DEPARTMENT OF MINERAL RESOURCES LIBRARY 3 C JAN 1992 BUREAU OF CANBERRA A.C.T.

113° 114° 115° 116°

31°30'

32°

33°

34°

5000 M
4500 M
4000 M
3500 M
3000 M
2500 M
2000 M
1500 M
1000 M
500 M

Minder Reef
Quinns Rock 1
Charlotte 1
Mullaloo
Roe 1
Gage Roads 2
Gage Roads 1
PERTH
Cockburn 1
Warnbro 1
Peel 1
Parmelia 1
Challenger 1
Bouvard 1
Manduran 1
Pinjarra 1
Sugarloaf 1
Lake Preston 1
Preston 1
Wonnerop 1
Whicher Range 1

NORTHERN TERRITORY
QUEENSLAND
WESTERN AUSTRALIA
SOUTH AUSTRALIA
NEW SOUTH WALES
ACT
VICTORIA
TASMANIA

Universal Transverse Mercator

Scale 1:500 000

0 10 20 30 40 50 Kilometres

BMR 1988

Airgun Array

Watergun Array

ESSO

BP Pet Dev (Aust)

BHP Petroleum

BMR Continental Margin Survey

SHELL Petrel

Record 1989/23

23/OWA/215

Physiography of the continental margin of offshore South Perth Basin, showing the position of wells and seismic lines.

AGE				BIOSTRATIGRAPHY		SOUTHERN DANDARAGAN TROUGH	VLAMING SUB-BASIN	BUNBURY TROUGH	DEPOSITIONAL ENVIRONMENT
				MICROPLANKTON	MIOSPORES				
CAINOZOIC		PLEISTOCENE				KWINANA GROUP	AND	EQUIVALENT UNITS	Coastal dunes/beach
	TERTIARY	PLIOCENE				ASCOT BEDS	UNNAMED CARBONATE UNIT		Marine
		MIOCENE					STARK BAY FORMATION		Marine
		OLIGOCENE							
		EOCENE				KINGS PARK FORMATION			Shallow marine and estuarine
		PALAEOCENE							
MESOZOIC	CRETACEOUS	LATE	MAASTRICHTIAN			POISON HILL GREENSAND	COOLYENA GROUP		Regressive marine
			CAMPANIAN			GINGIN CHALK			Shallow marine shelf
			SANTONIAN			MOLECAP GREENSAND			Shallow marine shelf
			CONIACIAN						
			TURONIAN						
			CENOMANIAN			OSBORNE FORMATION	OSBORNE FORMATION		Shallow transgressive marine
		EARLY	ALBIAN		*Hoegisporis Microflora*				
			APTIAN						
			NEOCOMIAN BARREMIAN	F. *monilifera*	B. *limbata*	LEEDERVILLE FORMATION	LEEDERVILLE FORMATION	LEEDERVILLE FM	Fluvio-deltaic to shallow marine shelf
				B. *jaegeri*					
			HAUTERIVIAN	A. *alata*		SOUTH PERTH SHALE	SOUTH PERTH SHALE		Shallow-water, inner shelf marine
				P. *lowryi*		GAGE SST MEMBER	GAGE SST MEMBER		Fluviafile to shallow marine
			VALANGINIAN	K. *scrutillinum*				BUNBURY BASALT	Lava flows
				G. *mutabilis*					
			BERRIASIAN	F. *tumida*	B. *eneabbaensis*	CARNAC MEMBER	CARNAC MEMBER / PARMELIA FM		Braided channels to fluvio-deltaic and lacustrine
						OTOROWIRI MEMBER	OTOROWIRI MEMBER		
	JURASSIC	LATE	TITHONIAN		A. *acusus*	YARRAGADEE FORMATION	YARRAGADEE FORMATION	YARRAGADEE FORMATION	(Lacustrine to fluvio-deltaic)
			KIMMERIDGIAN		R. *watheroensis*				
			OXFORDIAN		M. *florida*				
			CALLOVIAN		C. *cooksonii*				Fluviatile braided streams to fan-delta
			BATHONIAN		K. *scaberis*				
		MIDDLE	BAJOCIAN		D. *complex*				
					D. *harrisii*	CADDA FORMATION			Shallow marine shelf to paralic
		EARLY	TOARCIAN		C. *chateaunovi*	COCKLESHELL GULLY FORMATION		COCKLESHELL GULLY FORMATION	Fluviatile to marginal marine
			PLIENSBACHIAN						
			SINEMURIAN						
			HETTANGIAN						
	TRIASSIC	LATE	RHAETIAN			LESUEUR SANDSTONE		LESUEUR SANDSTONE	Fluviatile braided streams to fan-delta
			NORIAN						
			CARNIAN						
		MID	LADINIAN						
			ANISIAN						
		EARLY	SCYTHIAN						
PALAEOZOIC	PERMIAN	LATE	TATARIAN			SABINA SANDSTONE		SABINA SANDSTONE	Fluviatile to marginal marine
			KAZANIAN						
		EARLY	KUNGURIAN			SUE COAL MEASURES		SUE COAL MEASURES	Fluviatile to brackish water
			ARTINSKIAN						
			SAKMARIAN						

23/OWA/216

BUREAU OF MINERAL RESOURCES LIBRARY

BMR Record 89/23 Plate No. 3

WELL NAME : QUINNS ROCK 1

BUREAU OF MINERAL RESOURCES Plate 3.

Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : WAPET

TOTAL DEPTH : 2209m

LOCATION LAT : 31 48'09"S

ELEVATIONS WATER DEPTH : 40.5m

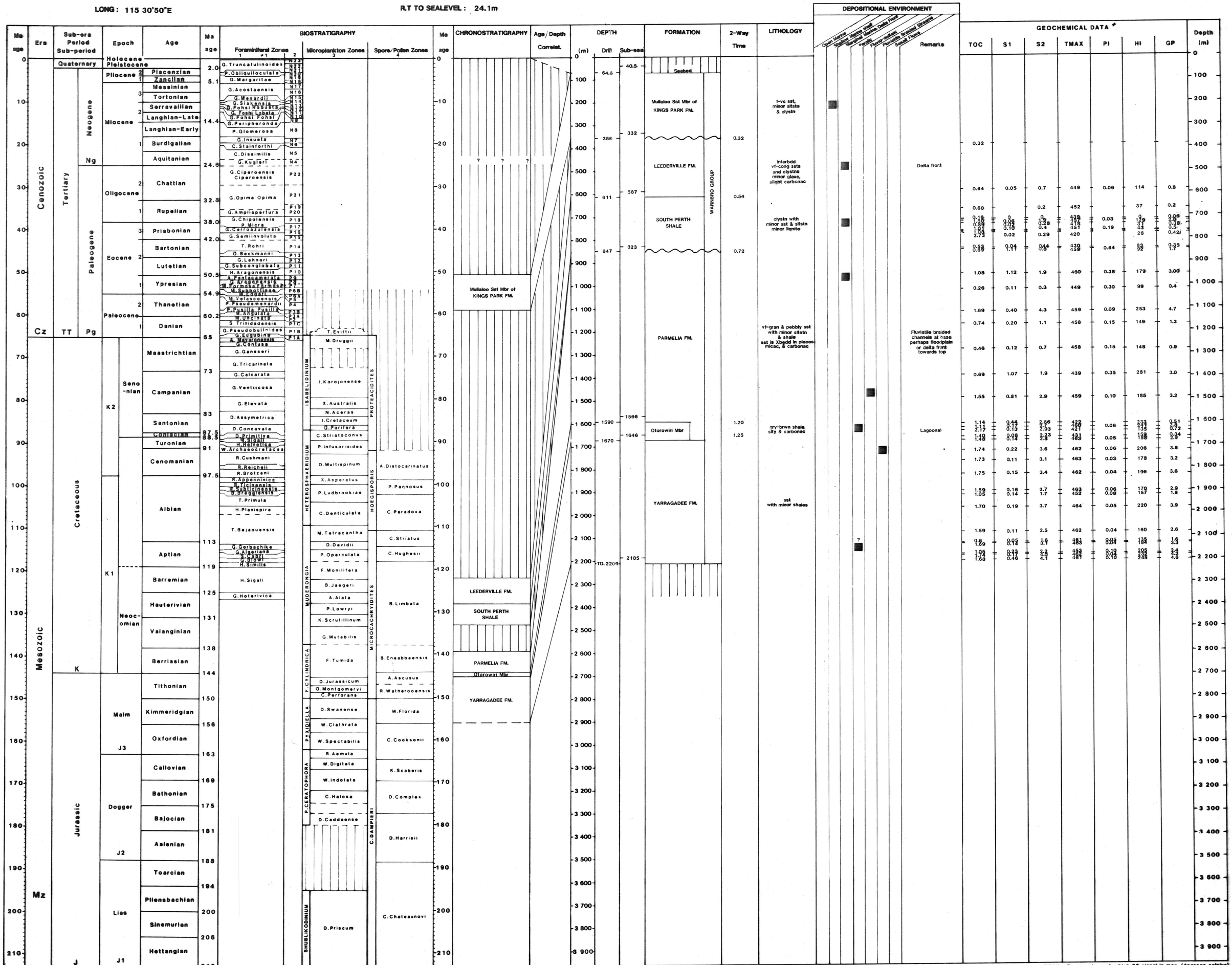
SPUD DATE: 10.10.68

COMPLETION DATE : 21.11.68 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 30'50"E

R.T TO SEALEVEL : 24.1m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982 A Geologic time scale Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)

1* Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977), Romano (1978), Robaszynski et al.(1979,1984), and Caron (1985).

