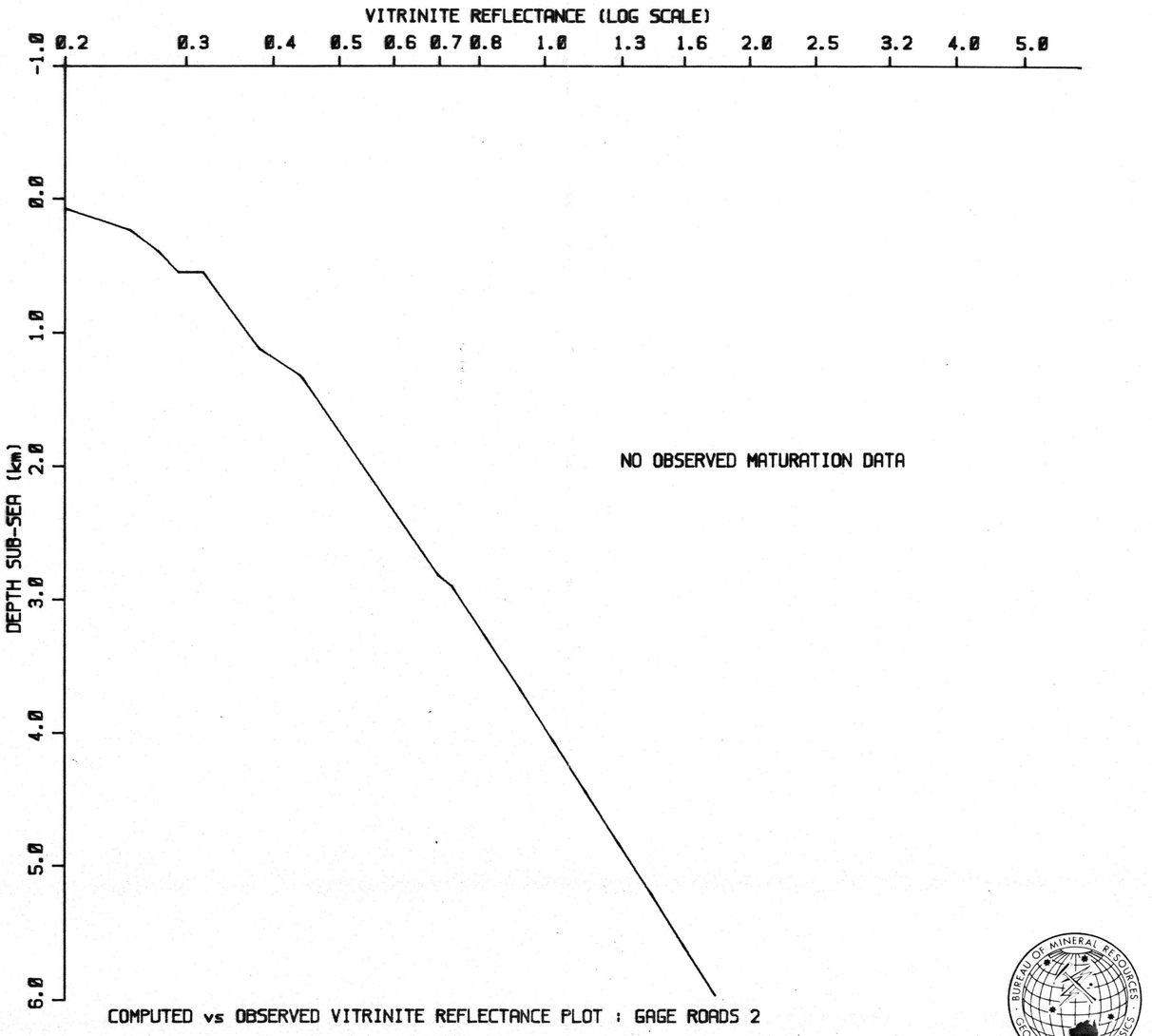
SUBSIDENCE HISTOGRAMS : GAGE ROADS 2





PALEOHEATFLOW & TECTONIC SUBSIDENCE PLOT : GAGE ROADS 2





COMPUTED vs OBSERVED VITRINITE REFLECTANCE PLOT : GAGE ROADS 2

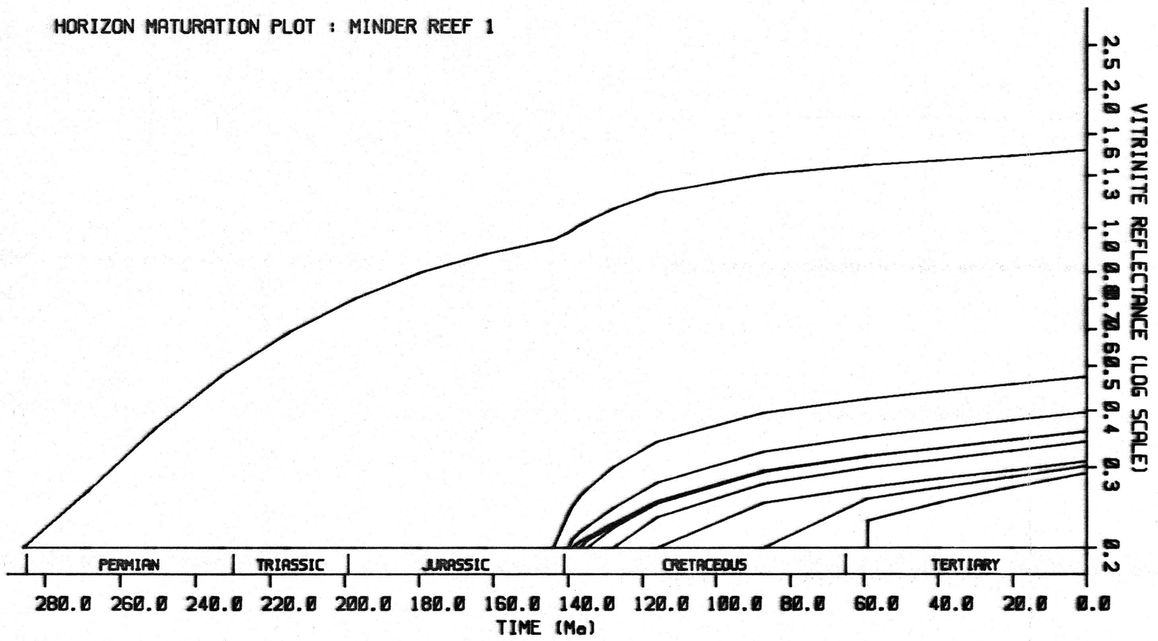
COMPOSITE GEOHISTORY PLOTS

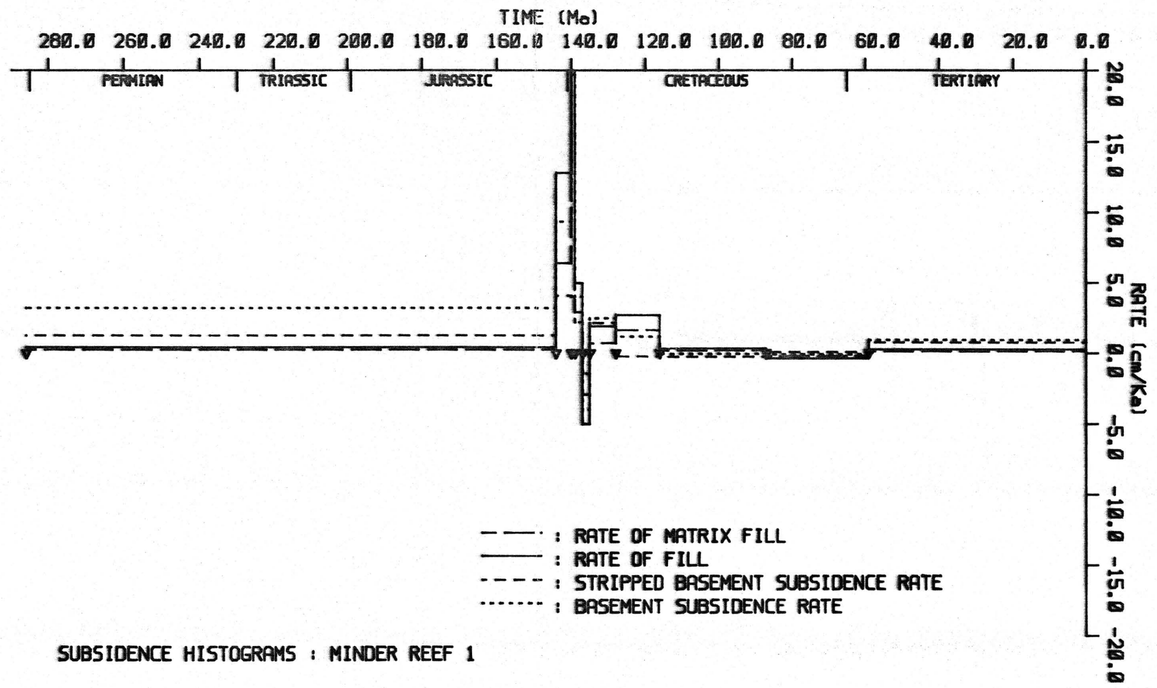
GAGE ROADS 2

VS = 1:33,333

Record 1989/23

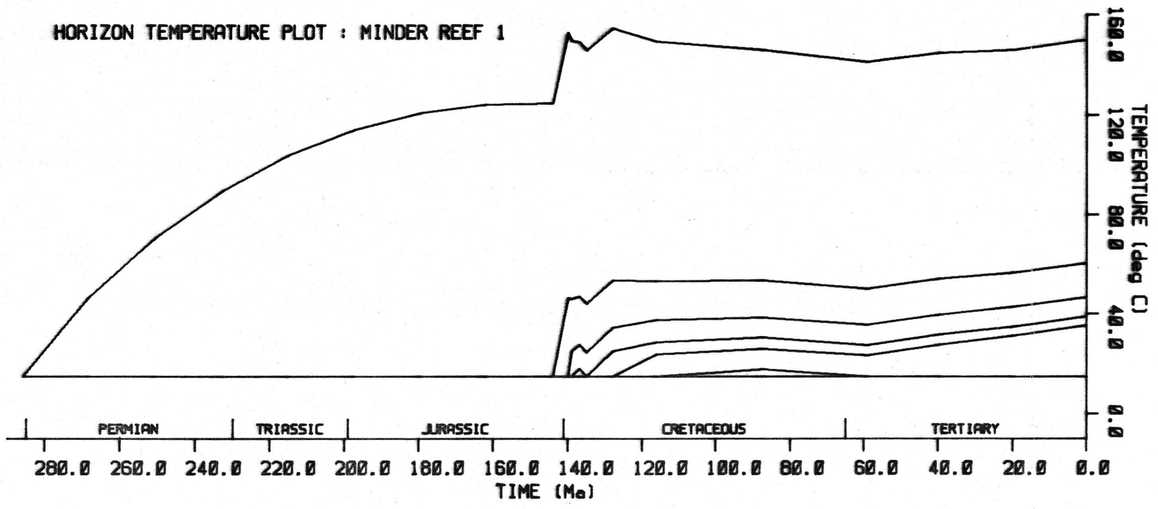
HORIZON MATURATION PLOT : MINDER REEF 1

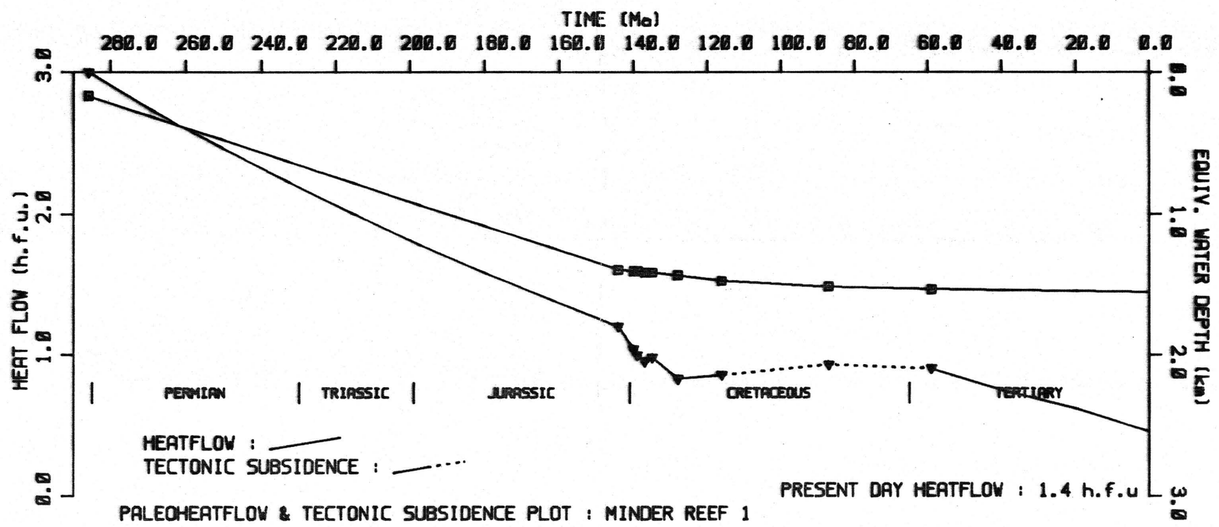




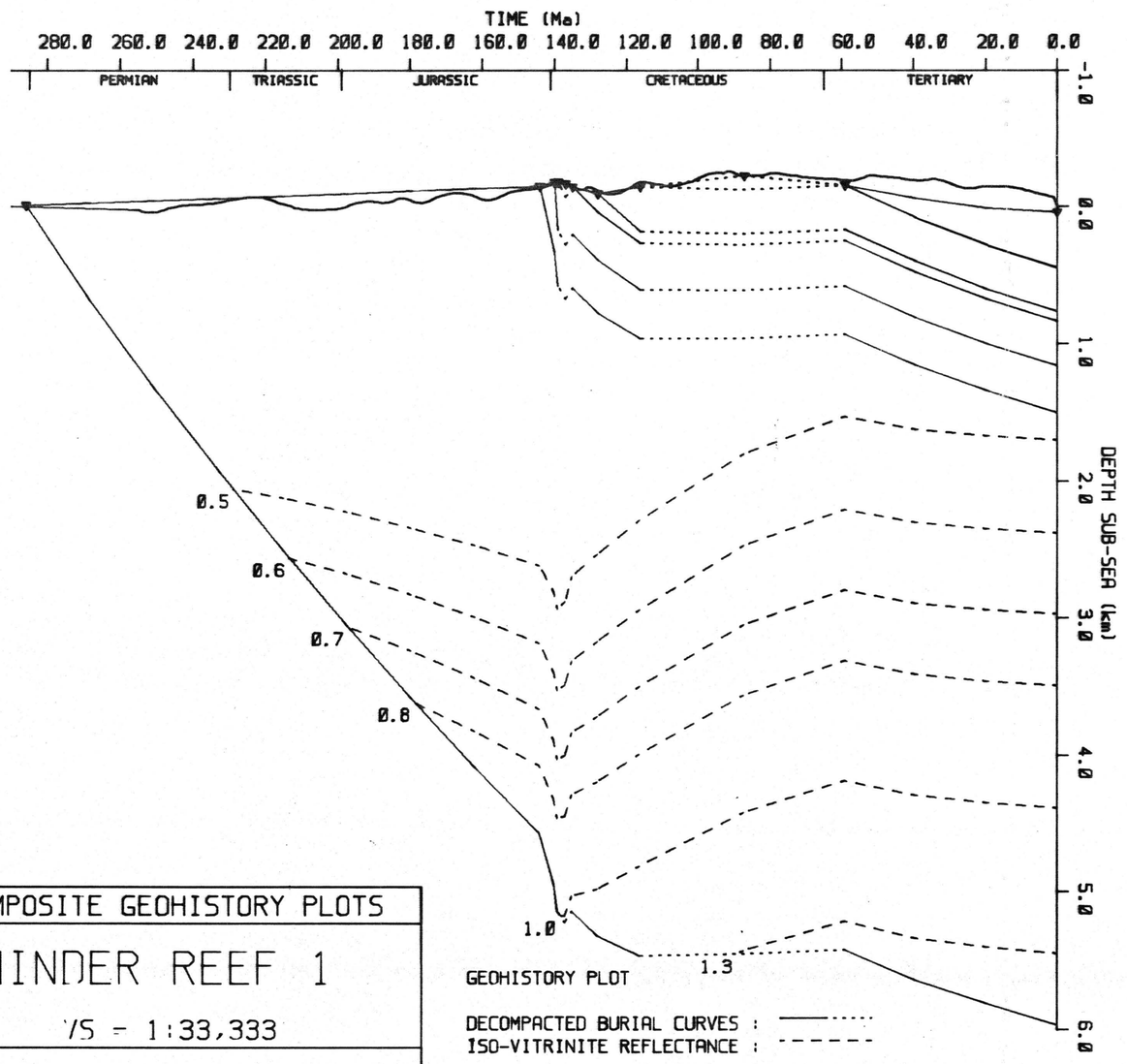
SUBSIDENCE HISTOGRAMS : MINDER REEF 1

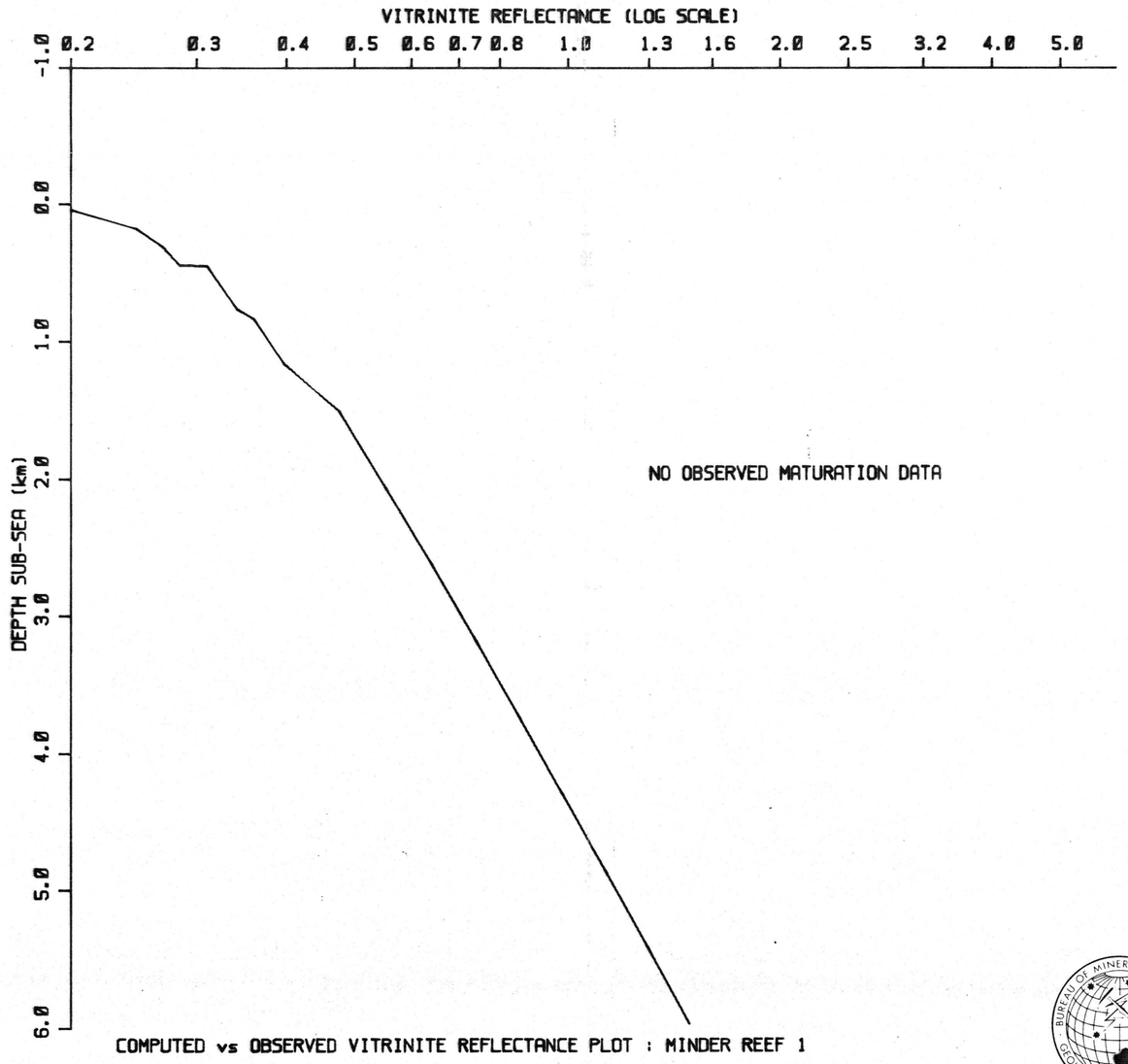
HORIZON TEMPERATURE PLOT : MINDER REEF 1