2 After:Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)

TOC : Total Organic Carbon (%)

S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons/g rock)

S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons/g rock)

TMAX : Temperature at which S2 signal is max. (degrees celsius)

PI : Production Index S1(S1+S2)

HI : Hydrogen Index (mg hydrocarbons/g organic carbon)

GP : Genetic Potential (Kg hydrocarbons/ton rock) (S1+S2)

Record 1989/23

Well analysis diagram — Quinn's Rock 1.

BMR Record 89/23 Plate No. 4

WELL NAME : GAGE ROADS 1

BUREAU OF MINERAL RESOURCES Plate 4.

Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : WAPET

TOTAL DEPTH : 3660.3m

LOCATION LAT : 31 57'12"S

ELEVATIONS WATER DEPTH : 58.3m

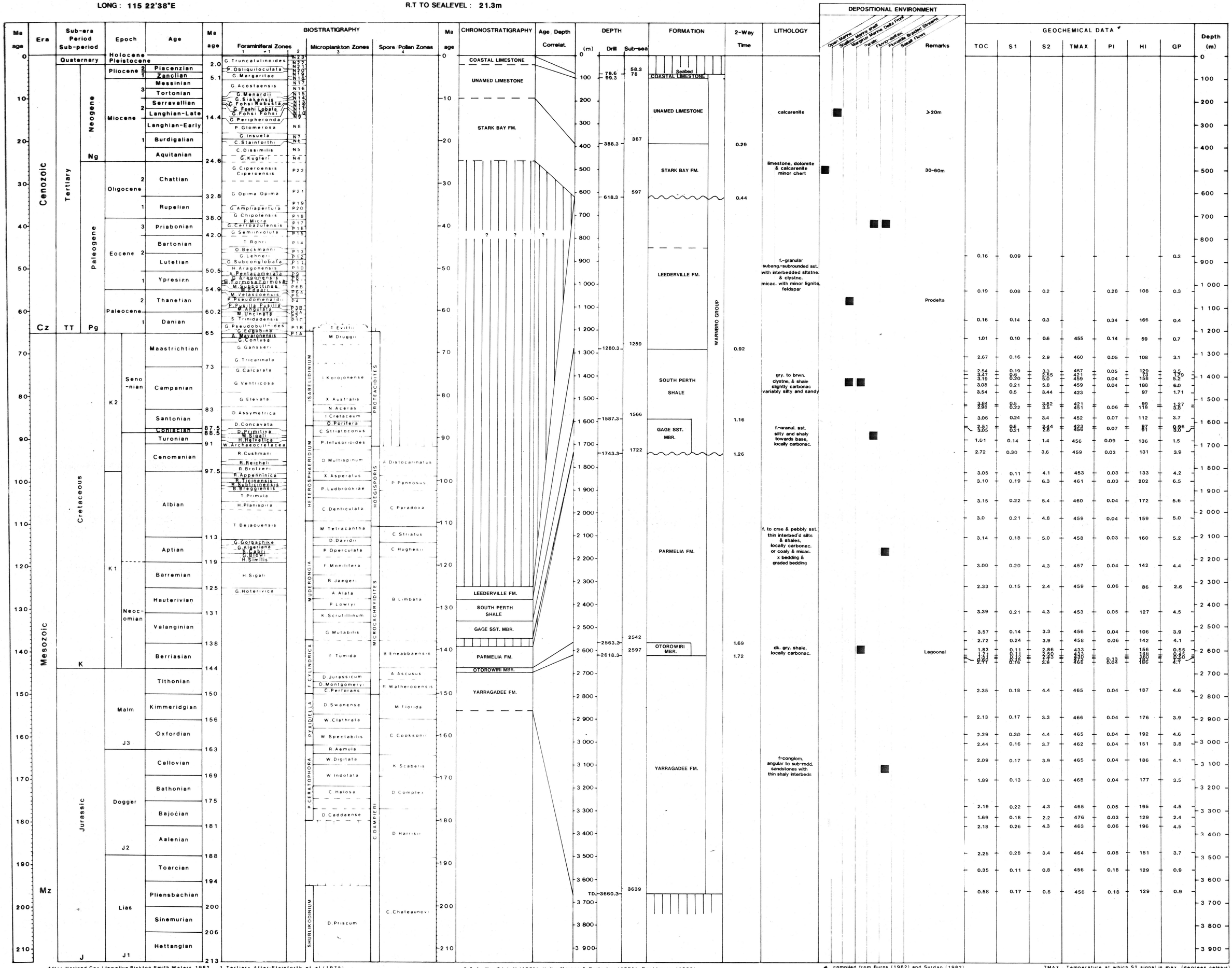
SPUD DATE: 27.11.68

COMPLETION DATE : 21.3.69 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 22'38"E

R.T TO SEALEVEL : 21.3m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982 **A Geologic time scale** Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)
1* Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977) Remane (1978), Robaszynski et al.(1979,1984), and Caron (1985).
2 After:Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)
TOC Total Organic Carbon (%)
S1 Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons g rock)
S2 Pyrolysis kerogen signal (mg S2 hydrocarbons g rock)
TMAX Temperature at which S2 signal is max. (degrees celsius)
PI Production Index S1(S1+S2)
HI Hydrogen Index (mg hydrocarbons g organic carbon)
GP Genetic Potential (Kg hydrocarbons ton rock) (S1+S2)

Record 1989/23

Well analysis diagram — Gage Roads 1.

BMR Record 89/23 Plate No. 5

WELL NAME : ROE 1

BUREAU OF MINERAL RESOURCES Plate 5.
Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : WAPET

TOTAL DEPTH : 2134m

LOCATION LAT : 31 56'26"S

ELEVATIONS WATER DEPTH : 102.5m

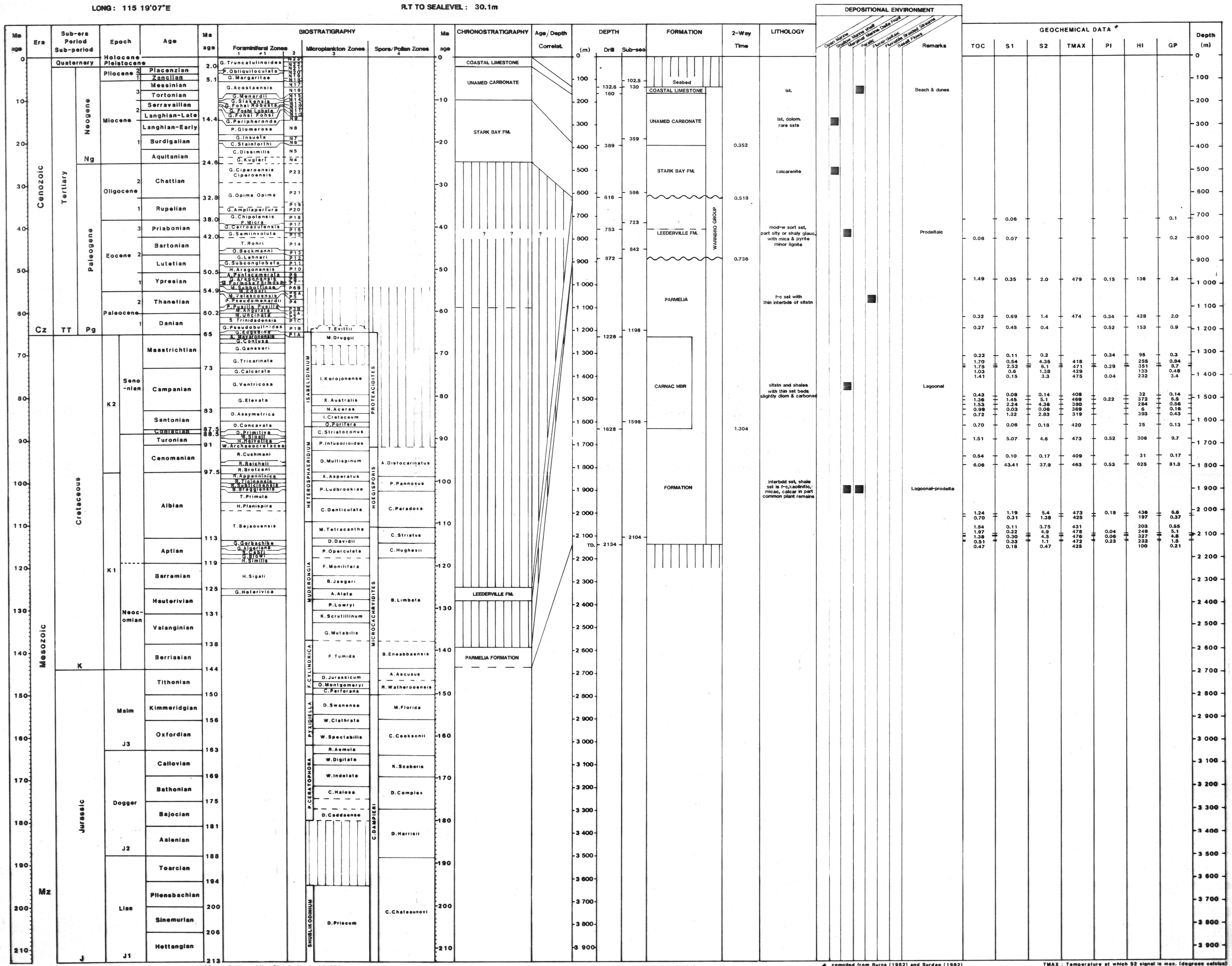
SPUD DATE: 23.11.70

COMPLETION DATE : 18.12.70 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 19'07"E

R.T TO SEALEVEL : 30.1m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982
A Geologic time scale Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)
1* Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977), Romano (1978), Nebesynski et al.(1979,1984), and Caron (1985).
2 After:Stow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)
TOC : Total Organic Carbon (%)
S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons/g rock)
S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons/g rock)
TMAX : Temperature at which S2 signal is max. (degrees celsius)
PI : Production Index S1(S1+S2)
HI : Hydrogen Index (mg hydrocarbons/g organic carbon)
GP : Genetic Potential (Kg hydrocarbons/ton rock) (S1+S2)

Well analysis diagram — Roe 1.