PALEOHEATFLOW & TECTONIC SUBSIDENCE PLOT : MINDER REEF 1





COMPUTED vs OBSERVED VITRINITE REFLECTANCE PLOT : MINDER REEF 1

COMPOSITE GEOHISTORY PLOTS

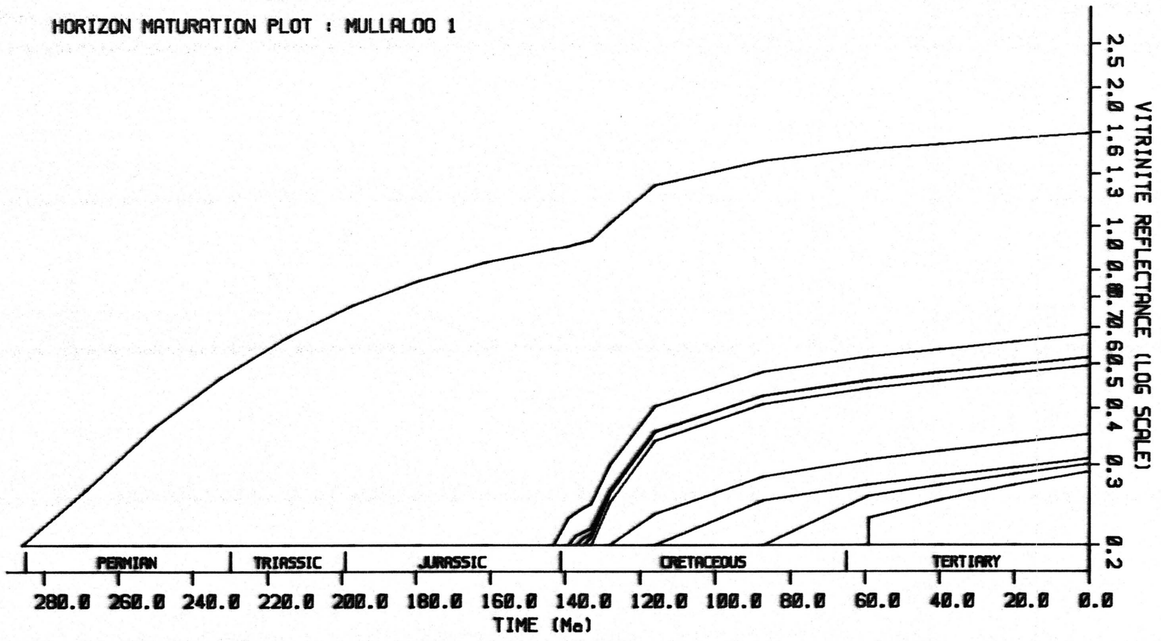
MINDER REEF 1

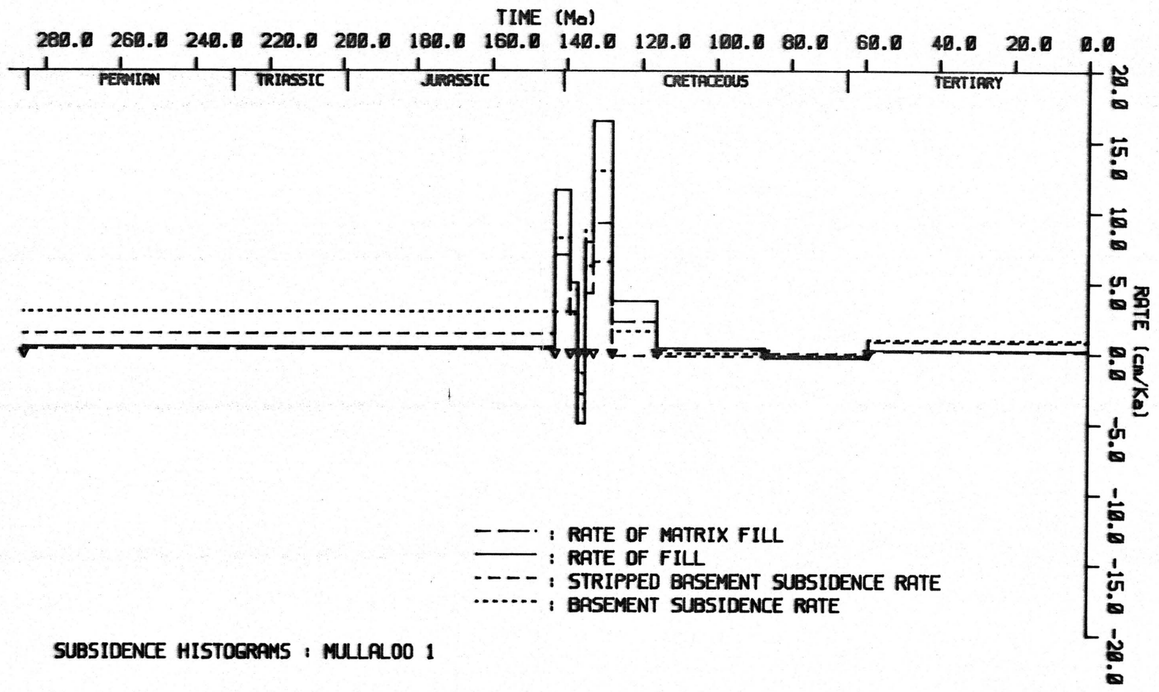
V/S = 1:33,333

Record 1989/23

Geohistory analysis — Minder Reef 1

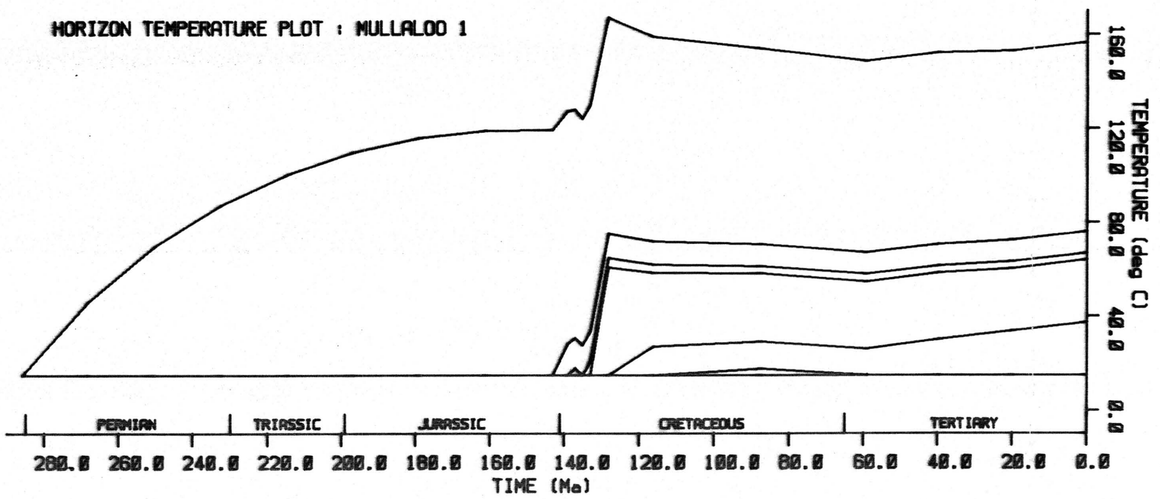
HORIZON MATURATION PLOT : MULLALOO 1

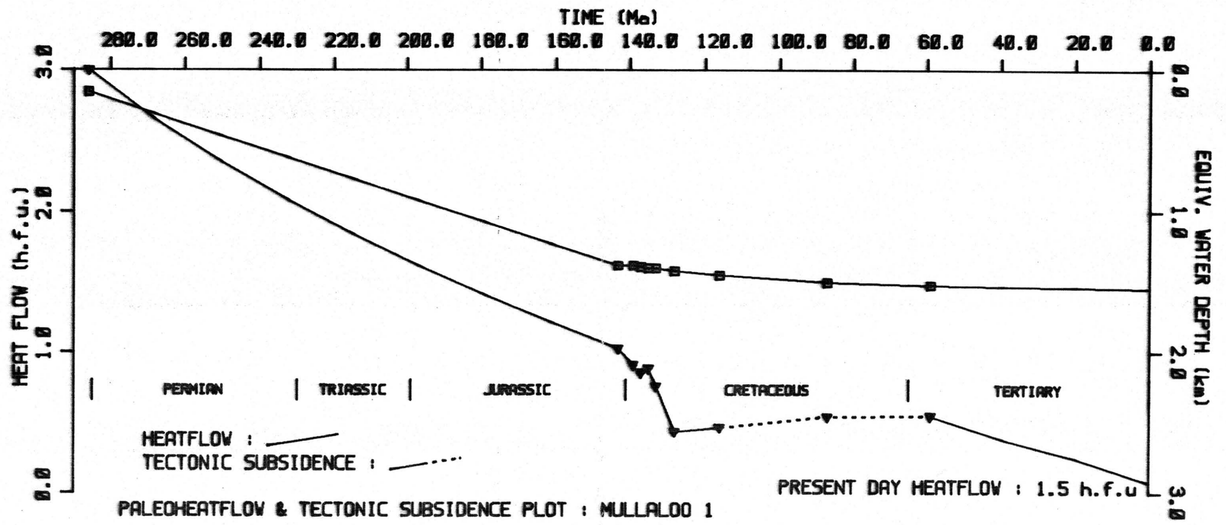




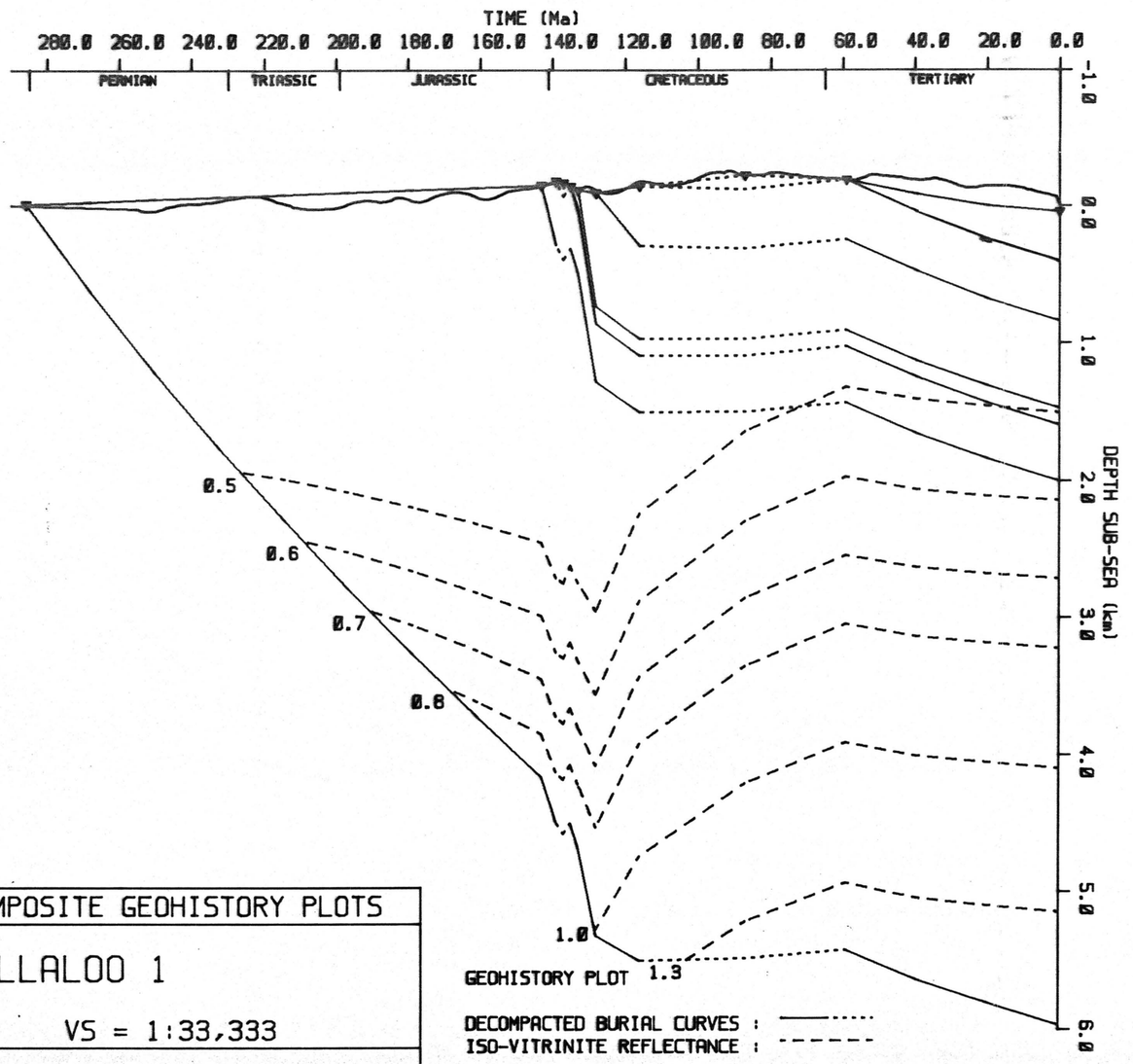
SUBSIDENCE HISTOGRAMS : MULLALOO 1

HORIZON TEMPERATURE PLOT : MULLALOO 1



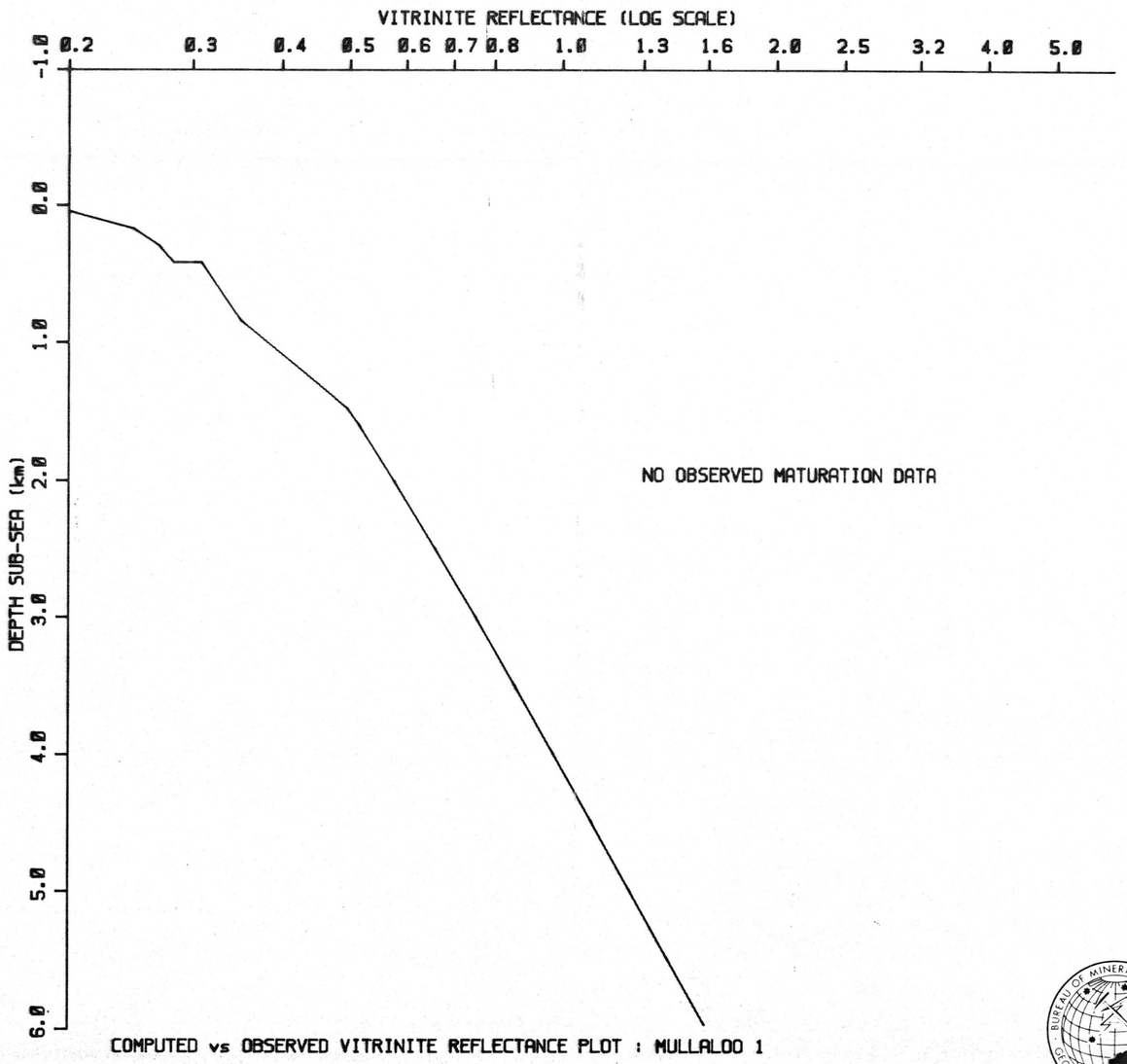


PALEOHEATFLOW & TECTONIC SUBSIDENCE PLOT : MULLALOO 1



GEOHISTORY PLOT

DECOMPACTED BURIAL CURVES :
ISO-VITRINITE REFLECTANCE :

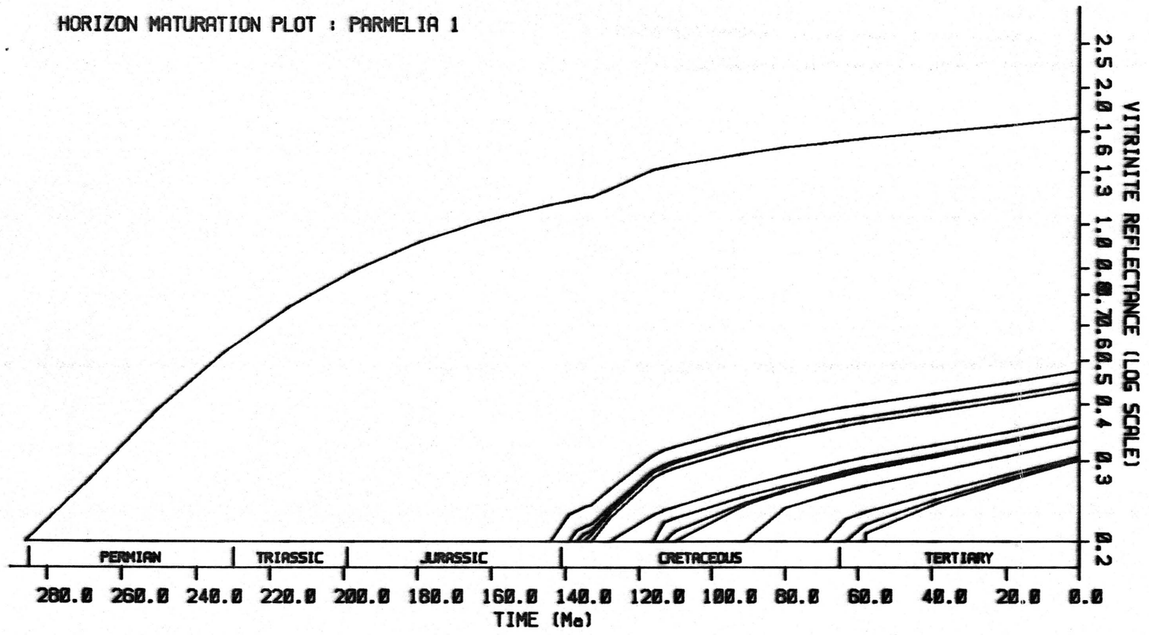


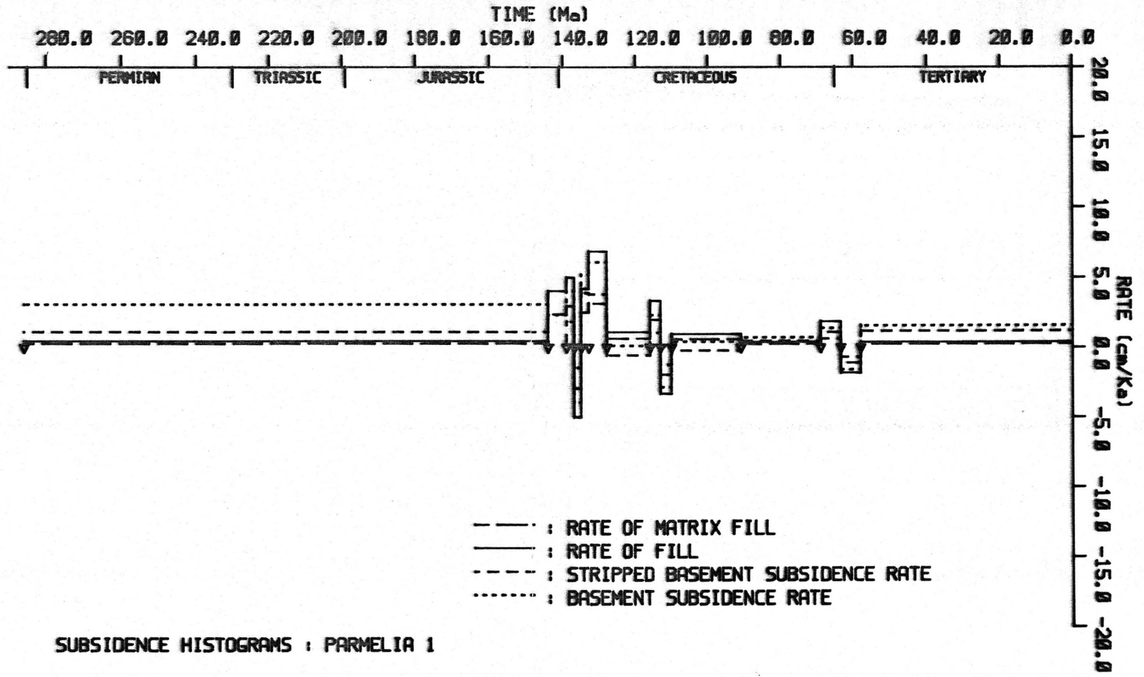
COMPUTED vs OBSERVED VITRINITE REFLECTANCE PLOT : MULLALOO 1

COMPOSITE GEOHISTORY PLOTS
MULLALOO 1
VS = 1:33,333

Record 1989/23

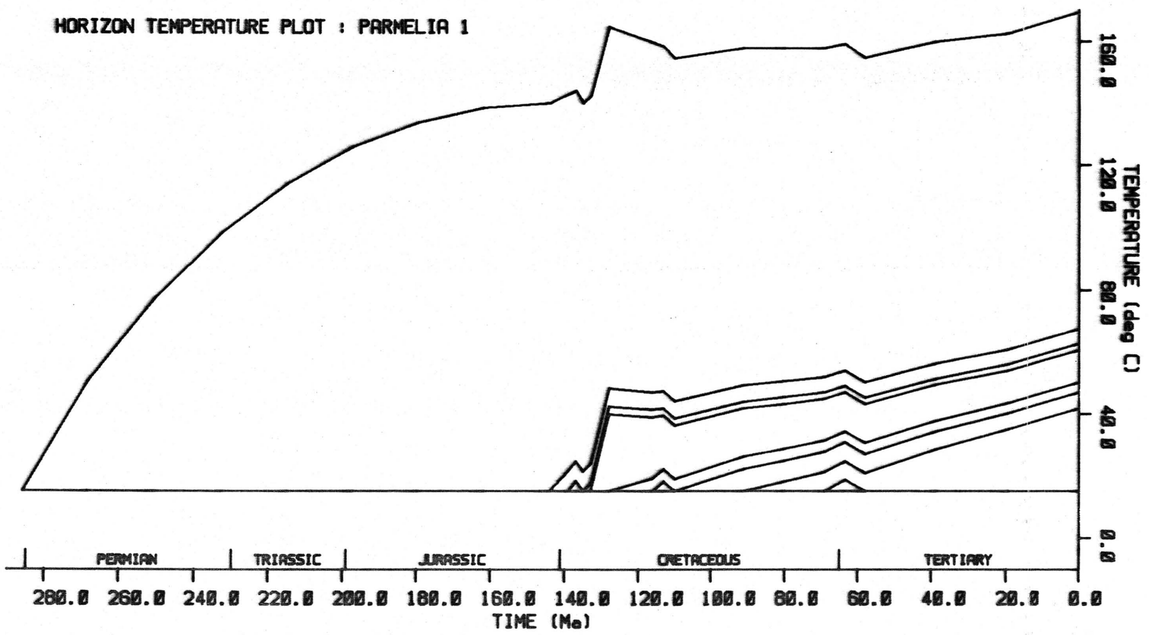
HORIZON MATURATION PLOT : PARMELIA 1

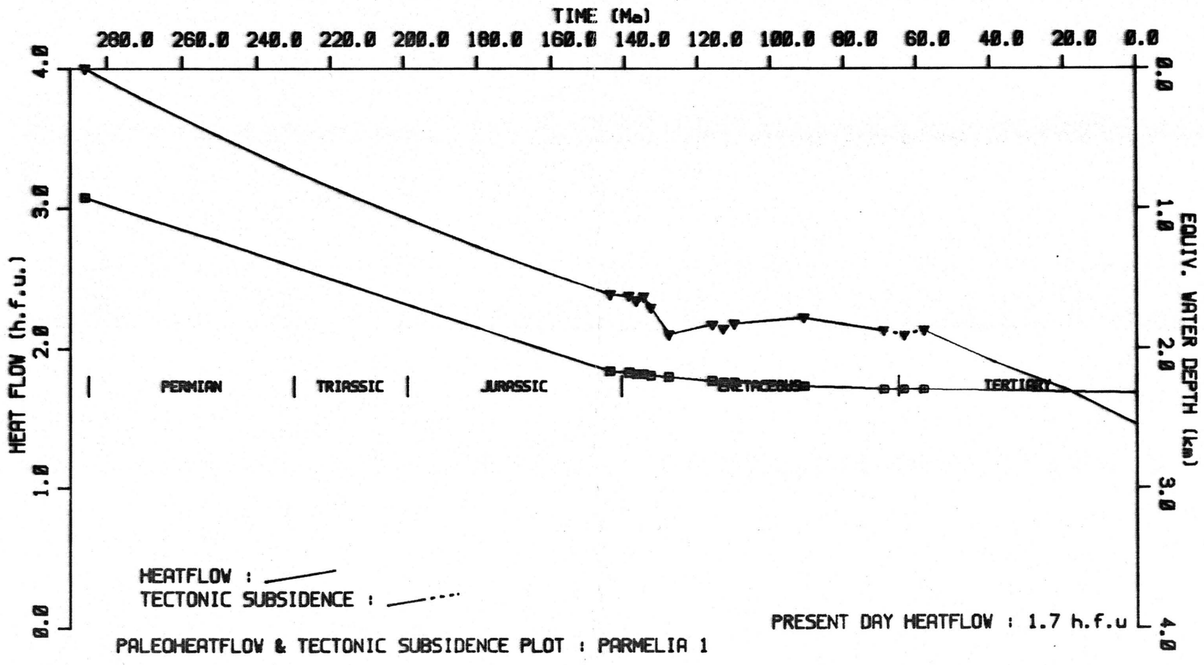




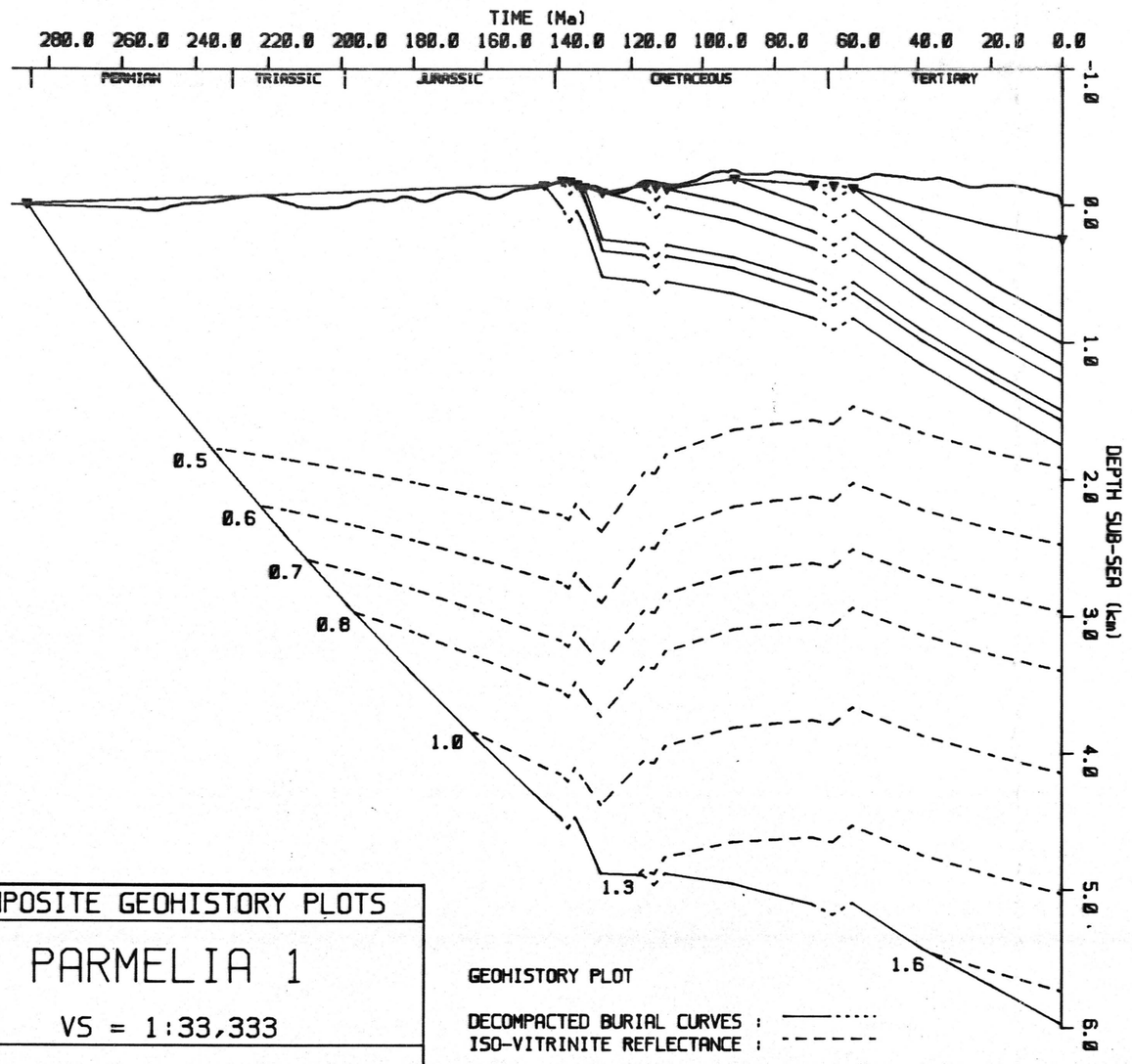
SUBSIDENCE HISTOGRAMS : PARMELIA 1

HORIZON TEMPERATURE PLOT : PARMELIA 1



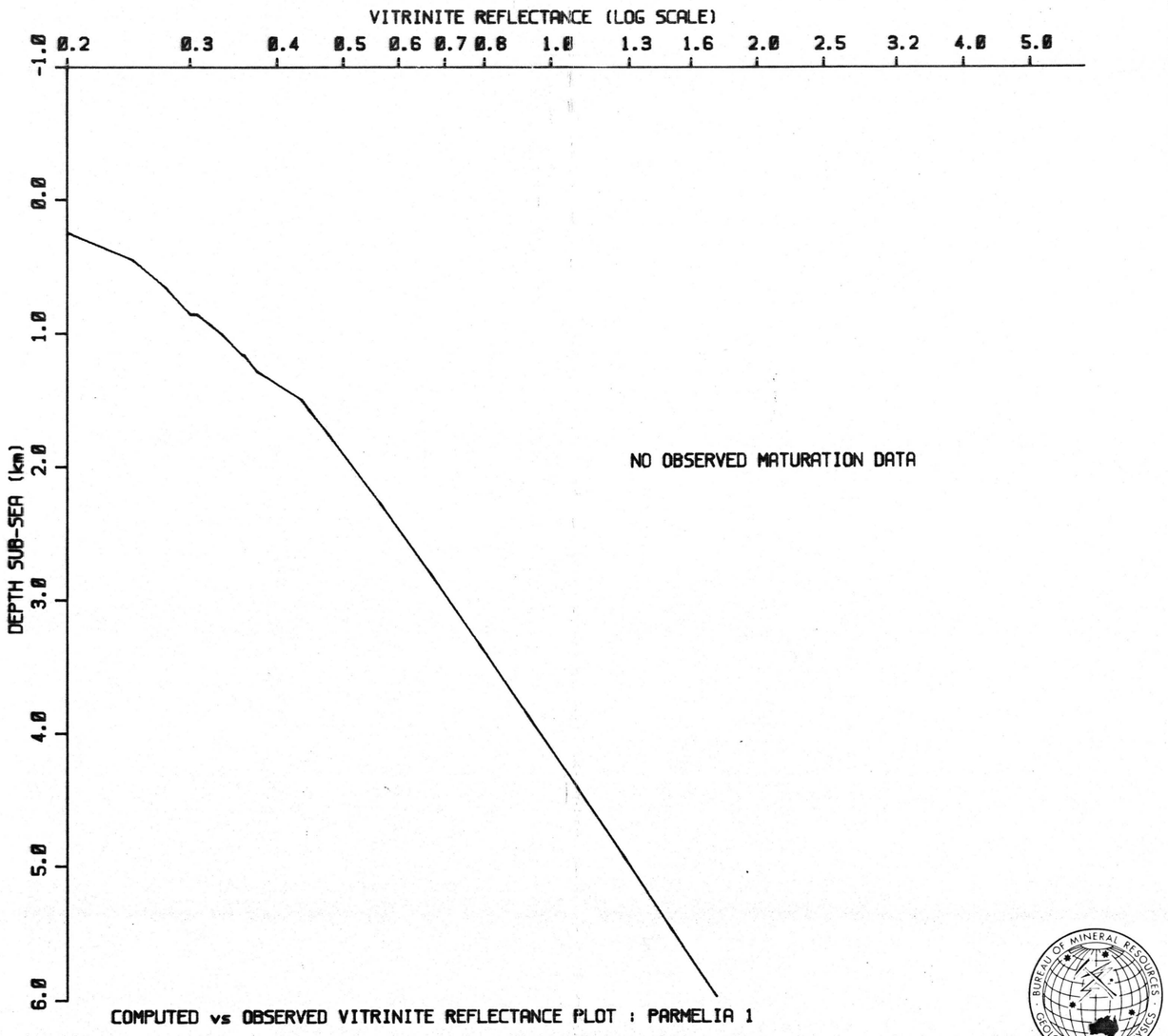


PALEOHEATFLOW & TECTONIC SUBSIDENCE PLOT : PARMELIA 1



GEOHISTORY PLOT

DECOMPACTED BURIAL CURVES :
ISO-VITRINITE REFLECTANCE :