BMR Record 89/23 Plate No.6

WELL NAME : WARNBRO 1

BUREAU OF MINERAL RESOURCES Plate 6.

Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : WAPET

TOTAL DEPTH : 3660m

LOCATION LAT : 32 14'20"S

ELEVATIONS WATER DEPTH : 47m

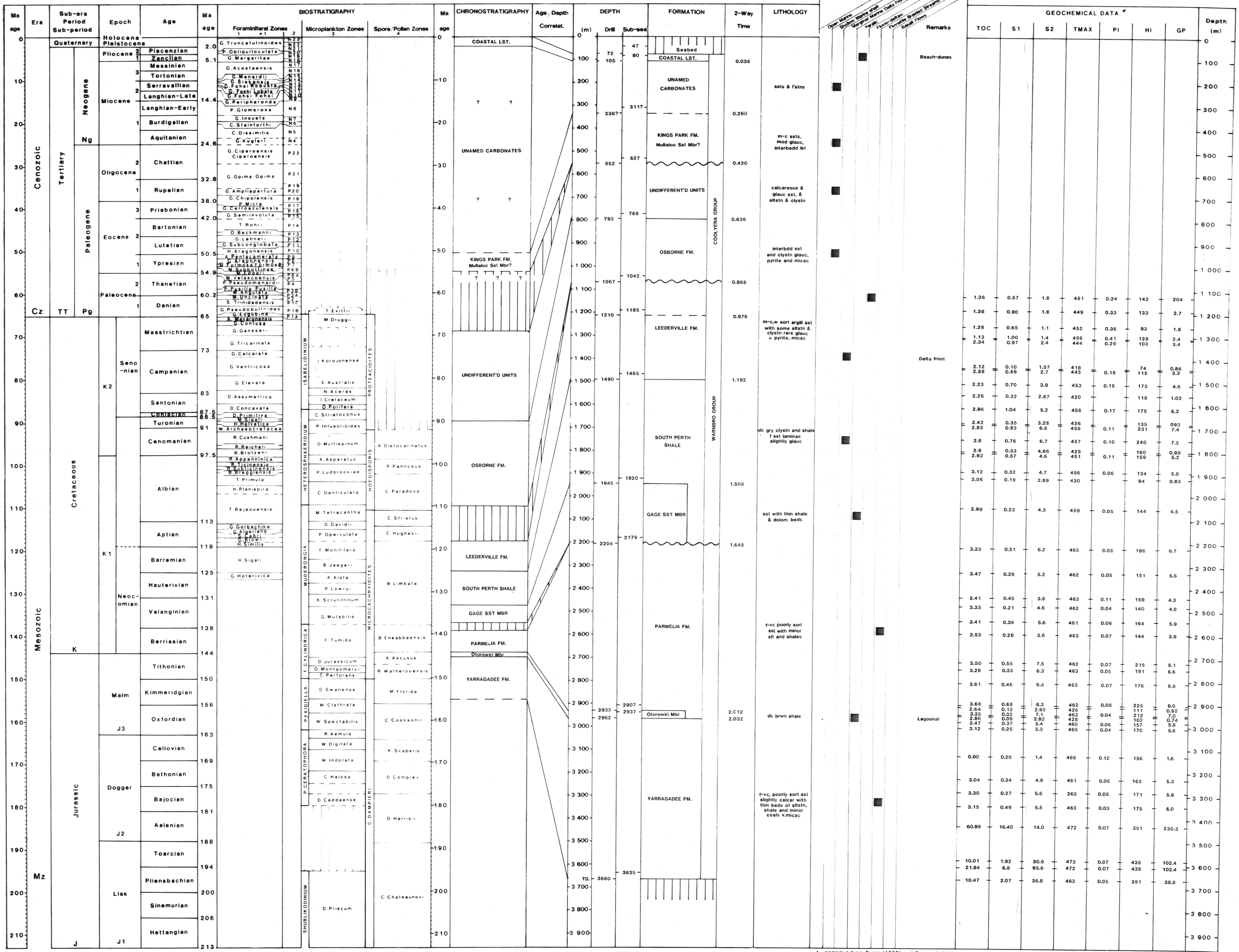
SPUD DATE: 26.11.70

COMPLETION DATE : 18.1.71 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 20'45"E

R.T TO SEALEVEL : 25m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982
A Geologic time scale Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)
1* Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boorama (1977) Remane (1978), Robasynski et al.(1979,1984), and Caron (1985).
2 After:Blow (1969) and Berggren (1972)
3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)
TOC Total Organic Carbon (%)
S1 Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons g rock)
S2 Pyrolysis kerogen signal (mg S2 hydrocarbons g rock)
TMAX Temperature at which S2 signal is max. (degrees celsius)
PI Production Index S1(S1+S2)
HI Hydrogen Index (mg hydrocarbons g organic carbon)
GP Genetic Potential (Kg hydrocarbons ton rock) (S1+S2)

Well analysis diagram — Warnbro 1.

DMR Record 89/23 Plate No. 7

WELL NAME : CHARLOTTE 1

Plate 7.

BUREAU OF MINERAL RESOURCES

Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : WAPET

TOTAL DEPTH : 2435m

LOCATION LAT : 31°48'36"S

ELEVATIONS

WATER DEPTH : 42m

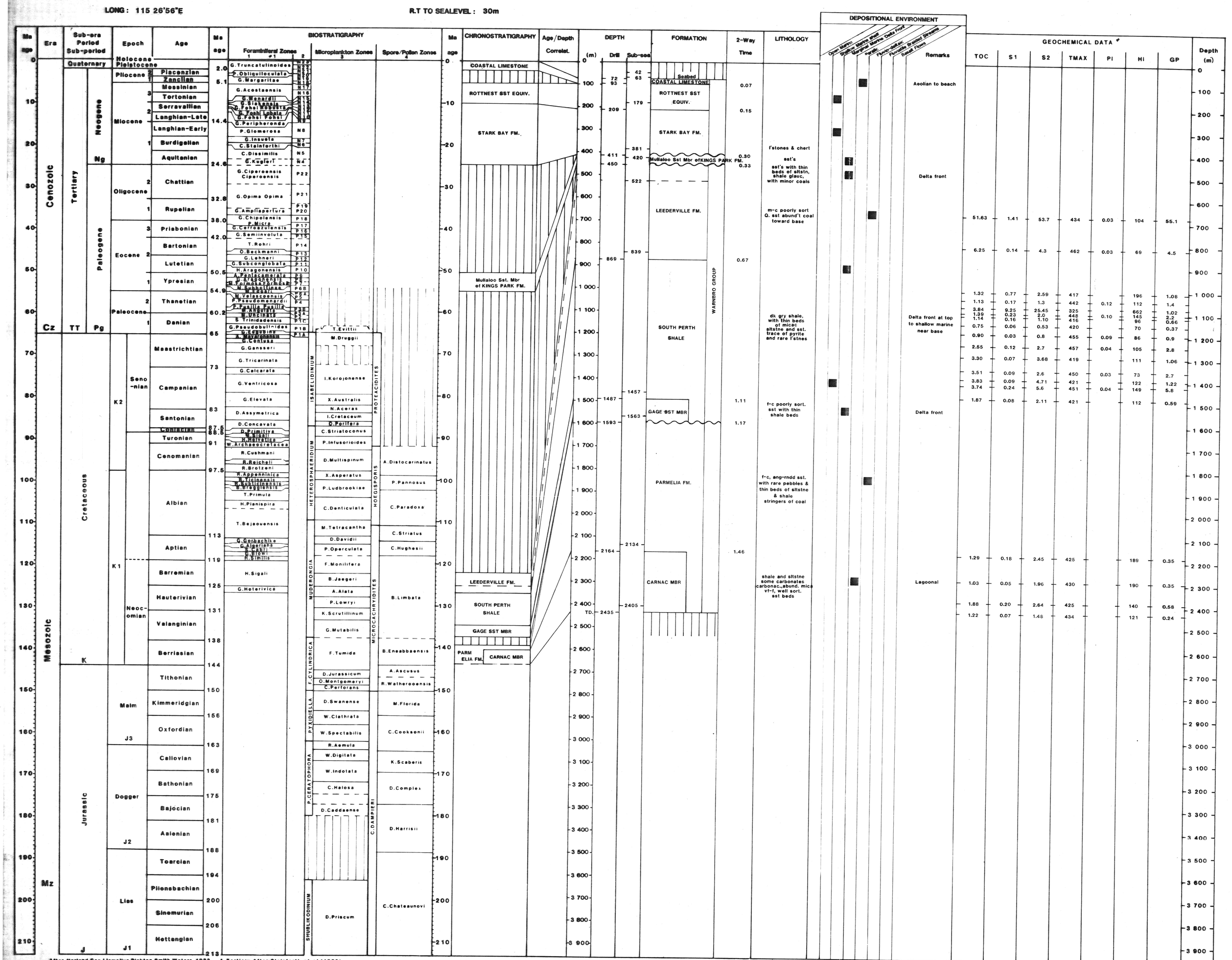
SPUD DATE: 19.12.70

COMPLETION DATE : 12.1.71 (rig release)

STATUS : Plugged & Abandoned

LONG : 115°26'56"E

R.T TO SEALEVEL : 30m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982 A Geologic time scale Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)
1* Cretaceous After: Atlieman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Roersma (1977). Romano (1976), Robaszynski et al.(1979,1984), and Caron (1985).
2 After:Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

compiled from Burns (1982) and Surdan (1982)
TOC : Total Organic Carbon (%)
S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons g rock)
S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons g rock)
TMAX : Temperature at which S2 signal is max. (degrees celsius)
PI : Production Index S1(S1+S2)
HI : Hydrogen Index (mg hydrocarbons/g organic carbon)
GP : Genetic Potential (Kg hydrocarbons/ton rock) (S1+S2)

Record 1989/23

Well analysis diagram — Charlotte 1.

BMR Record 89/23 Plate No. 8

WELL NAME : GAGE ROADS 2

BUREAU OF MINERAL RESOURCES Plate 8.

Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : WAPET

TOTAL DEPTH : 2972m

LOCATION LAT : 31 57'05"S

ELEVATIONS WATER DEPTH : 73m

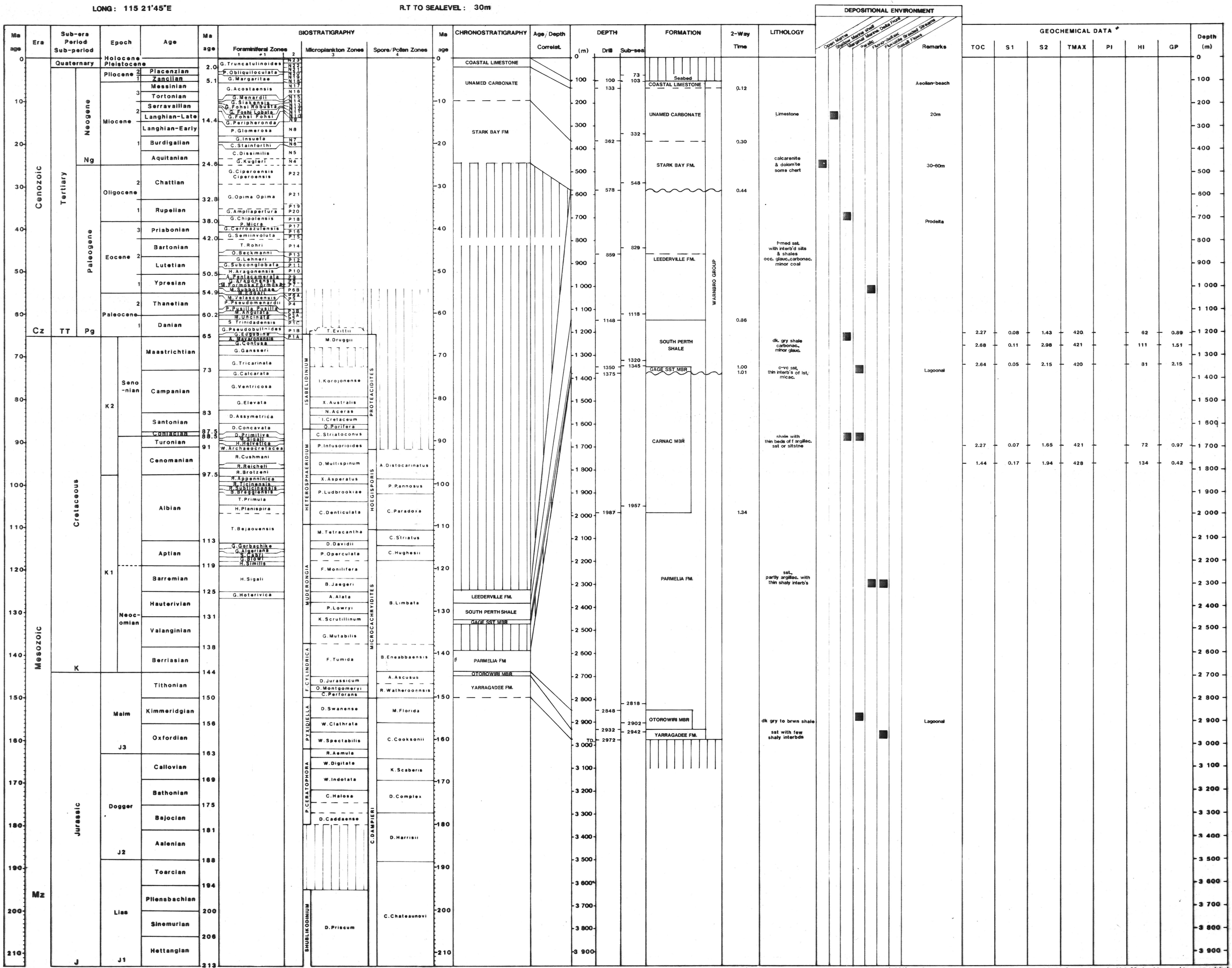
SPUD DATE: 14.1.71

COMPLETION DATE : 12.2.71 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 21'45"E

R.T TO SEALEVEL : 30m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982
A Geologic time scale Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)
1* Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977), Romano (1978), Robaszynski et al.(1979,1984), and Caron (1985).
2 After:Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)
TOC : Total Organic Carbon (%)
S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons/g rock)
S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons/g rock)

TMAX : Temperature at which S2 signal is max. (degrees celsius)
PI : Production Index S1(S1+S2)
HI : Hydrogen Index (mg hydrocarbons/g organic carbon)
GP : Genetic Potential (Kg hydrocarbons/ton rock) (S1+S2)

Record 1989/23

Well analysis diagram — Gage Roads 2.

WELL NAME : SUGARLOAF 1

Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : WAPET

TOTAL DEPTH : 3658m

LOCATION LAT : 32 54'55"S

ELEVATIONS WATER DEPTH : 46m

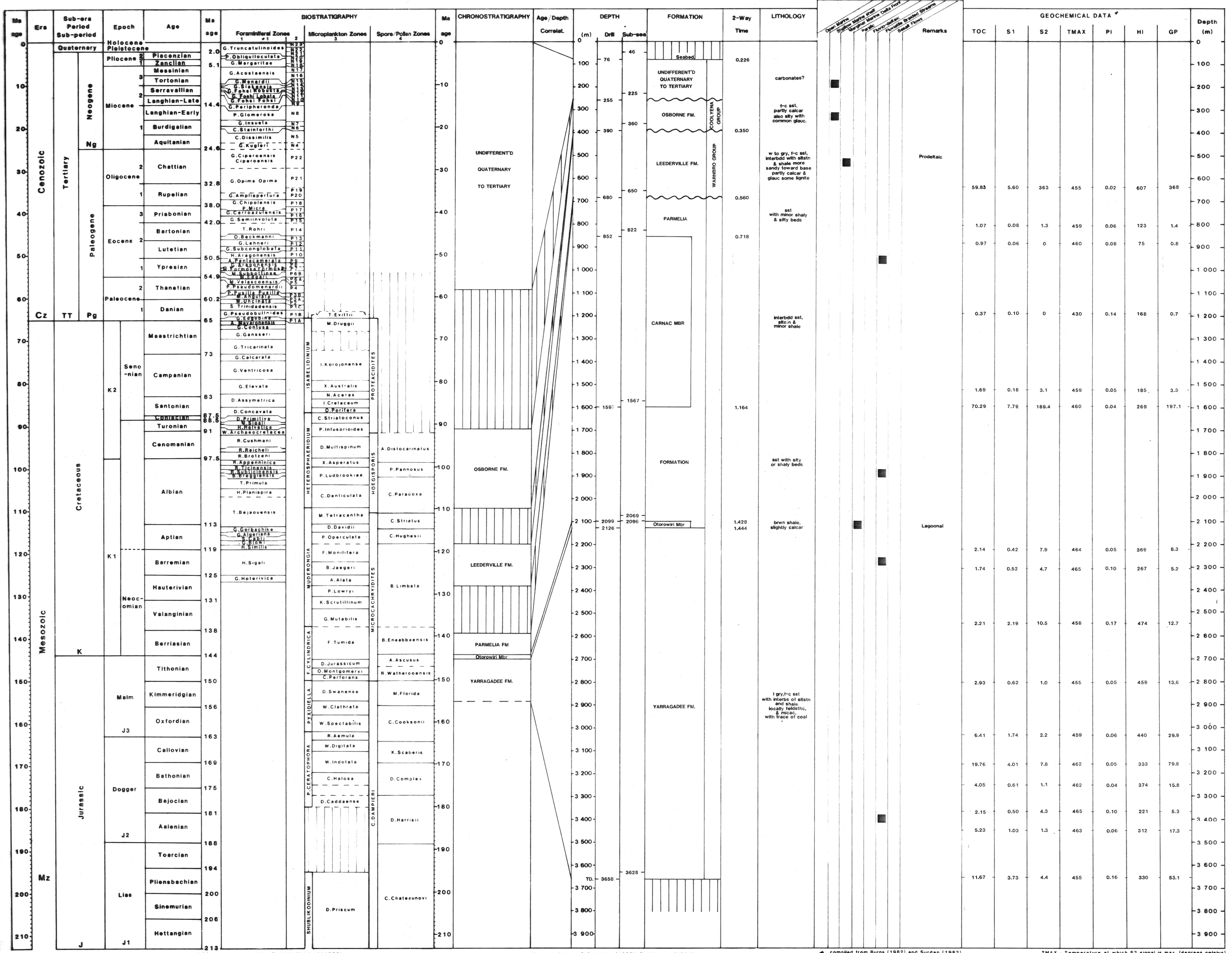
SPUD DATE: 14.2.71

COMPLETION DATE : 12.4.71 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 03'09"E

R.T TO SEALEVEL : 30m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982 **A Geologic time scale** Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)

1+ Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977), Remane (1978), Robaszynski et al.(1979,1984), and Caron (1985).