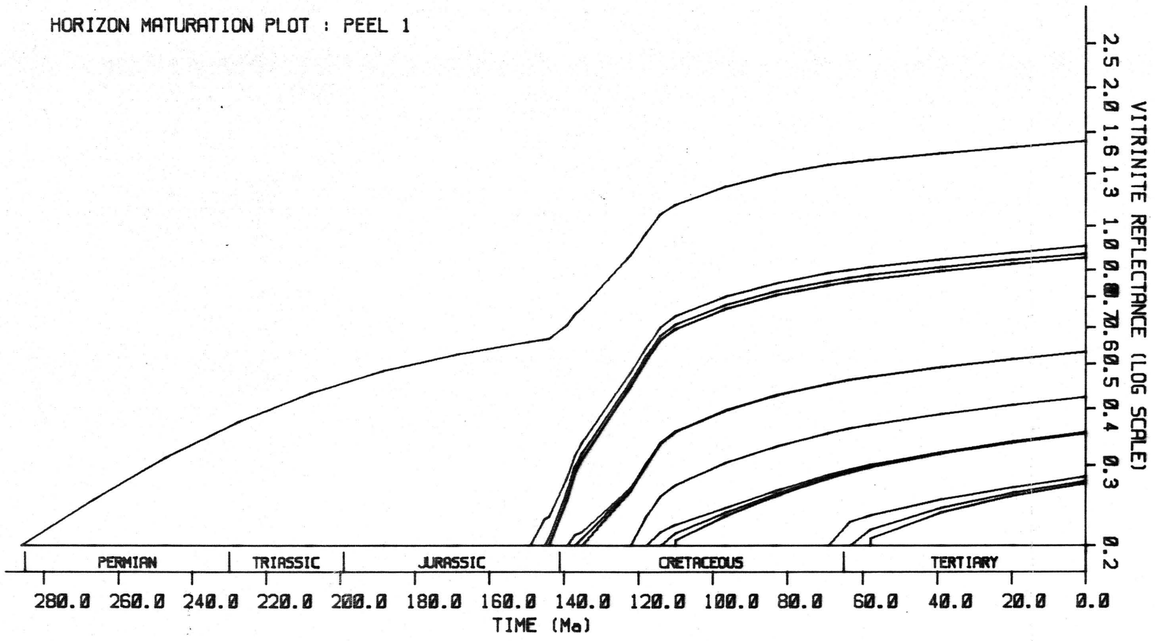
NO OBSERVED MATURATION DATA

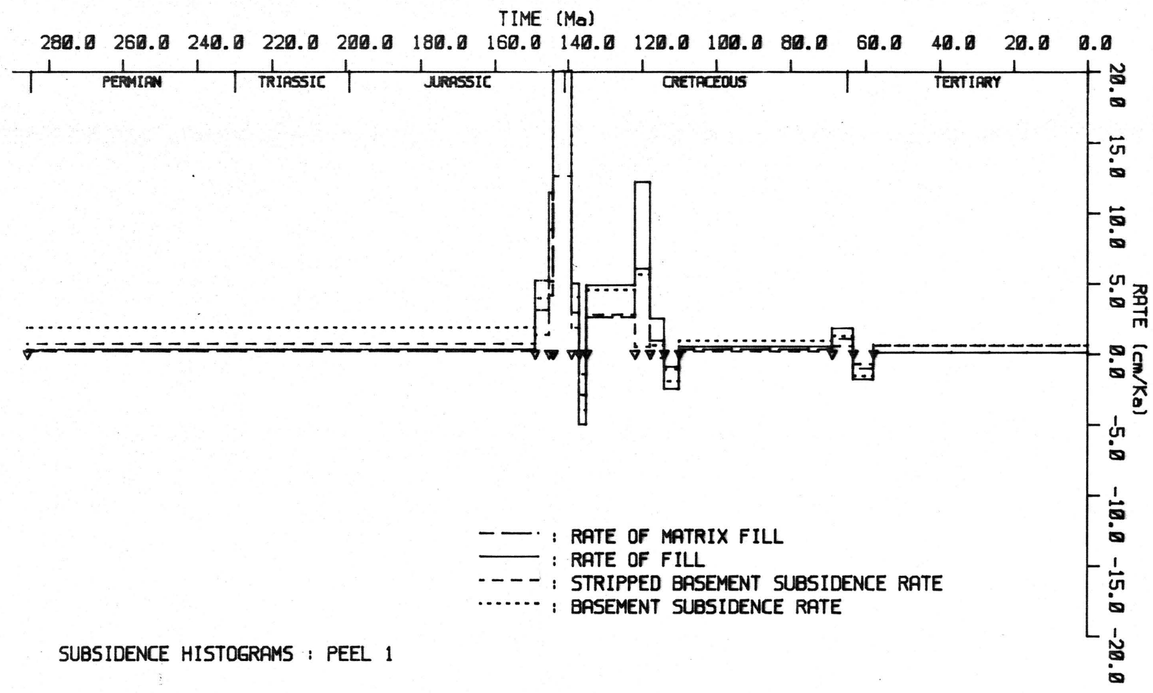
COMPUTED vs OBSERVED VITRINITE REFLECTANCE PLOT : PARMELIA 1

COMPOSITE GEOHISTORY PLOTS
PARMELIA 1
VS = 1:33,333

Record 1989/23

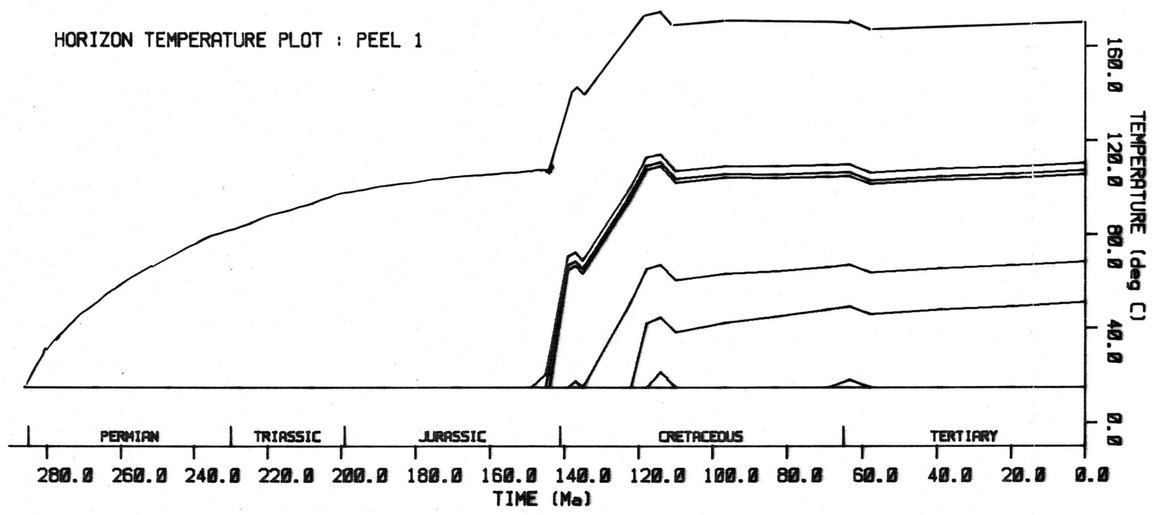
HORIZON MATURATION PLOT : PEEL 1

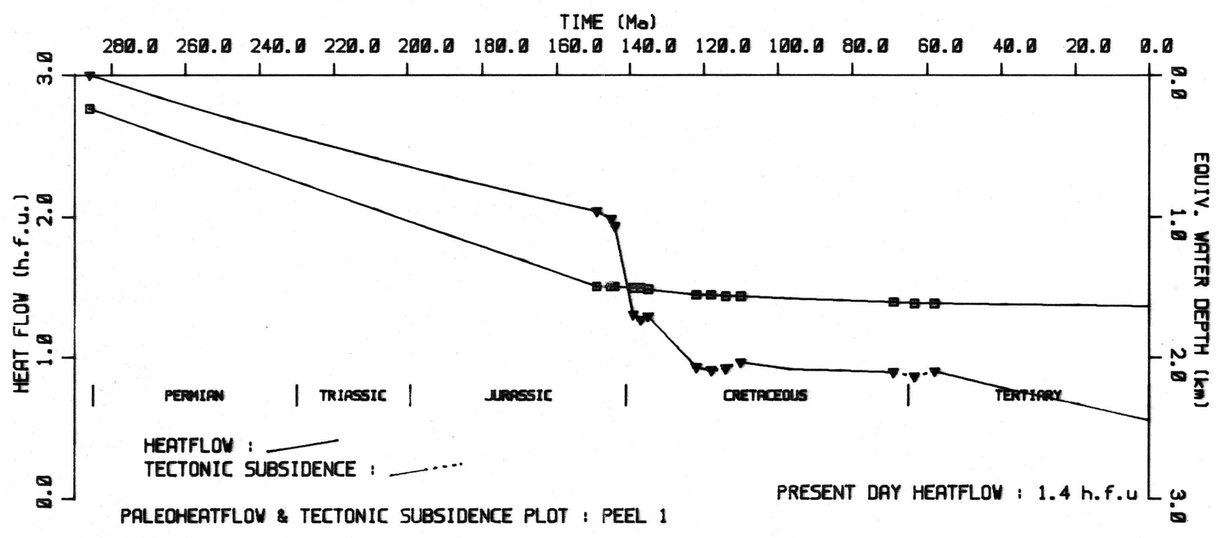




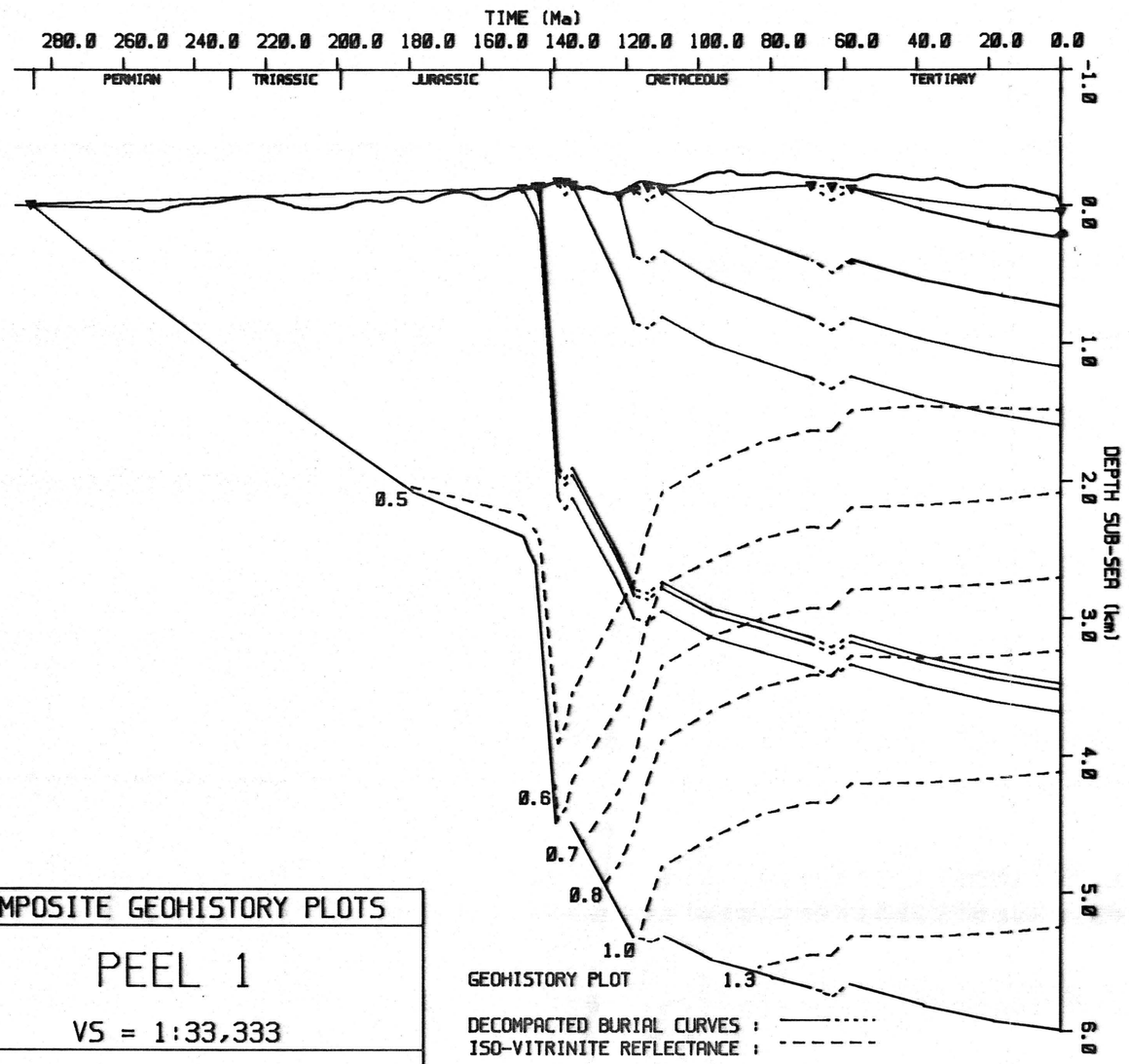
SUBSIDENCE HISTOGRAMS : PEEL 1

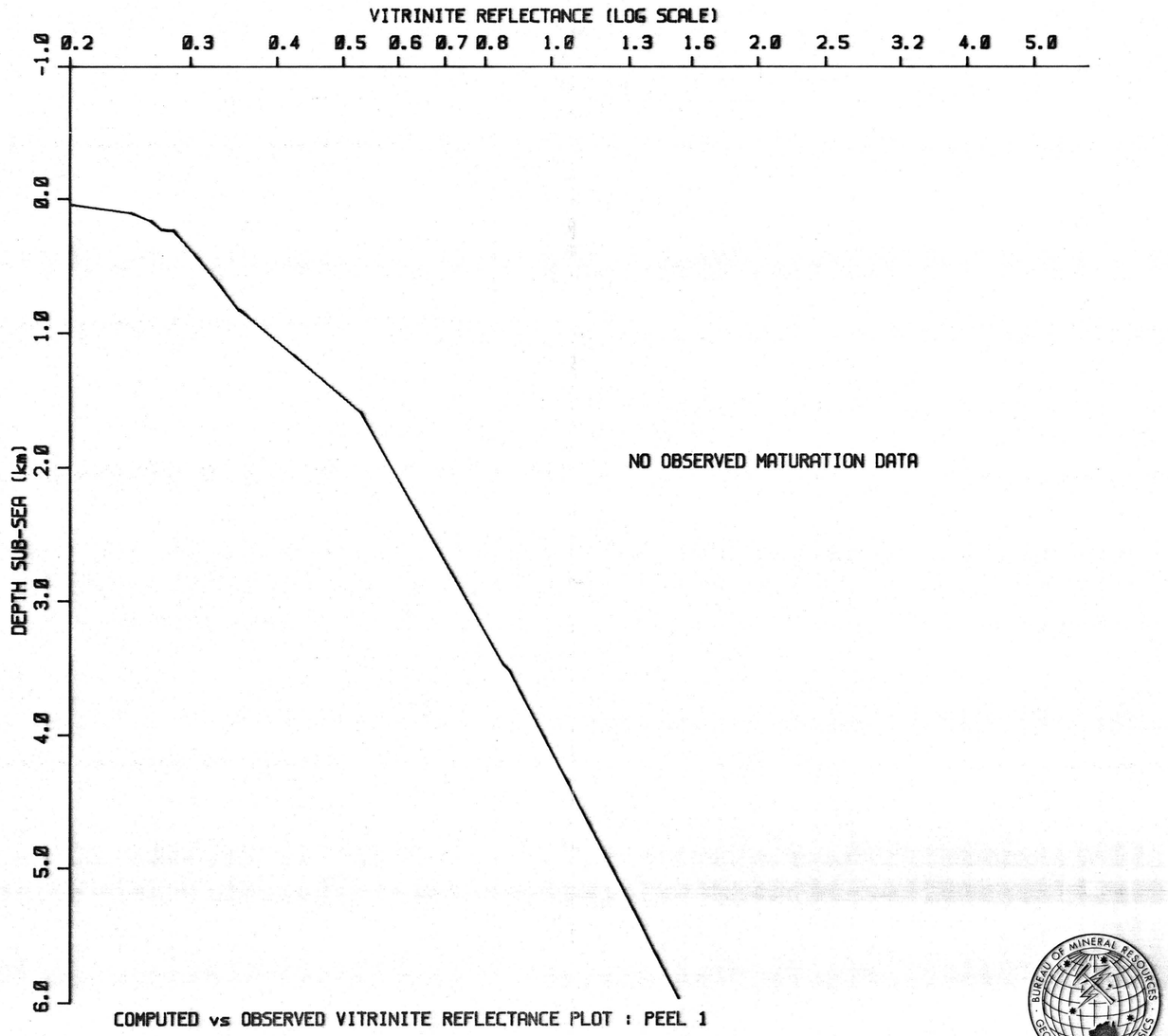
HORIZON TEMPERATURE PLOT : PEEL 1





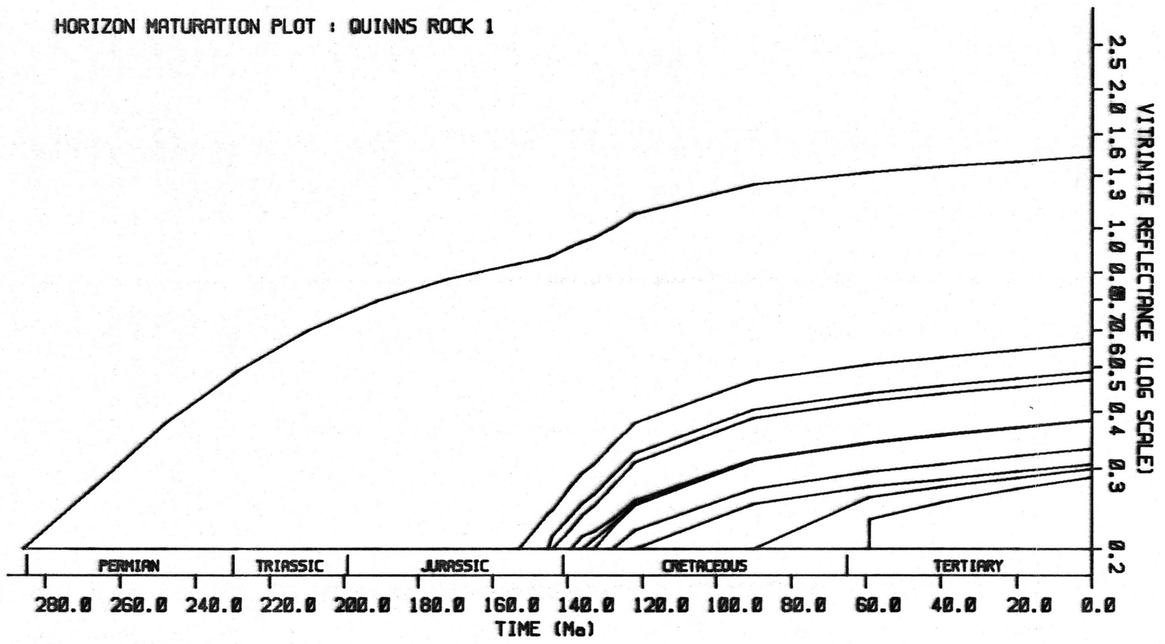
PALEOHEATFLOW & TECTONIC SUBSIDENCE PLOT : PEEL 1

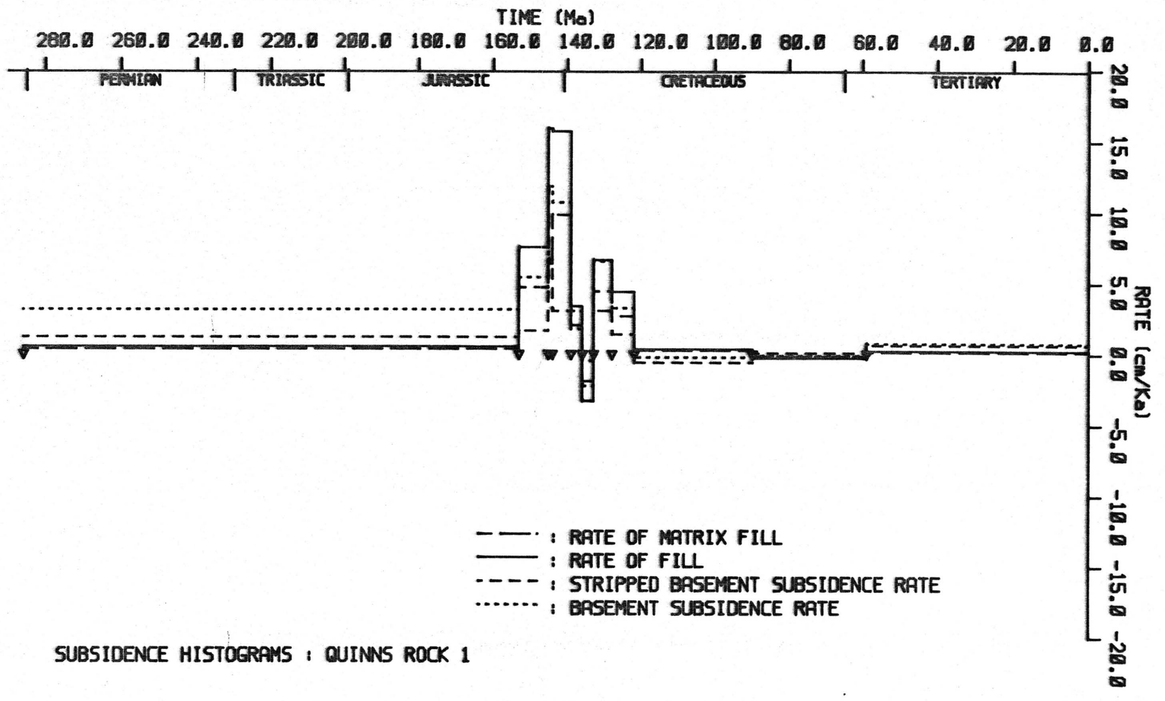


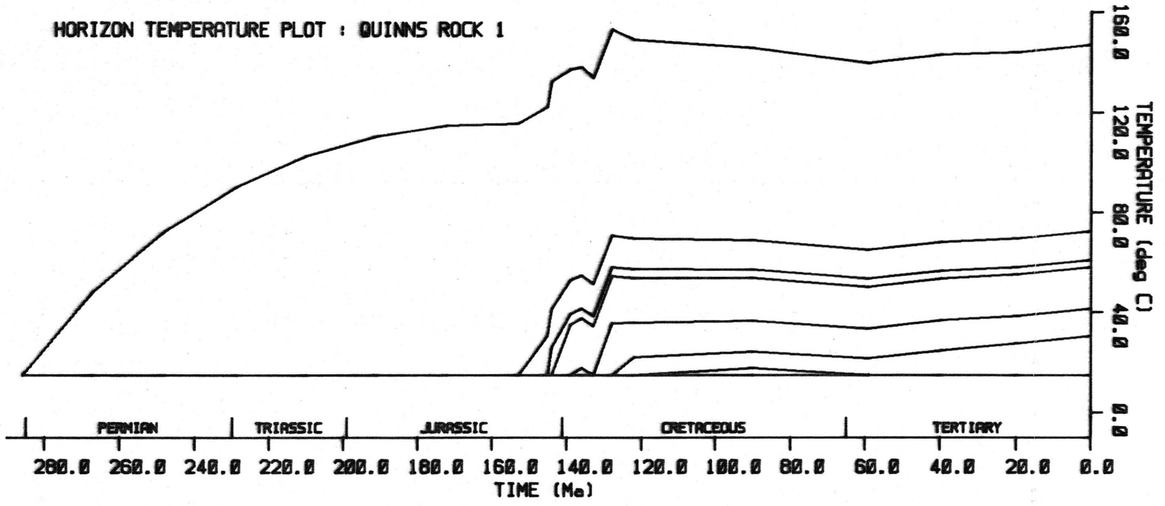


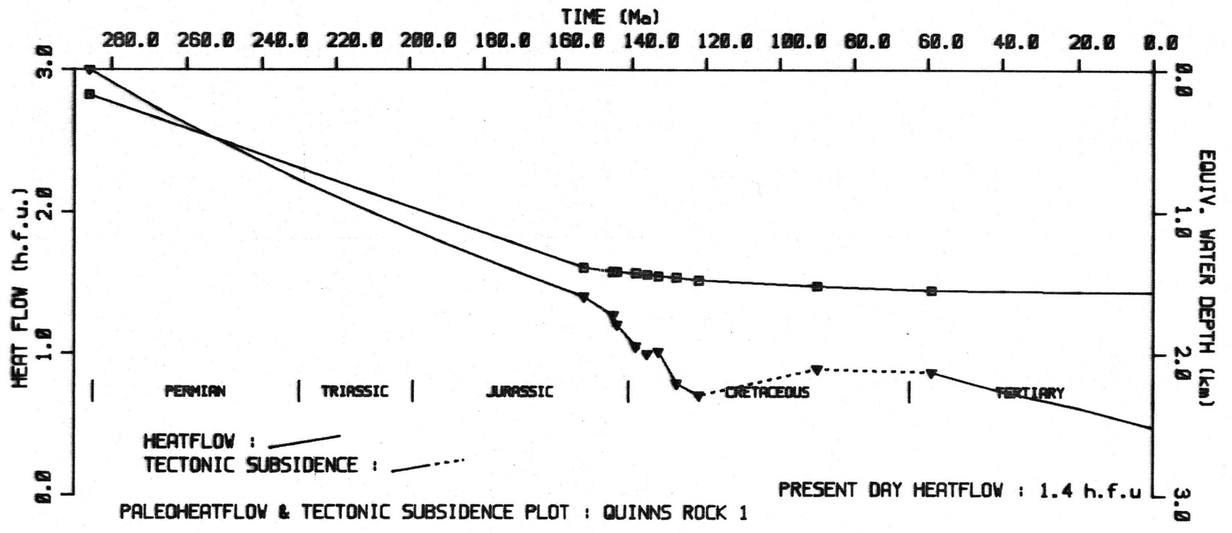
COMPUTED vs OBSERVED VITRINITE REFLECTANCE PLOT : PEEL 1

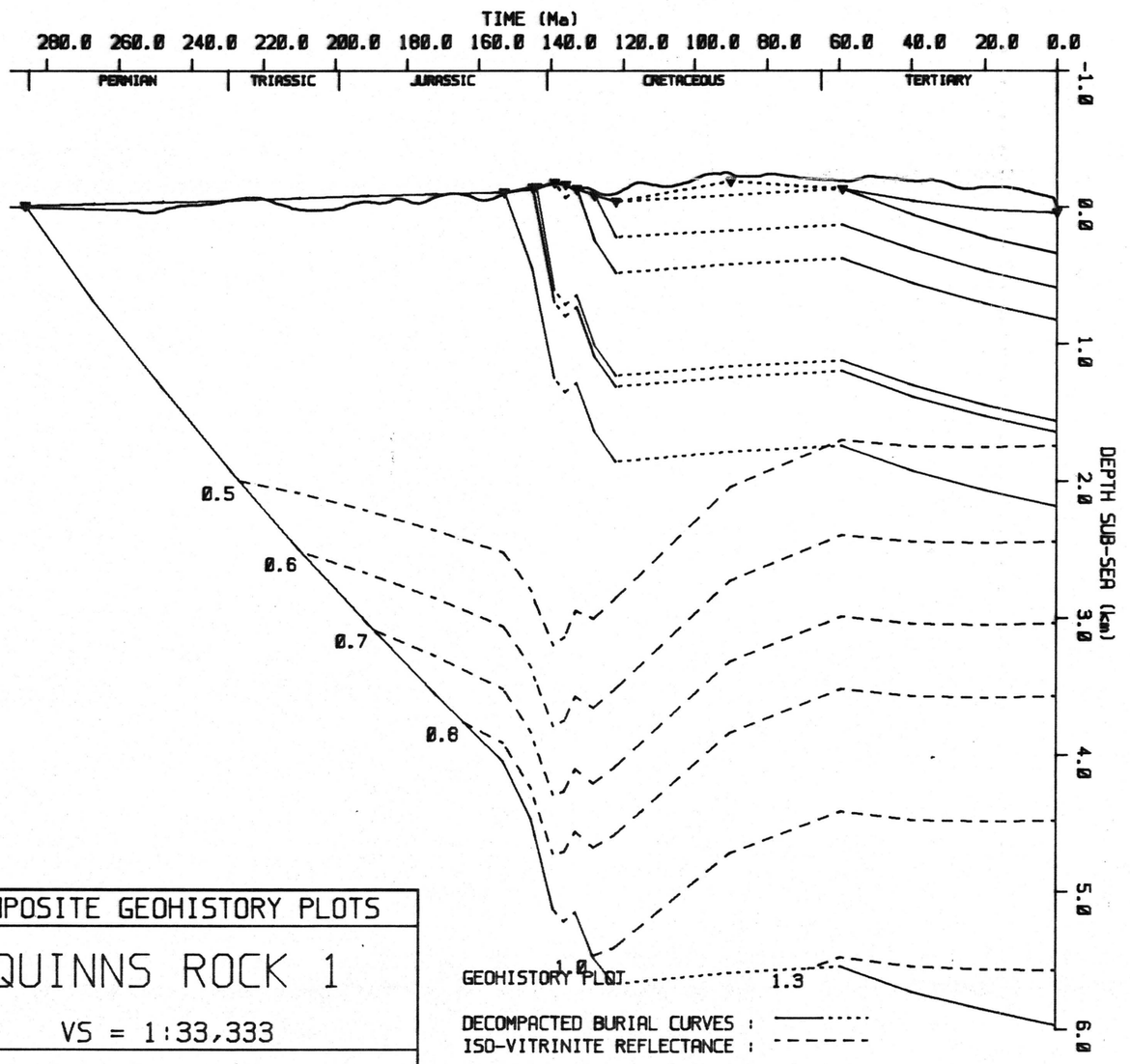
COMPOSITE GEOHISTORY PLOTS
PEEL 1
VS = 1:33,333