2 After:Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)

TOC : Total Organic Carbon (%)

S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons g rock)

S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons g rock)

TMAX : Temperature at which S2 signal is max. (degrees celsius)

PI : Production Index S1(S1+S2)

HI : Hydrogen Index (mg hydrocarbons g organic carbon)

GP : Genetic Potential (Kg hydrocarbons ton rock) (S1+S2)

Well analysis diagram — Sugarloaf 1.

DMR Record 89/23 Plate No.10

WELL NAME : BOUVARD 1

BUREAU OF MINERAL RESOURCES Plate 10.

Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : WAPET

TOTAL DEPTH : 1980m

LOCATION LAT : 32 31'26"S

ELEVATIONS WATER DEPTH : 51m

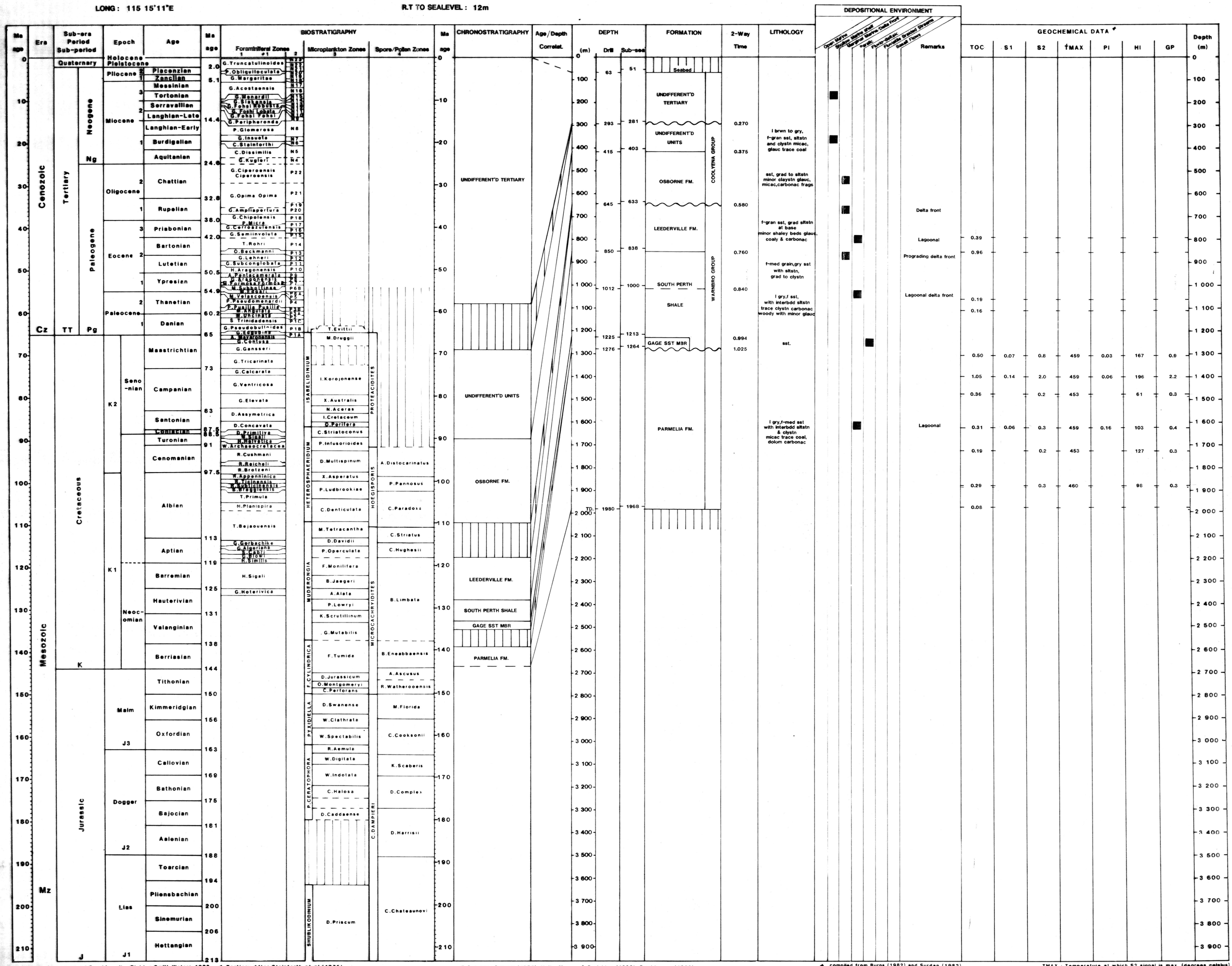
SPUD DATE: 3.1.75

COMPLETION DATE : 3.2.75 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 15'11"E

R.T TO SEALEVEL : 12m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982
A Geologic time scale Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)
1+ Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977), Romano (1978), Robaszynski et al.(1979,1984), and Caron (1985).
2 After:Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)
TOC : Total Organic Carbon (%)
S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons g rock)
S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons g rock)
TMAX : Temperature at which S2 signal is max. (degrees celsius)
PI : Production Index S1(S1+S2)
HI : Hydrogen Index (mg hydrocarbons g organic carbon)
GP : Genetic Potential (Kg hydrocarbons /ton rock) (S1+S2)

Well analysis diagram — Bouvard 1.

DMR Record 89/23 Plate No.11

WELL NAME : CHALLENGER 1

BUREAU OF MINERAL RESOURCES

Plate 11.

Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : WAPET

TOTAL DEPTH : 2 250m

LOCATION LAT : 32 25' 20.784"S

ELEVATIONS WATER DEPTH : 212m

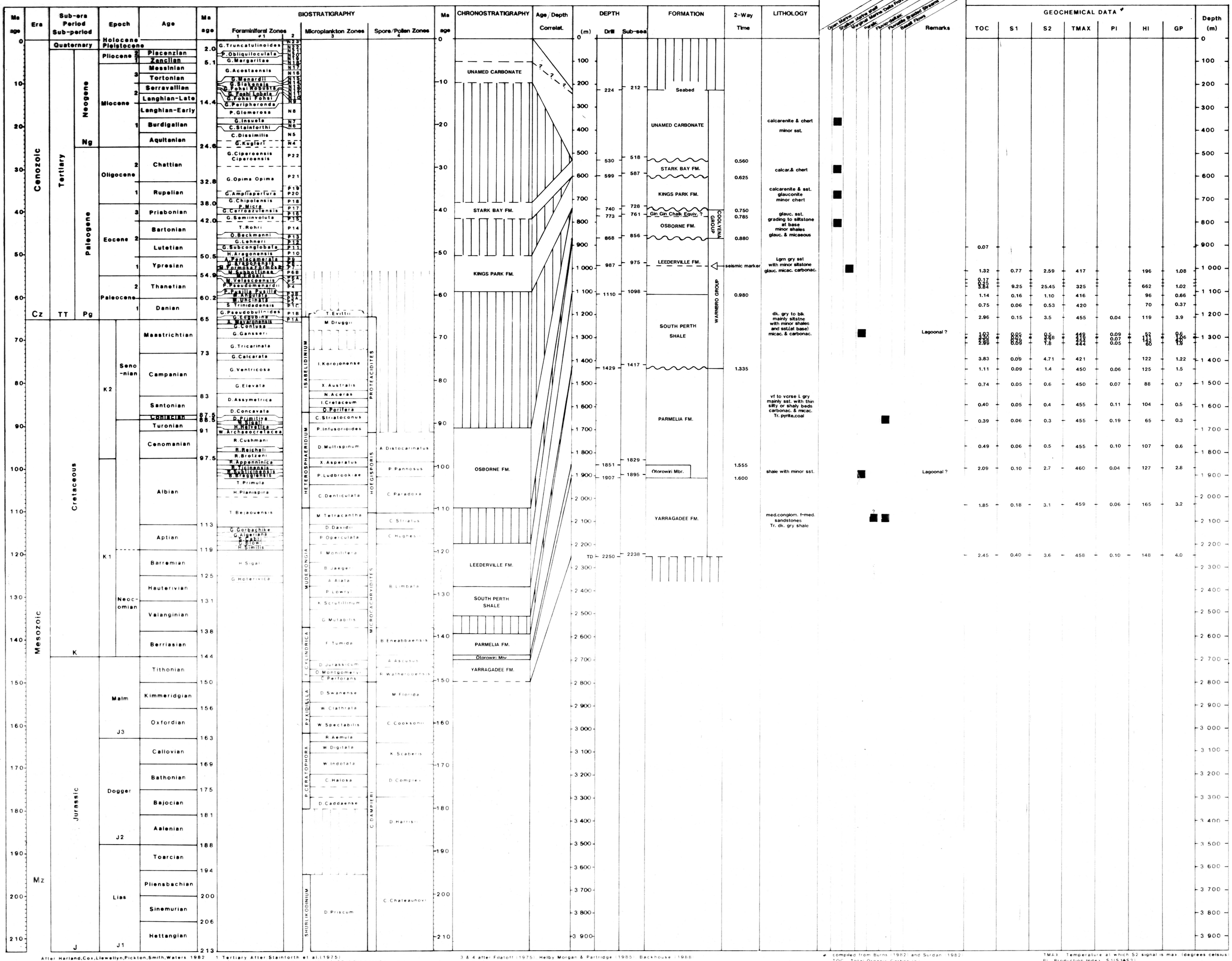
SPUD DATE: 19.3.75

COMPLETION DATE : 3.4.75 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 00' 46.288"E

R.T TO SEALEVEL : 12m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982
A Geologic time scale Cambridge University Press

1 Tertiary After Stainforth et al.(1975)
1* Cretaceous After Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977) Remane (1976), Robaszynski et al.(1978,1984), and Caron (1985).
2 After Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdam (1982)
TOC : Total Organic Carbon (%)
S1 : Pyrolysis free hydrocarbon signal (mg S2 hydrocarbons g rock)
S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons g rock)
TMAX : Temperature at which S2 signal is max. (degrees celsius)
PI : Production Index S1(S1+S2)
HI : Hydrogen Index (mg hydrocarbons g organic carbon)
GP : Genetic Potential (Kg hydrocarbons ton rock) (S1+S2)

Record 1989/23

Well analysis diagram — Challenger 1.