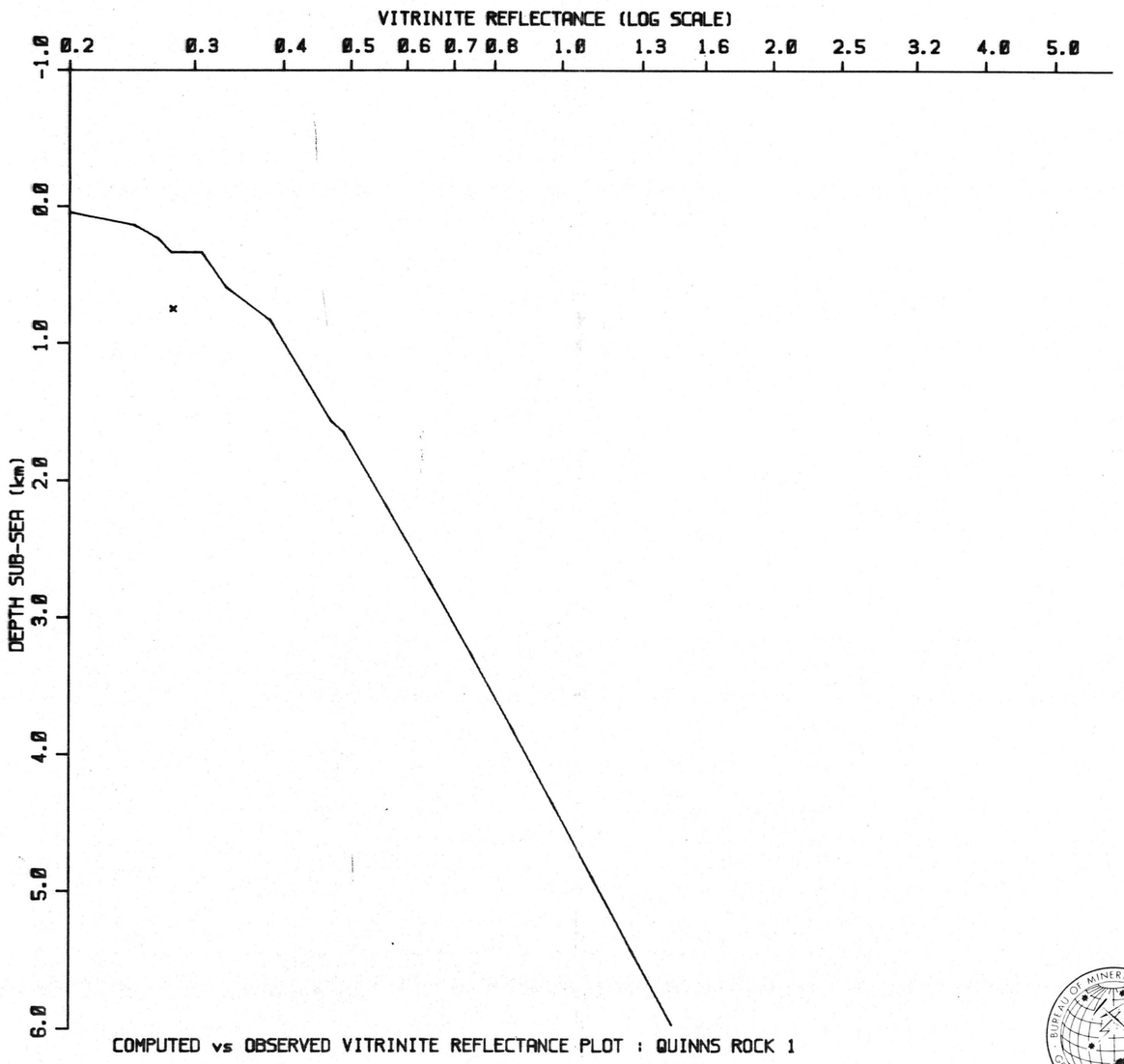












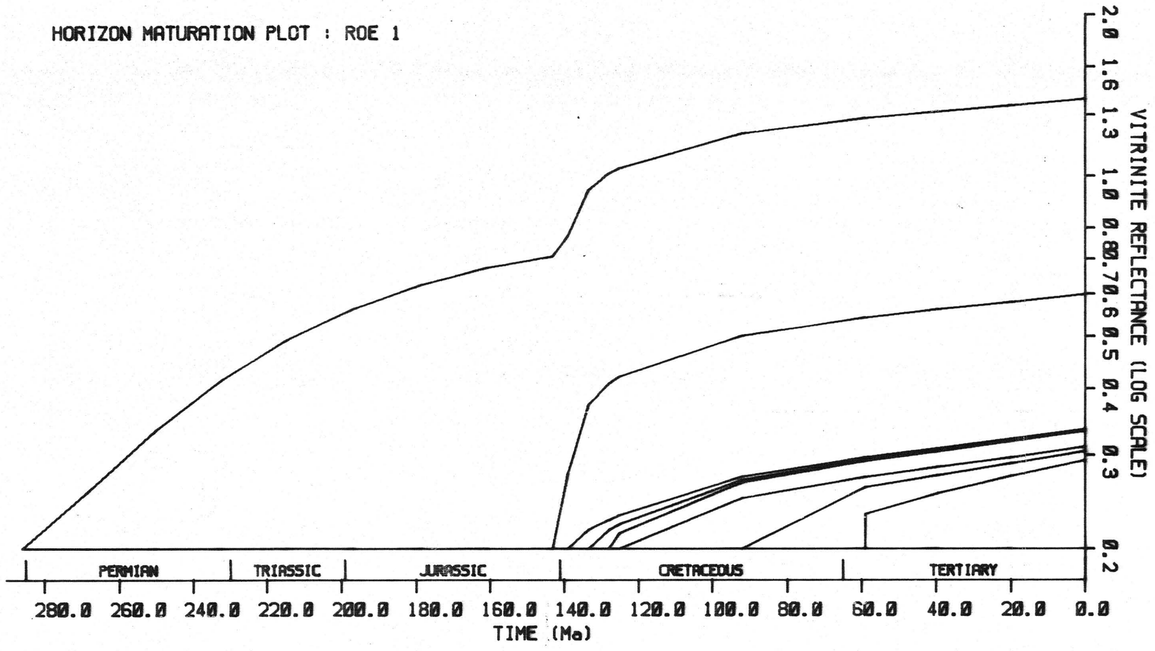
COMPOSITE GEOHISTORY PLOTS

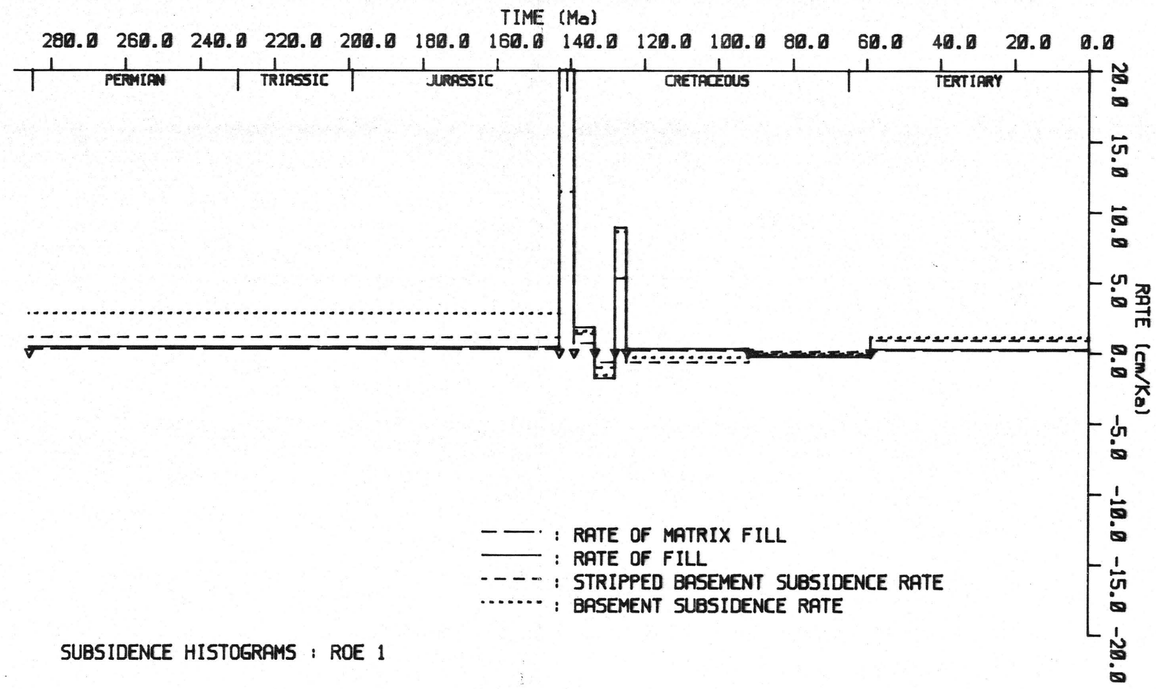
QUINNS ROCK 1

VS = 1:33,333

Record 1989/23

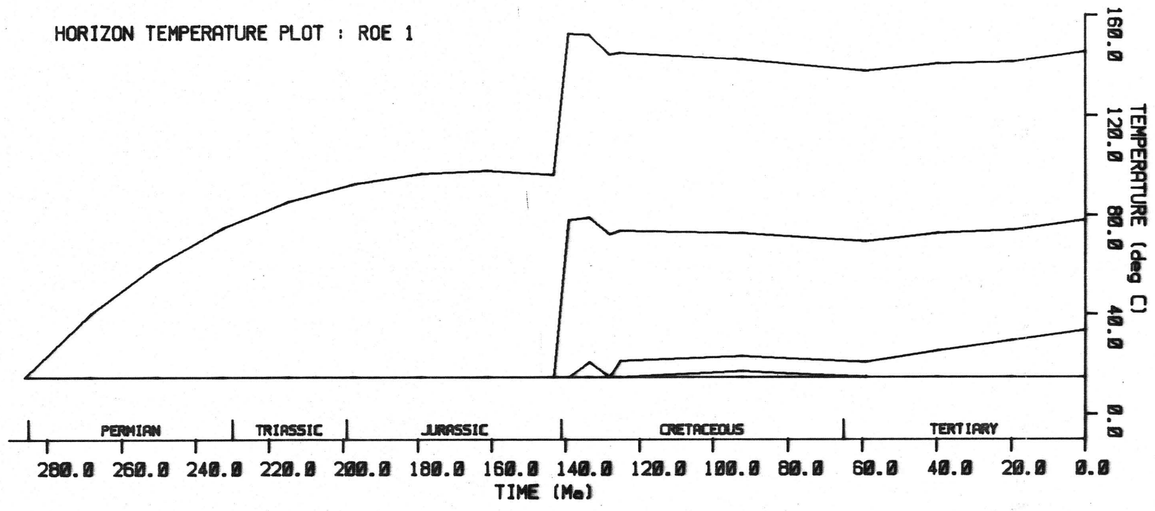
HORIZON MATURATION PLOT : ROE 1

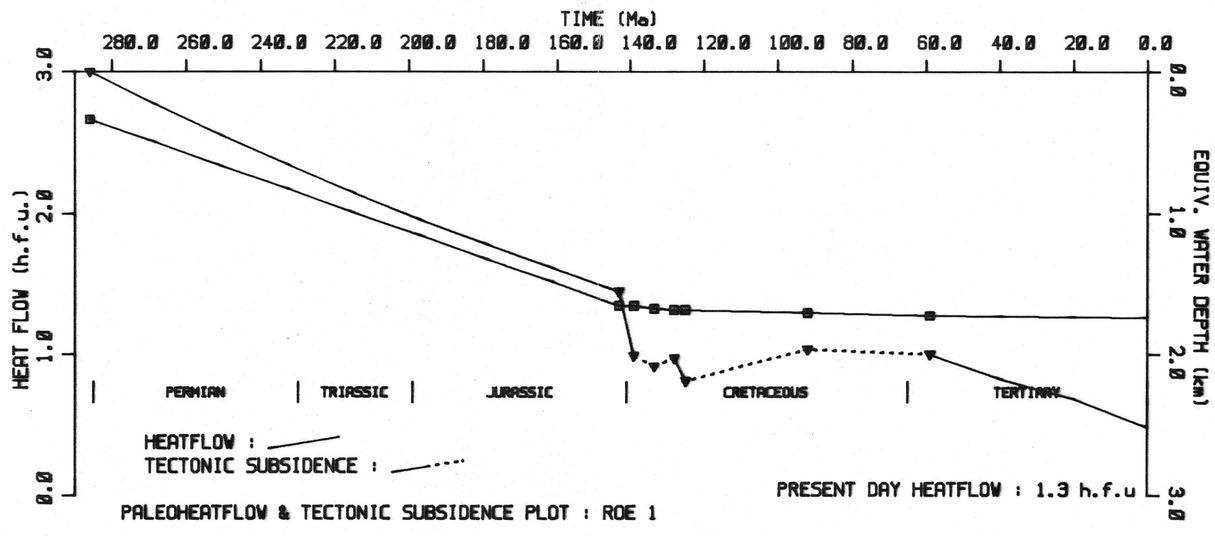




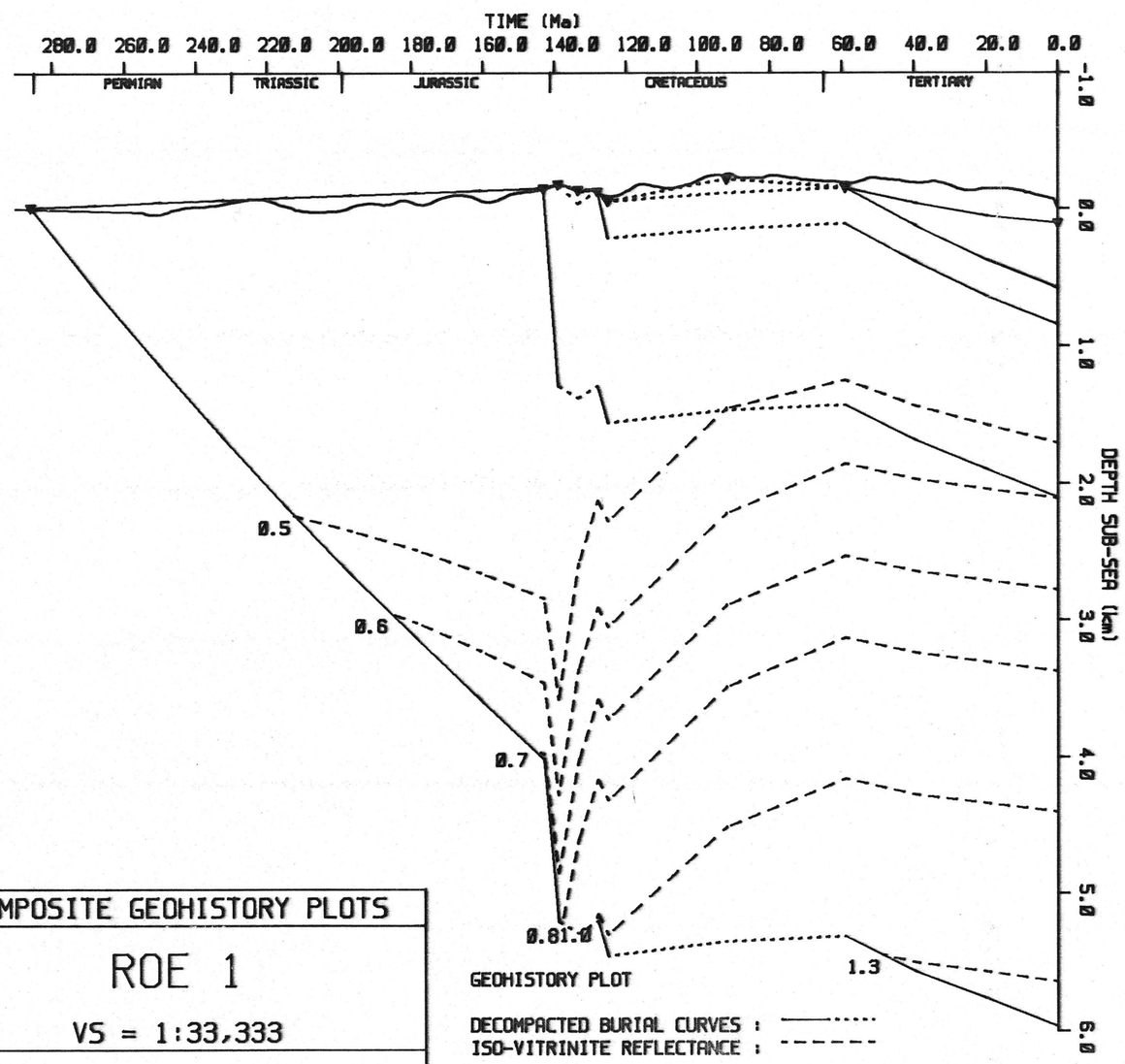
SUBSIDENCE HISTOGRAMS : ROE 1

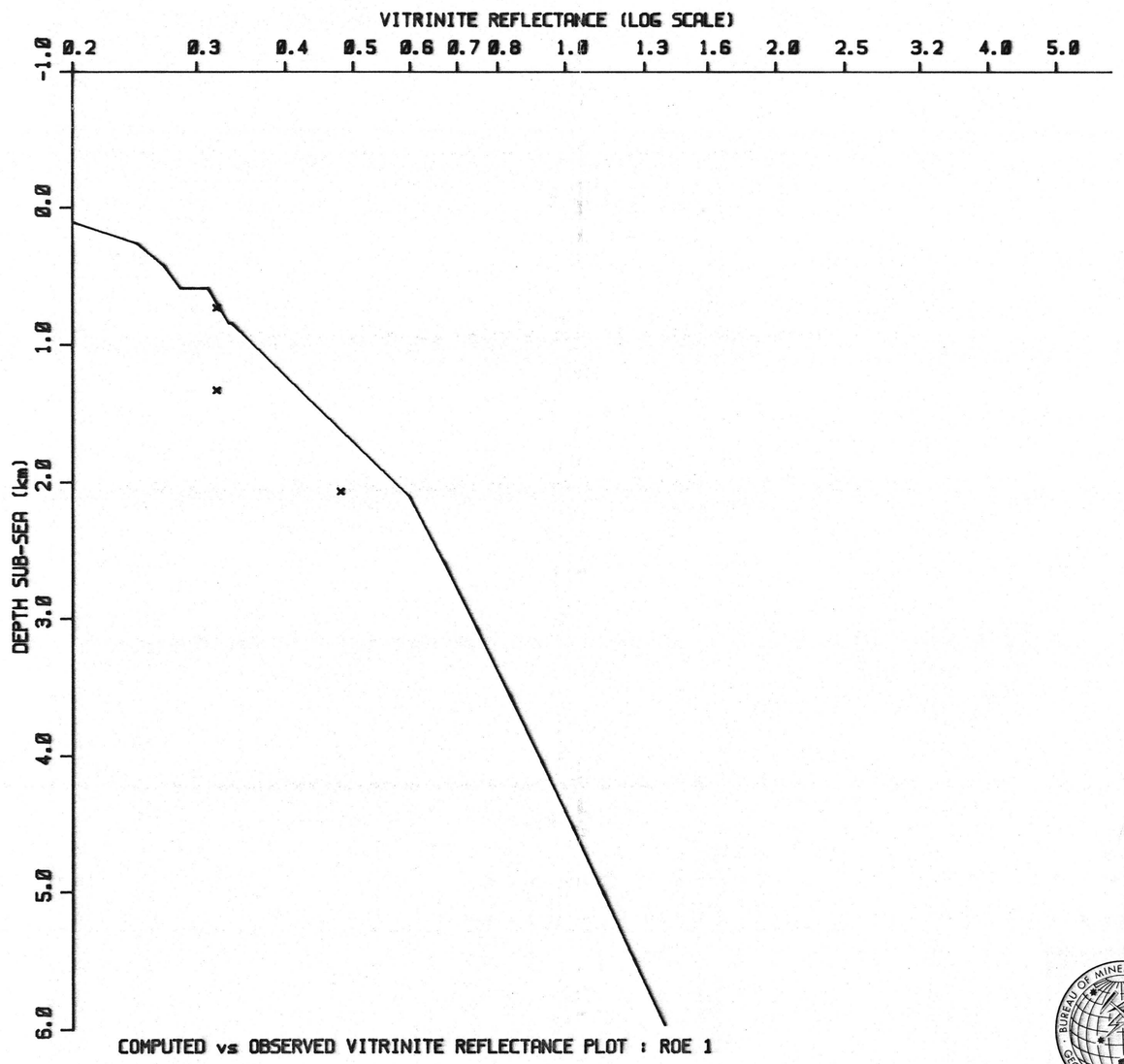
HORIZON TEMPERATURE PLOT : ROE 1





PALEOHEATFLOW & TECTONIC SUBSIDENCE PLOT : ROE 1

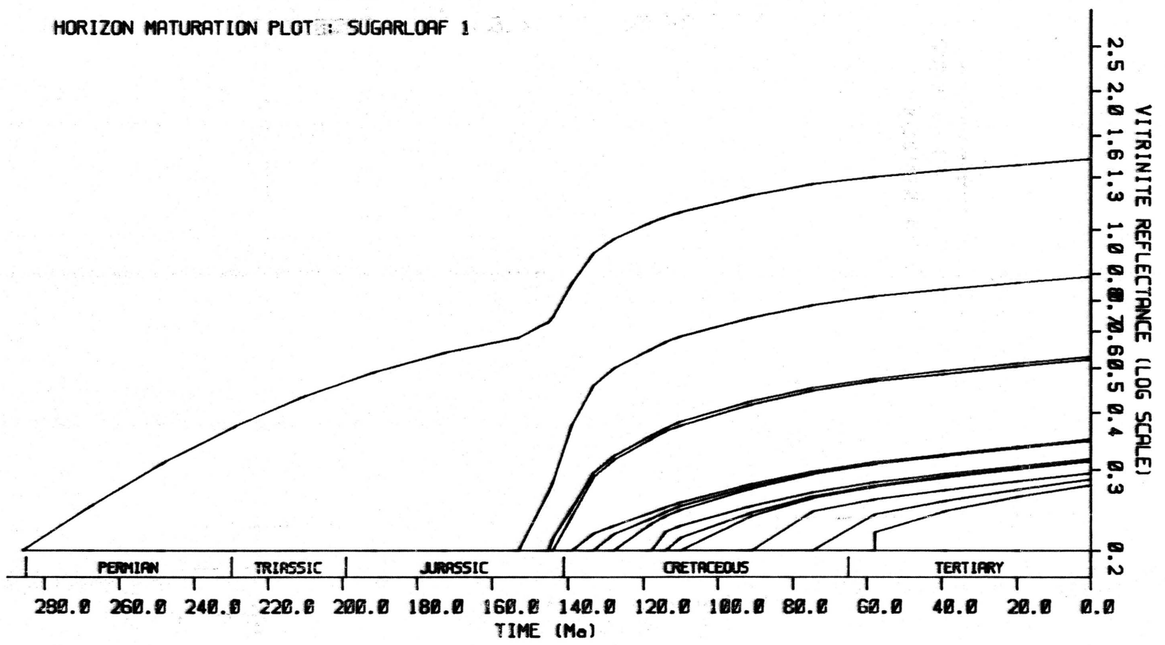


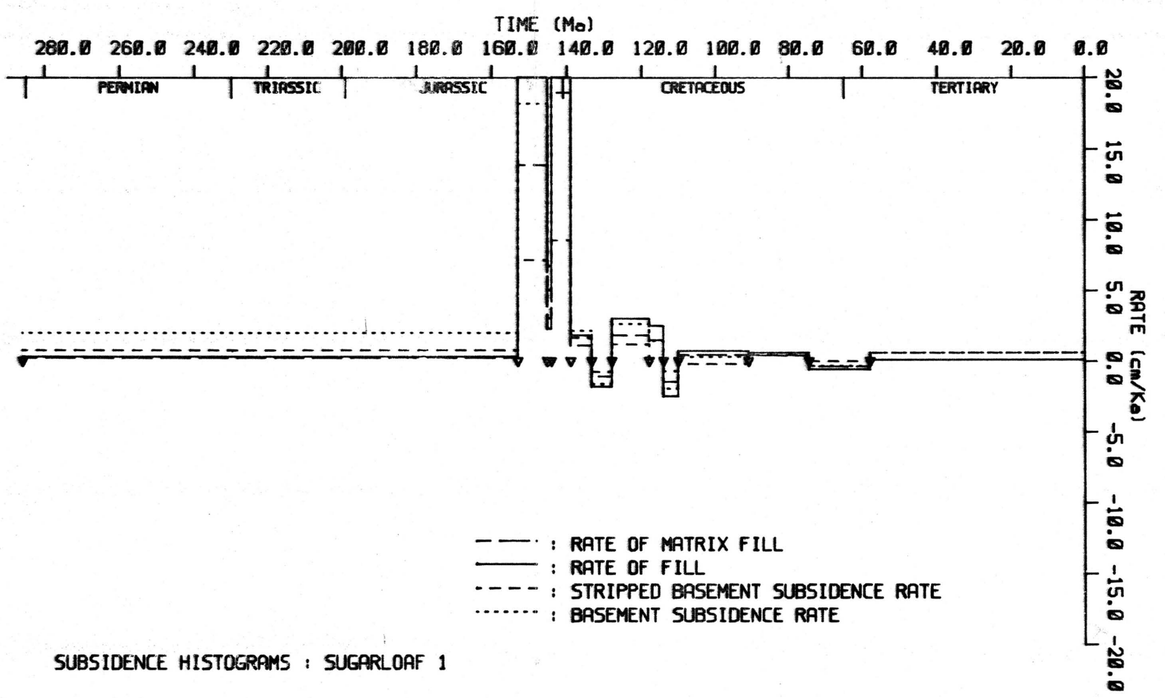


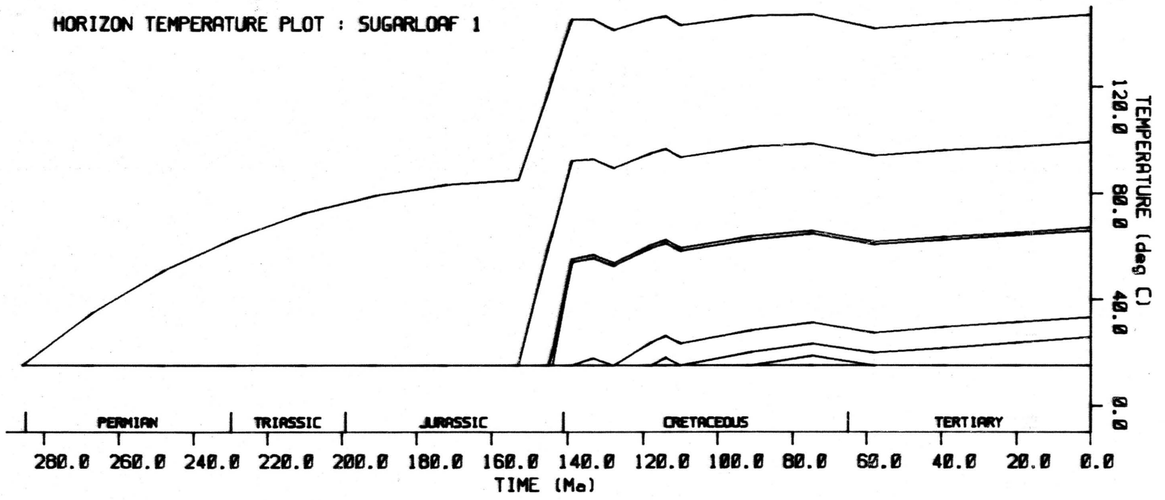
COMPUTED vs OBSERVED VITRINITE REFLECTANCE PLOT : ROE 1

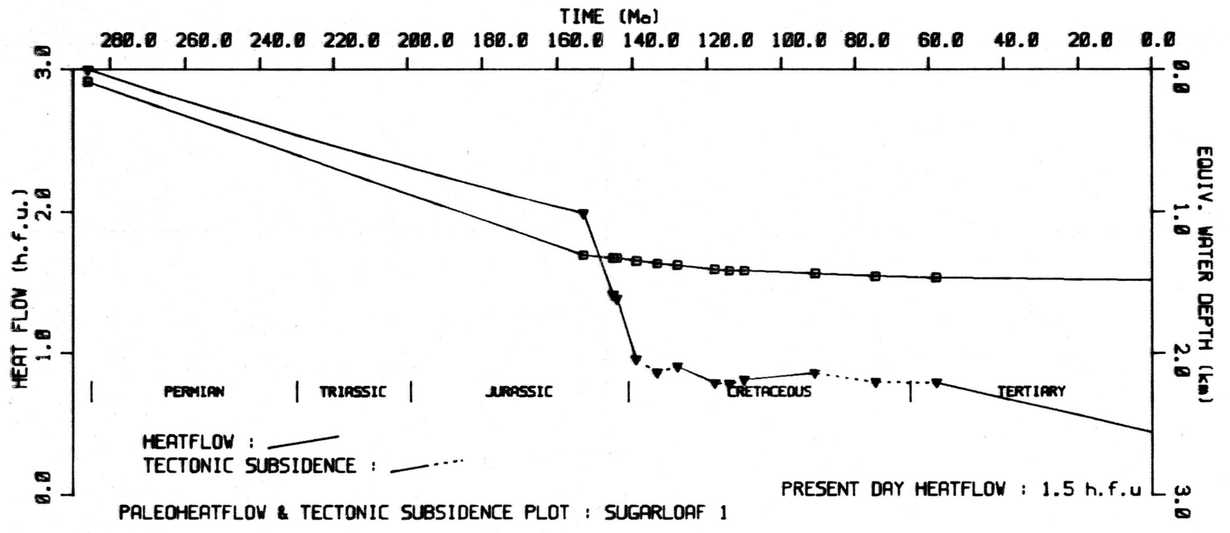
COMPOSITE GEOHISTORY PLOTS
ROE 1
VS = 1:33,333