WELL NAME : PEEL 1

BUREAU OF MINERAL RESOURCES
Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : PHILLIPS AUST.

TOTAL DEPTH : 3714m

LOCATION LAT : 32 15'15"S

ELEVATIONS WATER DEPTH : 42m

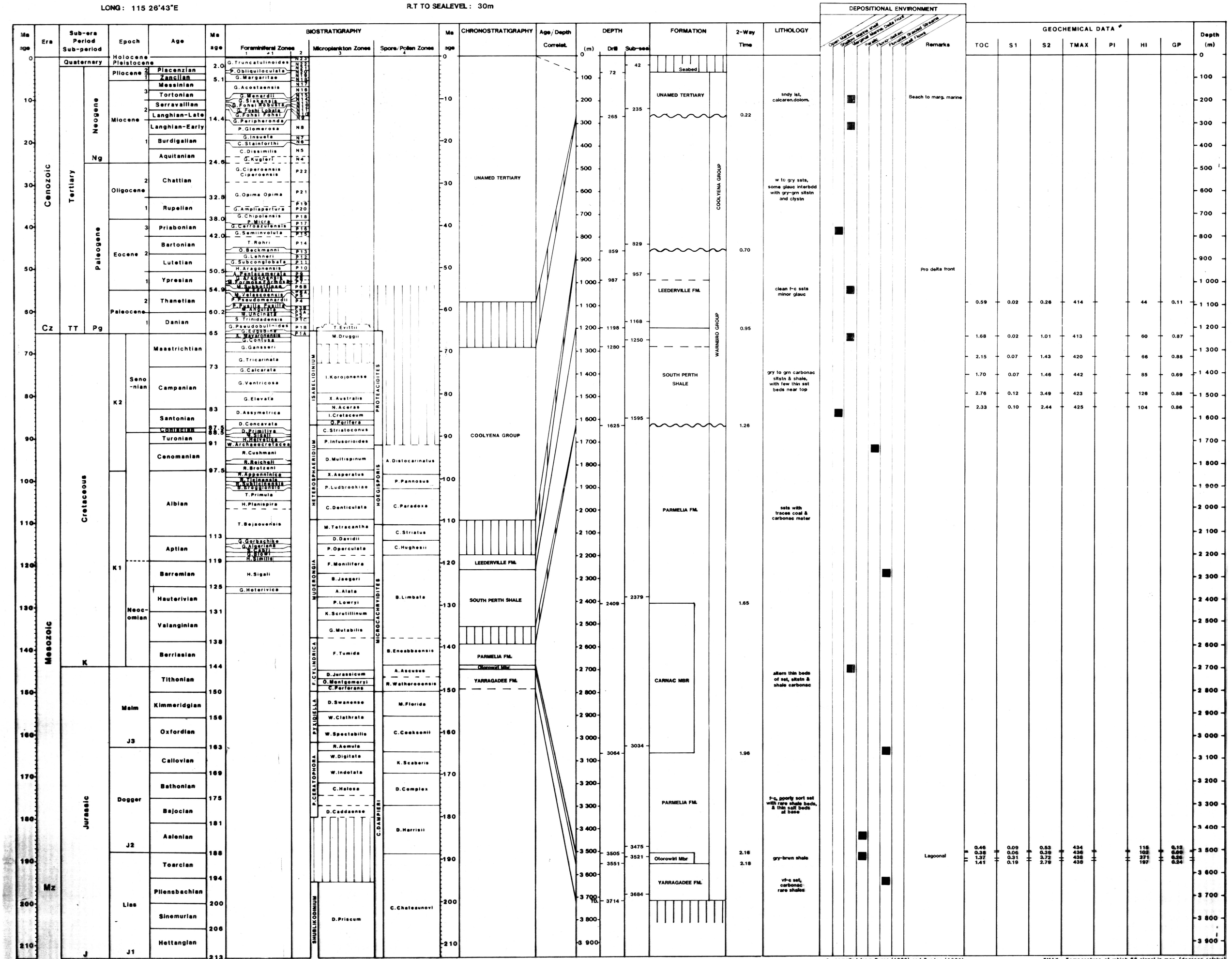
SPUD DATE: 7.10.77

COMPLETION DATE : 10.12.77 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 26'43"E

R.T TO SEALEVEL : 30m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982
A Geologic time scale Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)
1↵ Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977), Romano (1978), Robaszynski et al.(1978,1984), and Caron (1985).
2 After:Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

↵ compiled from Burns (1982) and Surdan (1982)
TOC : Total Organic Carbon (%)
S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons/g rock)
S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons/g rock)
TMAX : Temperature at which S2 signal is max. (degrees celsius)
PI : Production Index S1(S1+S2)
HI : Hydrogen Index (mg hydrocarbons/g organic carbon)
GP : Genetic Potential (Kg hydrocarbons/ton rock) (S1+S2)

Well analysis diagram — Peel 1.

DMR Record 89/23 Plate No.13

WELL NAME : PARMELIA 1

BUREAU OF MINERAL RESOURCES Plate 13.

Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR :

TOTAL DEPTH : 1770m

LOCATION LAT : 32 17'57"S

ELEVATIONS WATER DEPTH : 242m

SPUD DATE: 29.4.81

COMPLETION DATE : 10.6.81 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 04'32"E

R.T TO SEALEVEL : 21m

Ma age | Era | Sub-era Period Sub-period | Epoch | Age | Ma age | BIOSTRATIGRAPHY: Foraminiferal Zones 1 / 1* / 2 | Microplankton Zones 3 | Spore/Pollen Zones 4 | Ma age | CHRONOSTRATIGRAPHY | Age/Depth Correlat. | DEPTH (m) | Drill | Sub-sea | FORMATION | 2-Way Time | LITHOLOGY | DEPOSITIONAL ENVIRONMENT: Open Marine | Shallow Marine shelf | Marginal Marine Delta Front | Paralic | Fluvio-deltaic | Fluvatile Braided Streams | Basal Fluvs | Remarks | GEOCHEMICAL DATA *: TOC | S1 | S2 | TMAX | PI | HI | GP | Depth (m)

Cenozoic / Tertiary / Neogene / Ng

Quaternary

Pleistocene

Pliocene: Piacenzian; Zanclian

Miocene: Messinian; Tortonian; Serravallian; Langhian-Late; Langhian-Early; Burdigalian; Aquitanian

Paleogene / Pg

Oligocene: Chattian; Rupelian

Eocene: Priabonian; Bartonian; Lutetian; Ypresian

Paleocene: Thanetian; Danian

Cz / TT

Mesozoic / Cretaceous / K

Upper Cretaceous: Maastrichtian; Campanian; Santonian; Coniacian; Turonian; Cenomanian

Lower Cretaceous: Albian; Aptian; Barremian; Hauterivian; Valanginian; Berriasian

Mz

Jurassic / J

Malm: Tithonian; Kimmeridgian; Oxfordian

Dogger: Callovian; Bathonian; Bajocian; Aalenian

Lias: Toarcian; Pliensbachian; Sinemurian; Hettangian

Foraminiferal Zones: G.Truncatulinoides; P.Obliquiloculata; G.Margaritae; G.Acostaensis; G.Menardii; G.Siakensis; G.Fohsi Robusta; G.Fohsi Lobata; G.Fohsi Fohsi; G.Peripheronda; P.Glomerosa; G.Insueta; C.Stainforthi; C.Dissimilis; G.Kugleri; G.Ciperoensis Ciperoensis; G.Opima Opima; G.Ampliapertura; G.Chipolensis; P.Micra; G.Cerroazulensis; G.Semiinvoluta; T.Rohri; O.Beckmanni; G.Lehneri; G.Subconglobata; H.Aragonensis; A.Pentacamerata; M.Subbotinae; M.Velascoensis; P.Pseudomenardii; P.Pusilla Pusilla; P.Eugubina; S.Trinidadensis; G.Pseudobulloides; G.Conusa; G.Gansseri; G.Tricarinata; G.Calcarata; G.Ventricosa; G.Elevata; D.Assymetrica; D.Concavata; D.Primitiva; W.Archaeocretacea; R.Cushmani; R.Reicheli; R.Brotzoni; W.Apenninica; W.Archaeocretacea; W.Archaeocretacea; W.Archaeocretacea; R.Cushmani; R.Reicheli; R.Brotzoni; W.Apenninica; T.Primula; H.Planispira; T.Bejaouensis; G.Gorbachike; G.Algeriana; G.Cabri; G.Blow; H.Similis; H.Sigali; G.Hoterivica