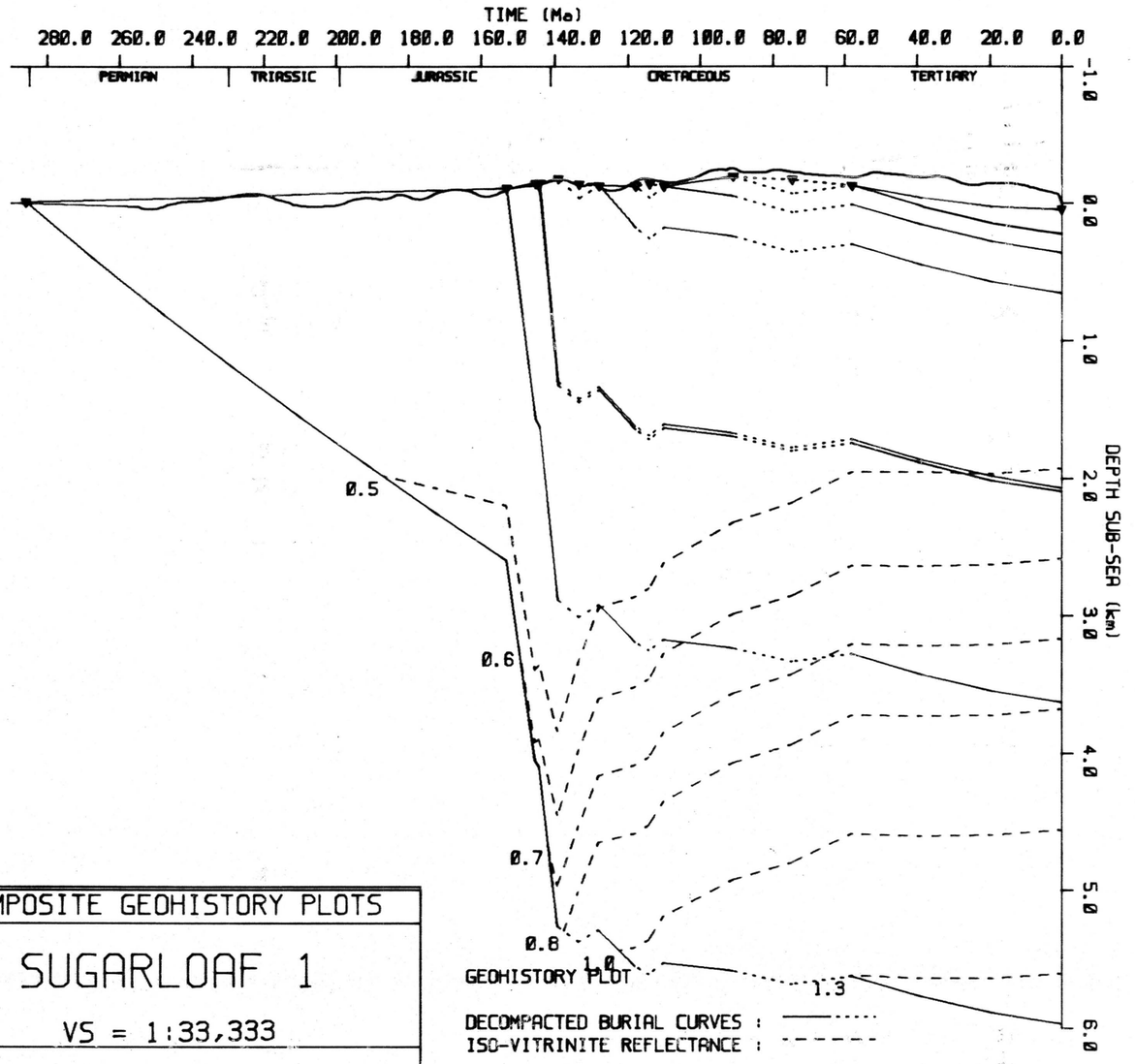
Record 1989/23

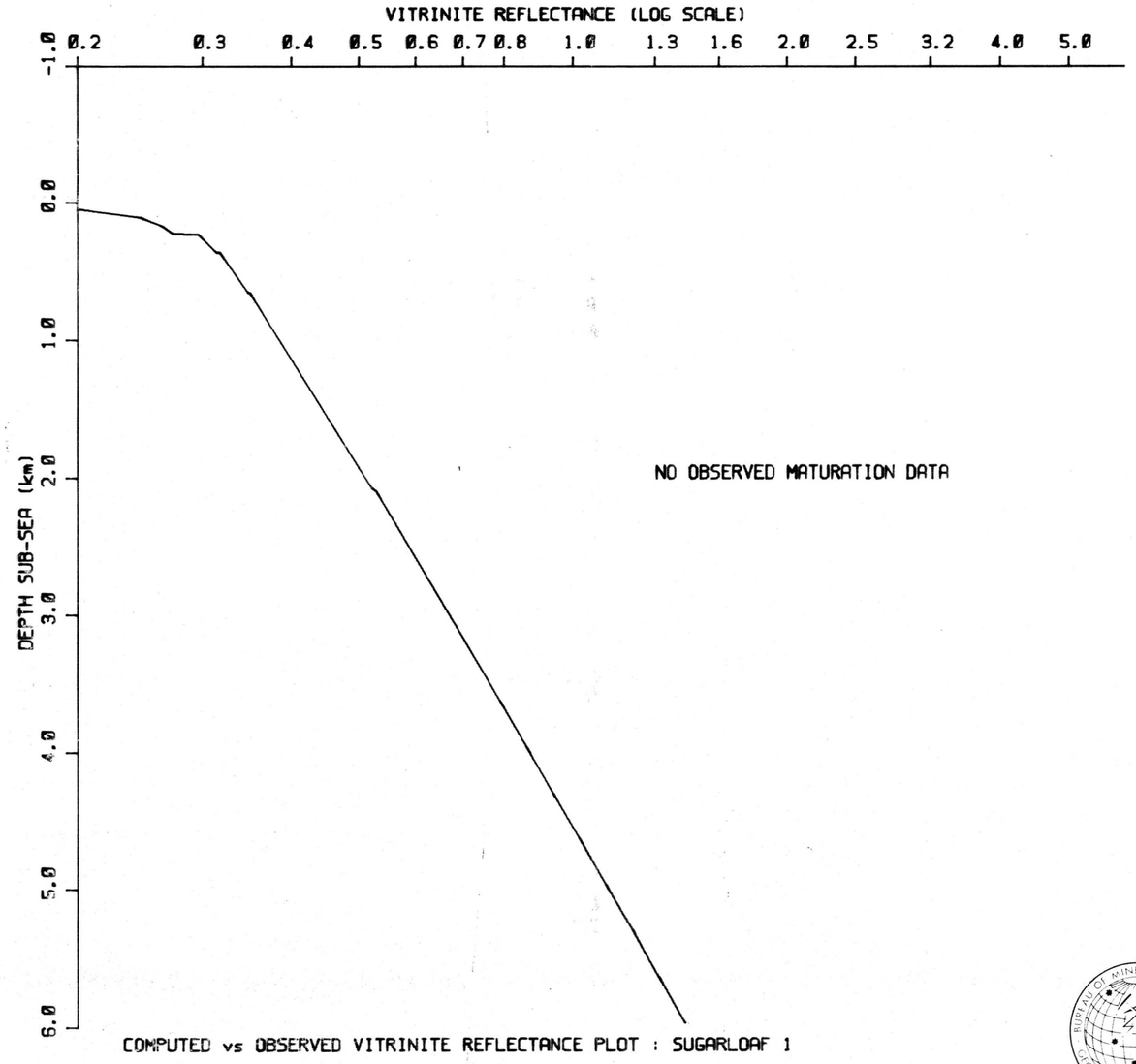








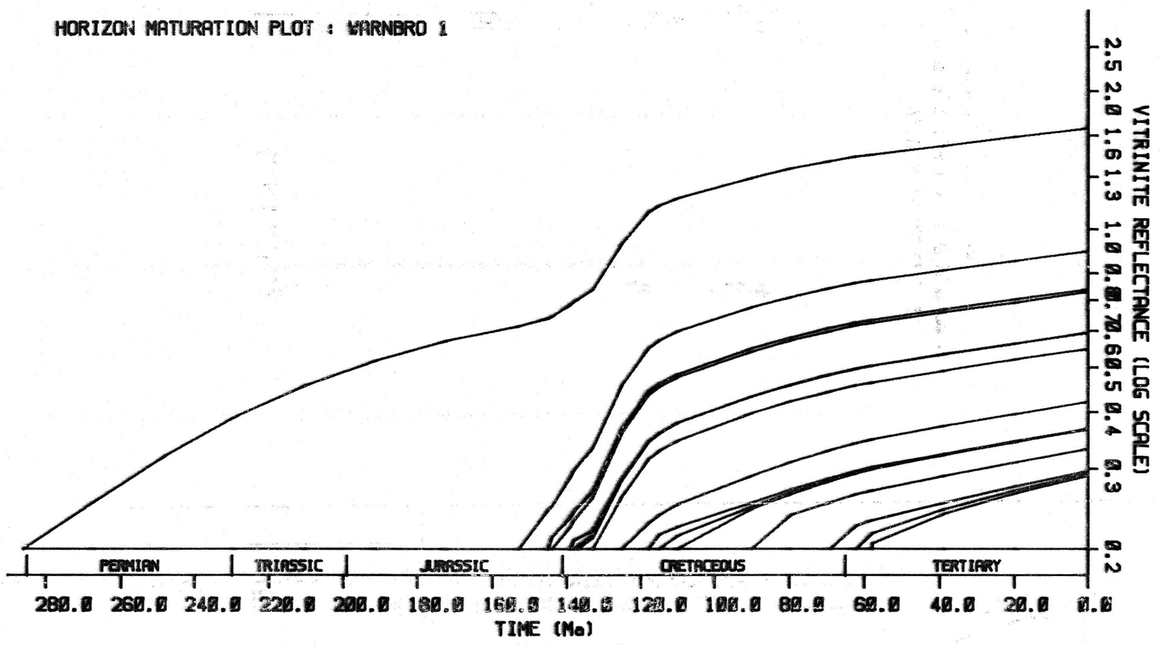


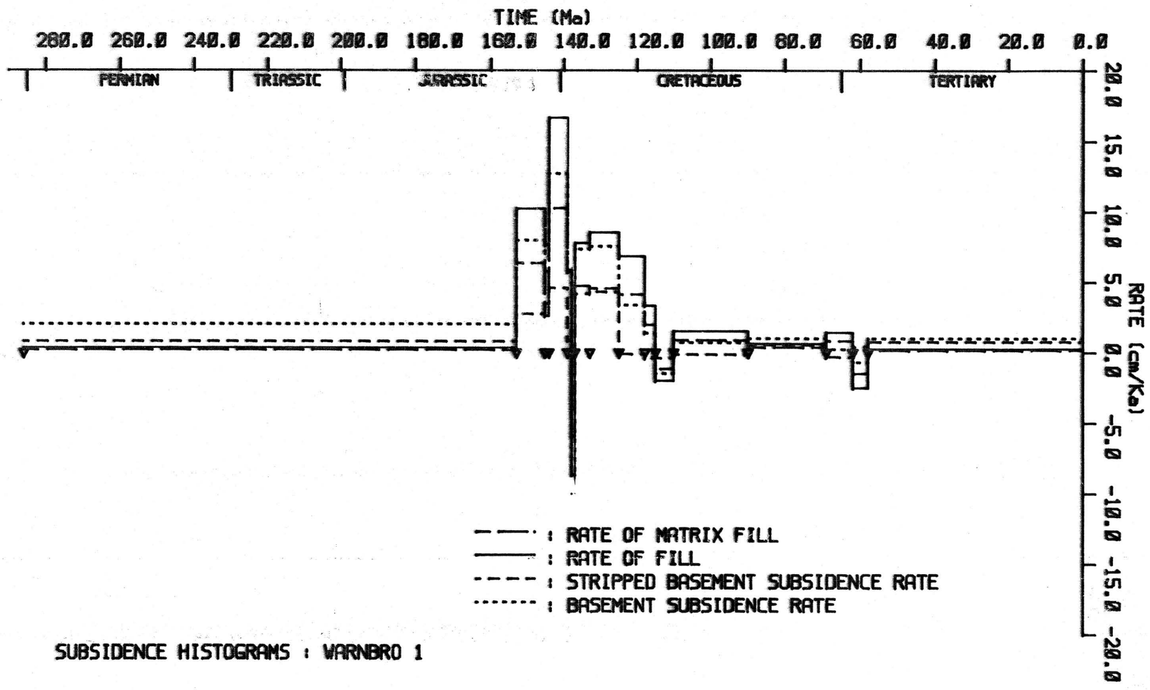


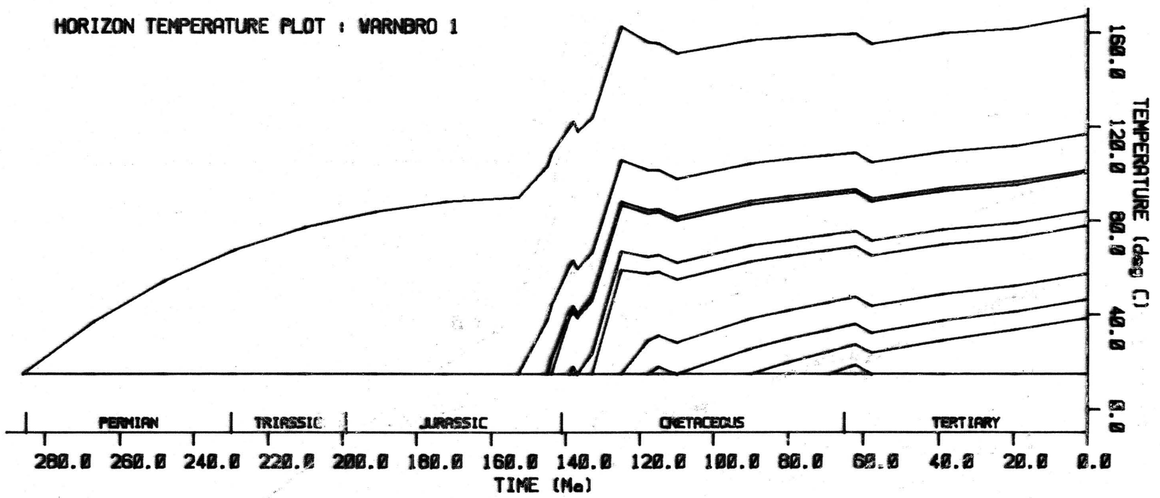
COMPOSITE GEOHISTORY PLOTS

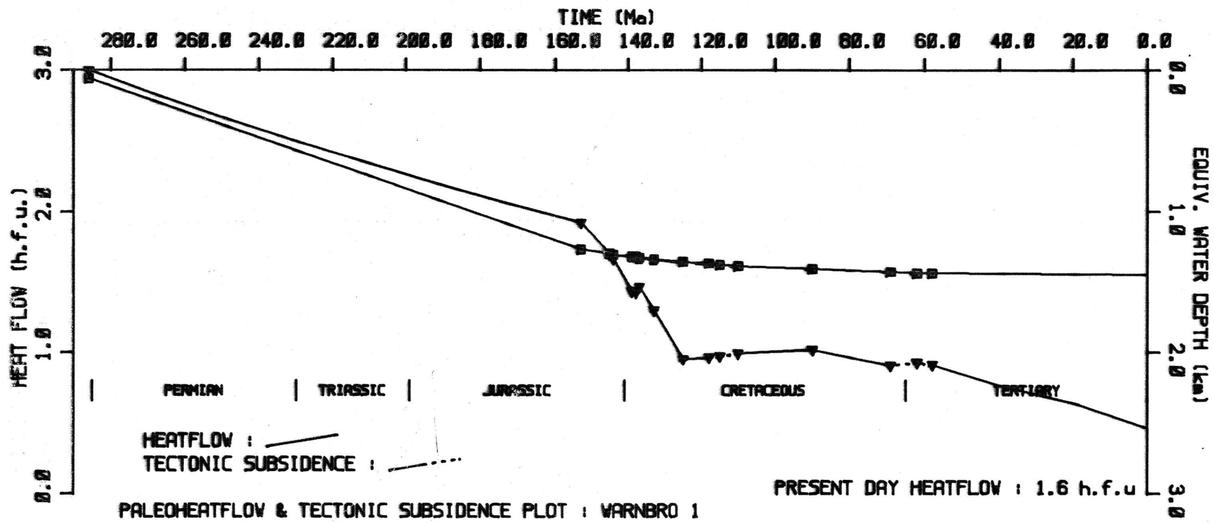
SUGARLOAF 1

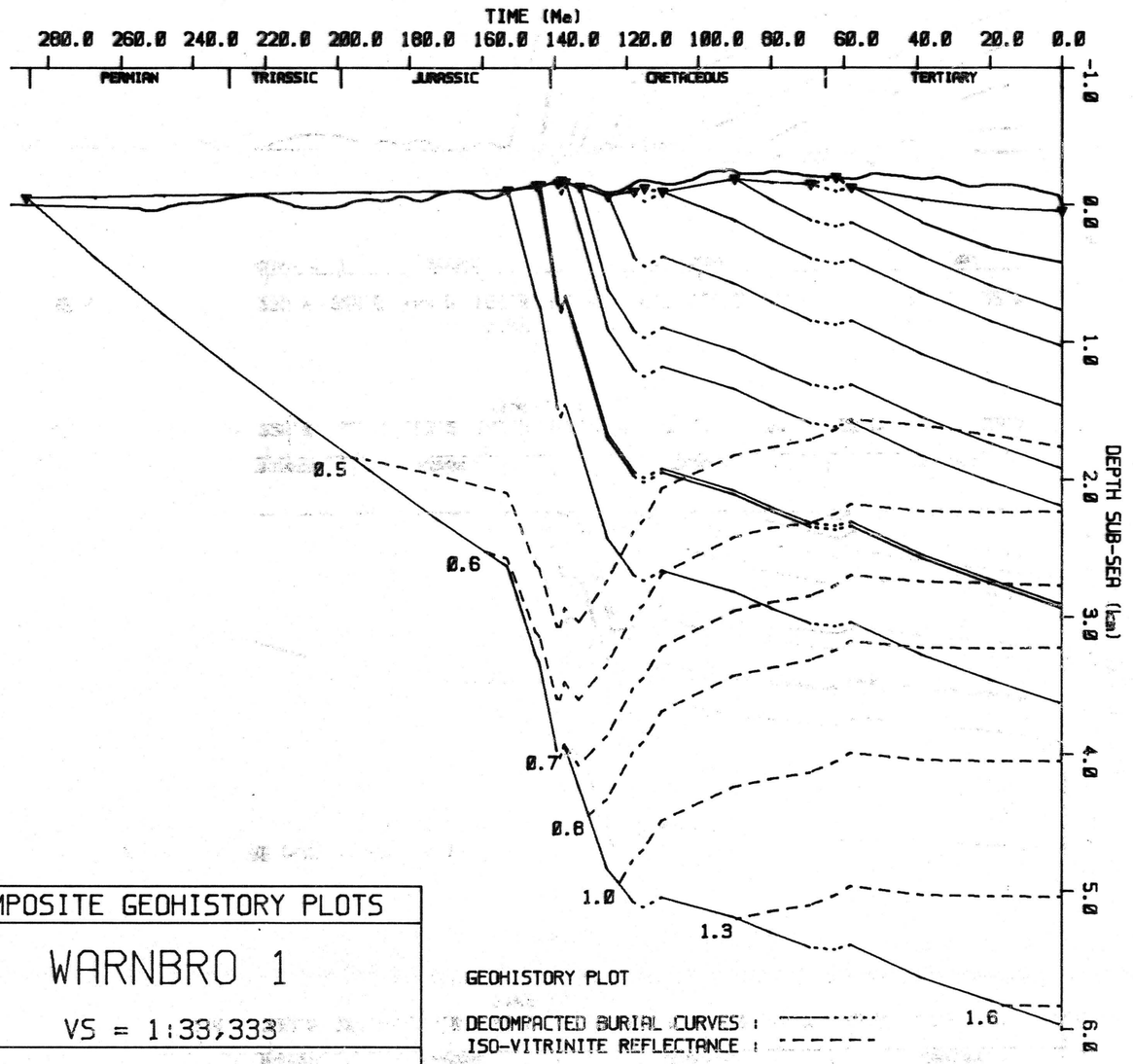
VS = 1:33,333

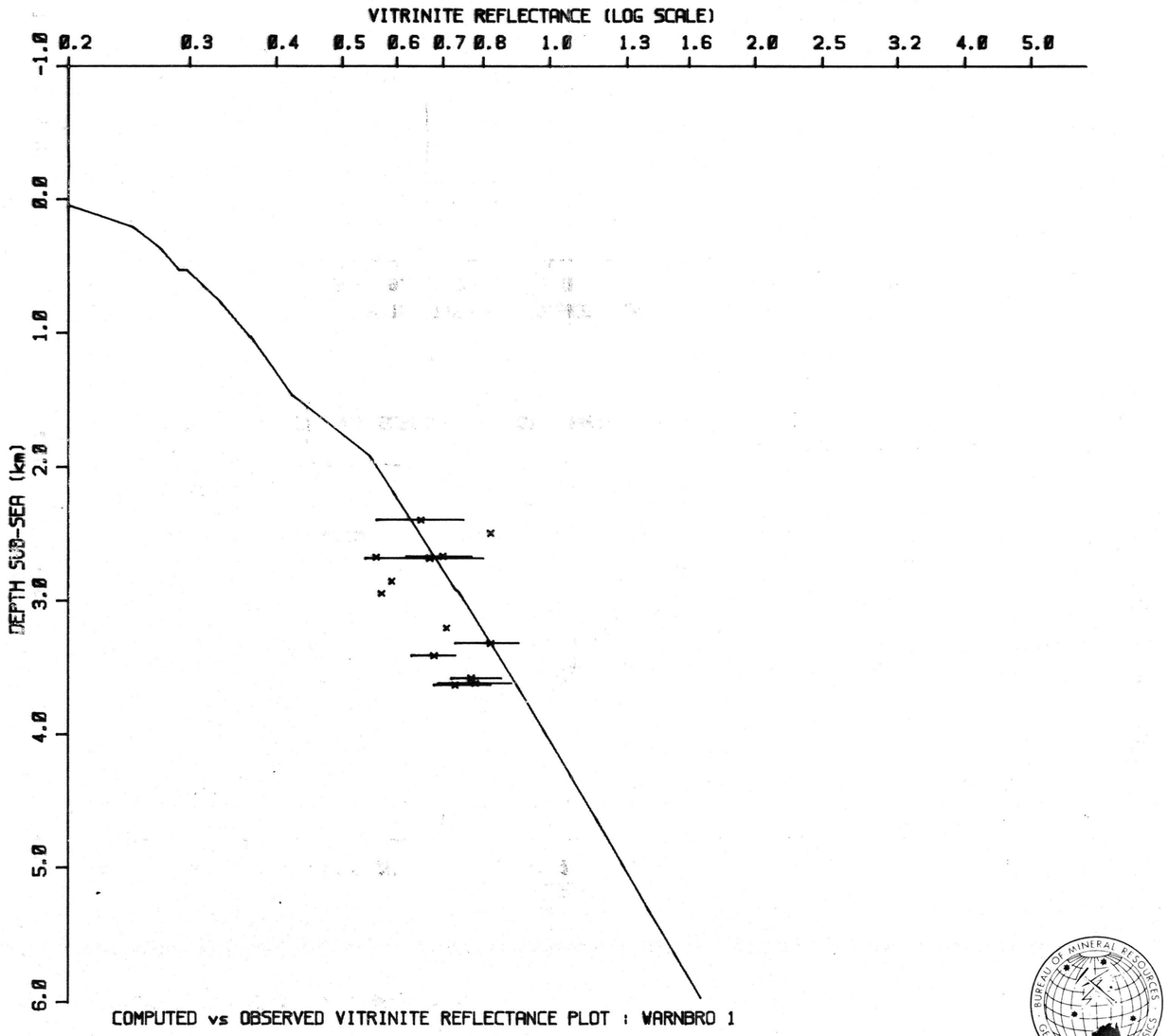












COMPOSITE GEOHISTORY PLOTS

WARNBRO 1

VS = 1:33,333