Microplankton Zones: T.Evittii; M.Druggii; I.Korojonense; X.Australis; N.Acores; I.Cretaceum; O.Perifera; C.Striatoconus; P.Infusorioides; D.Multispinum; X.Asperatus; P.Ludbrookiae; C.Denticulata; M.Tetracantha; D.Davidii; P.Operculata; F.Monilifera; B.Jaegeri; A.Alata; P.Lowryi; K.Scrutillinum; G.Mutabilis; F.Tumida; D.Jurassicum; O.Montgomeryi; C.Perforans; D.Swanense; W.Clathrata; W.Spectabilis; R.Aemula; W.Digitata; W.Indotata; C.Helosa; D.Caddaense; D.Priscum

ISABELIDINIUM; HETEROSPHAERIDIUM; NUDEORNGIA; F.CYLINDRICA; PYXIDIELLA; P.CERATOPHORA; SHUBLIKODINIUM

Spore/Pollen Zones: PROTEACIDITES; HOEGISPORIS; MICROCACHRYIDITES; C.DAMPIERI

A.Distocarinatus; P.Pannosus; C.Paradoxa; C.Striatus; C.Hughesii; B.Limbata; B.Eneabbaensis; A.Ascusus; R.Watherooensis; M.Florida; C.Cooksonii; K.Scaberis; D.Complex; D.Harrisii; C.Chateaunovi

CHRONOSTRATIGRAPHY: UNDIFFERENT'D TERTIARY; UNDIFFERENT'D UNITS; OSBORNE FM; LEEDERVILLE FM; SOUTH PERTH SHALE; GAGE SST MBR; PARMELIA FM

DEPTH: TD. 1770

FORMATION: Seabed; UNDIFFERENT'D TERTIARY; UNDIFFERENT'D UNITS; OSBORNE FM; LEEDERVILLE FM; SOUTH PERTH SHALE; GAGE SST MBR; PARMELIA FM.; WARNBRO GROUP

2-Way Time: 0.324; 0.860; 0.960; 1.060; 1.120; 1.370; 1.420

LITHOLOGY: calcar'te, calcilut & chert; chalk with glauc'tc calcareous clystnes; interbdd sst, siltstne and clystne glauc, slightly calcareous & micac.; i gry sst & siltstne with interbdd shales glauc, micac. with thin beds f'stne; siltstnes, & shale with minor salts trace dolomite, coal, pyrite; vf-c sst with minor silty & shaley beds trace coal, pyrite & dolomite

DEPOSITIONAL ENVIRONMENT: Lagoonal; Lagoonal; Lagoonal-delta front

GEOCHEMICAL DATA *

TOC | S1 | S2 | TMAX | PI | HI | GP

After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982

A Geologic time scale Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)

1* Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977), Romans (1978), Robaszynski et al.(1979,1984), and Caron (1985).

2 After:Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)

TOC : Total Organic Carbon (%)

S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons g rock)

S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons g rock)

TMAX : Temperature at which S2 signal is max. (degrees celsius)

PI : Production Index S1(S1+S2)

HI : Hydrogen Index (mg hydrocarbons g organic carbon)

GP : Genetic Potential (Kg hydrocarbons ton rock) (S1+S2)

Well analysis diagram — Parmelia 1.

BMR Record 89/23 Plate No.14

WELL NAME : MULLALOO 1

BUREAU OF MINERAL RESOURCES Plate 14.
Compiled : T.Graham, B.West, L.Lavering 7/89

DISTRICT : Sth.Perth Basin

OPERATOR : ESSO

TOTAL DEPTH : 2030m

LOCATION LAT : 31 52'03"S

ELEVATIONS WATER DEPTH : 43.5m

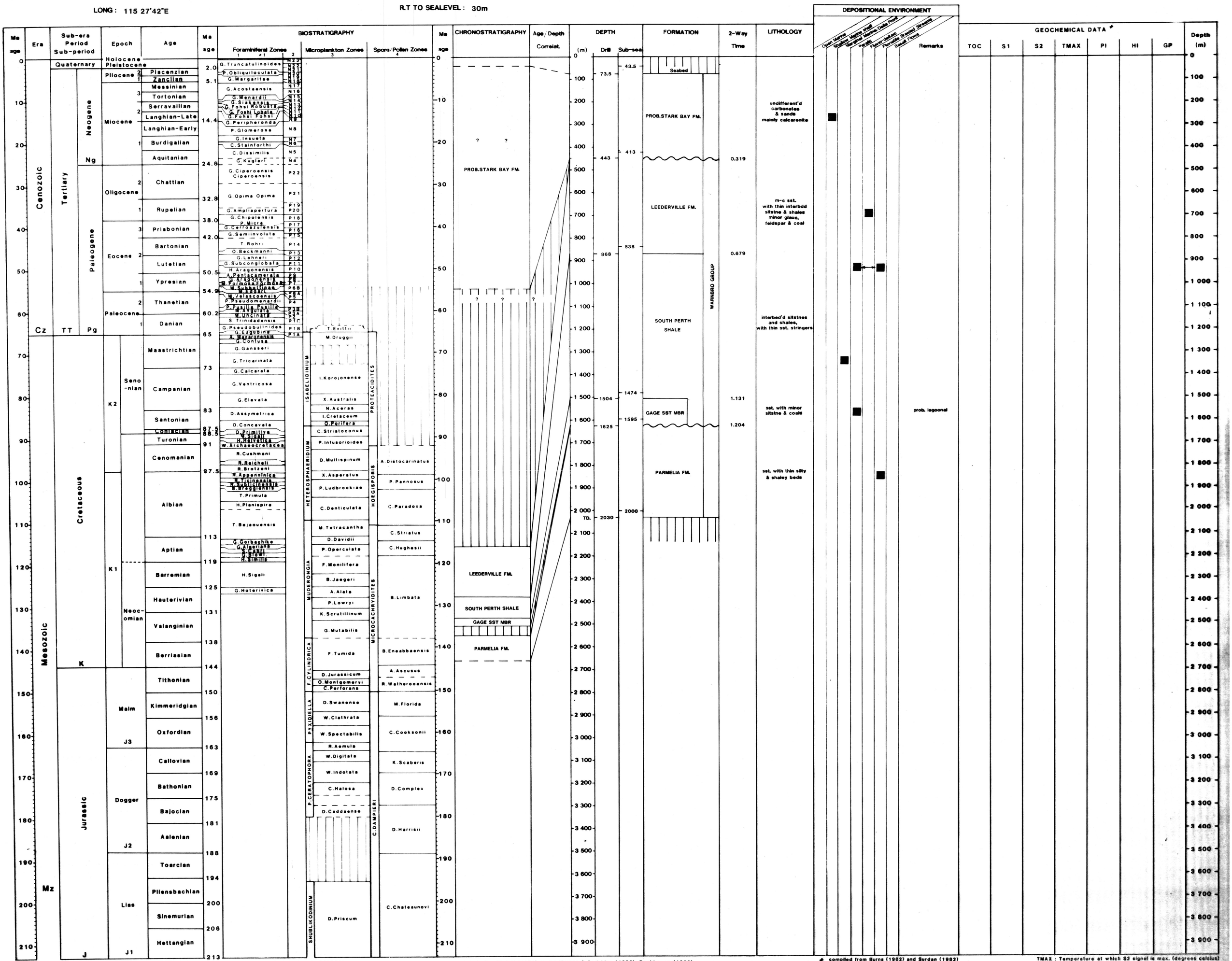
SPUD DATE: 15.4.84

COMPLETION DATE : 20.5.84 (rig release)

STATUS : Plugged & Abandoned

LONG : 115 27'42"E

R.T TO SEALEVEL : 30m



After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982
A Geologic time scale Cambridge University Press

1 Tertiary After:Stainforth et al.(1975)
1* Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977). Remane (1978), Robasynski et al.(1979,1984), and Caron (1985).
2 After:Blow (1969) and Berggren (1972)

3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)
TOC : Total Organic Carbon (%)
S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons/g rock)
S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons/g rock)
TMAX : Temperature at which S2 signal is max. (degrees celsius)
PI : Production Index S1(S1+S2)
HI : Hydrogen Index (mg hydrocarbons/g organic carbon)
GP : Genetic Potential (Kg hydrocarbons/ton rock) (S1+S2)

BMR Record 89/23 Plate No.15

WELL NAME : MINDER REEF 1

BUREAU OF MINERAL RESOURCES
Plate 15.
Compiled : T.Graham, B.West, I.Lavering 7/89

DISTRICT : Sth. Perth Basin

OPERATOR : ESSO

TOTAL DEPTH : 1530m

LOCATION LAT : 31 43'21"S

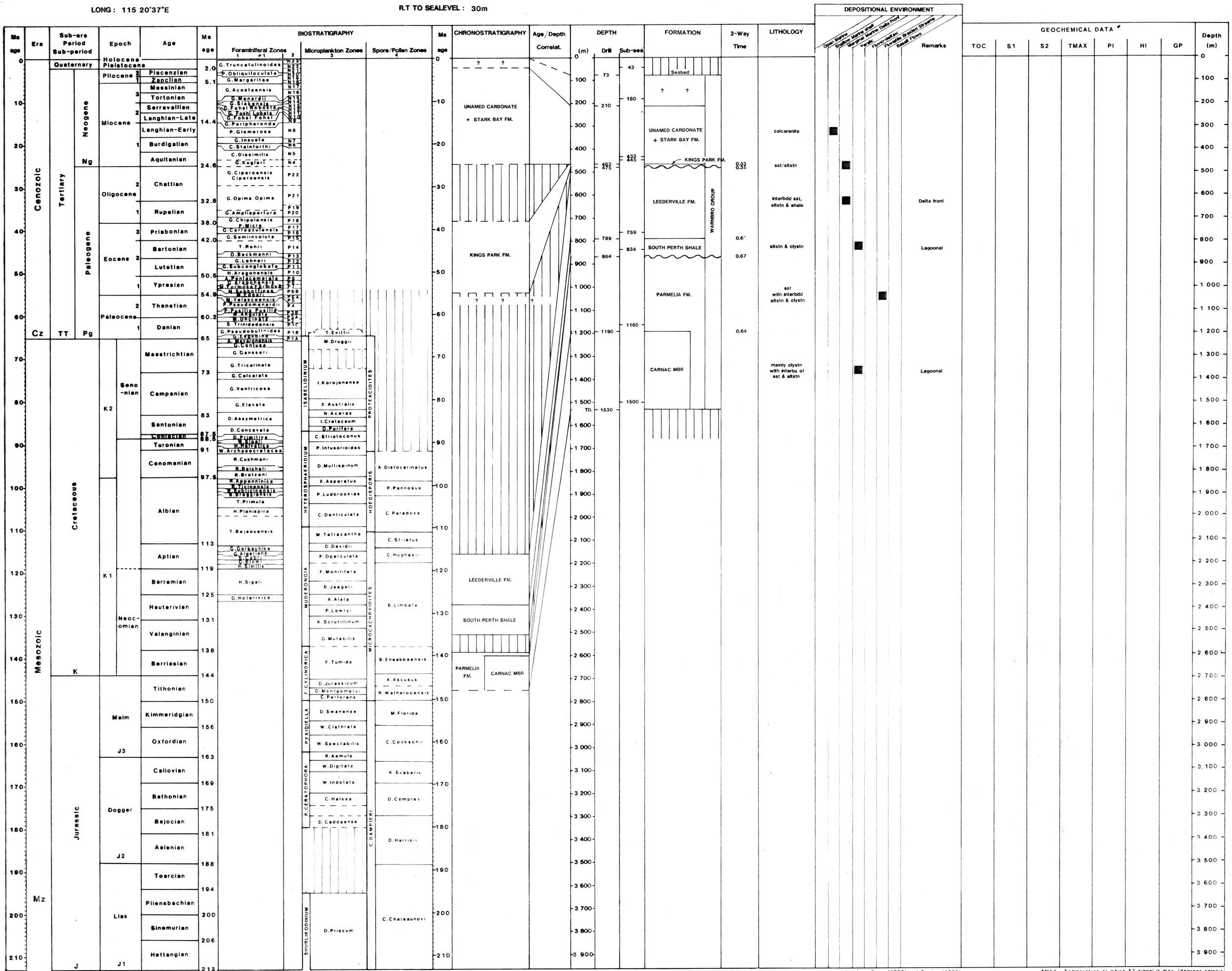
ELEVATIONS WATER DEPTH : 43m

SPUD DATE: 23.9.84 COMPLETION DATE : 4.6.84

STATUS : Plugged & Abandoned

LONG : 115 20'37"E

R.T TO SEALEVEL : 30m



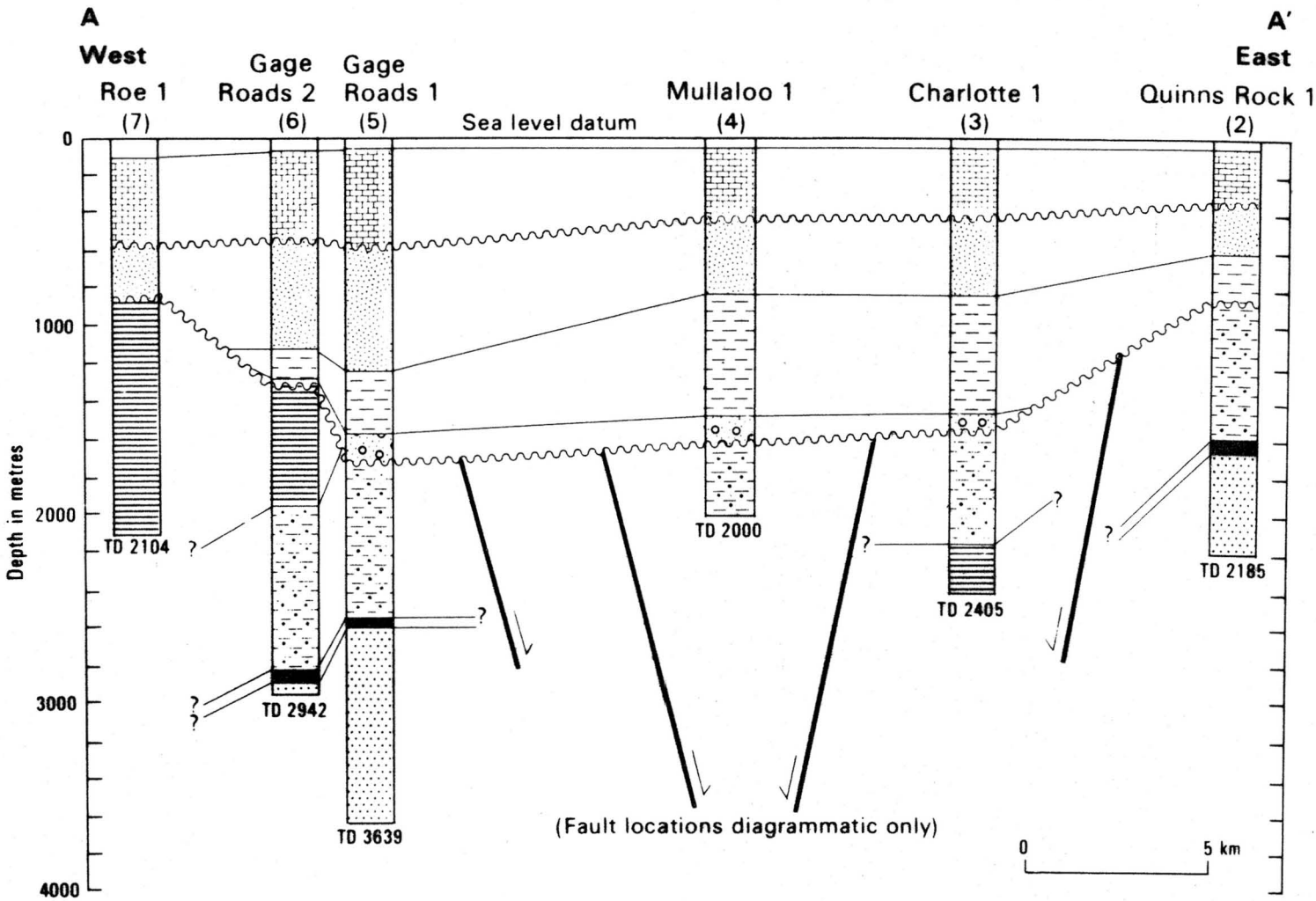
After Harland,Cox,Llewellyn,Pickton,Smith,Waters 1982 **A Geologic time scale** Cambridge University Press

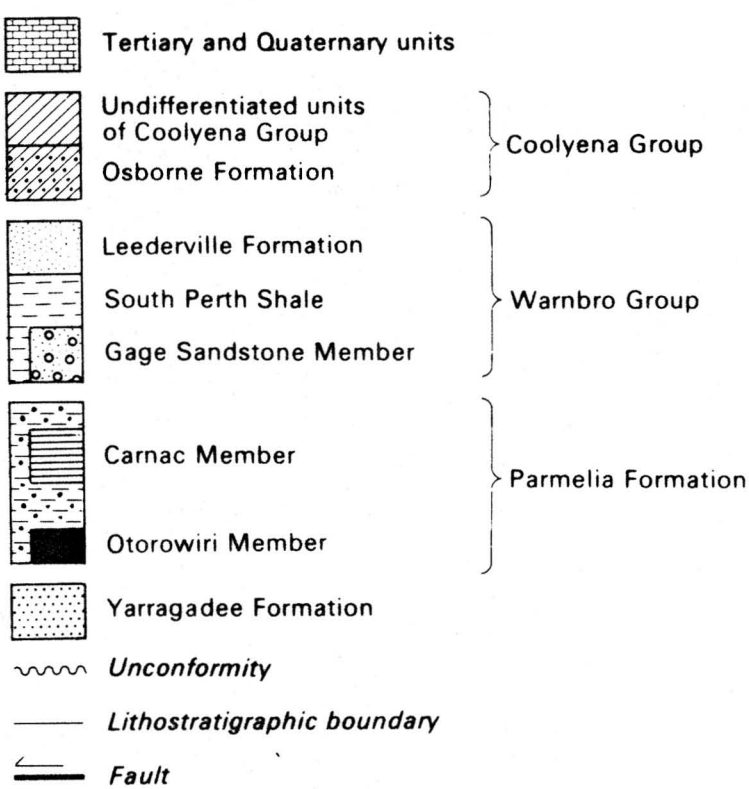
1 Tertiary After:Stainforth et al.(1975)
1≠ Cretaceous After: Alleman et al.(1971),Premoli-Silva and Bolli (1973), Van Hinte (1976),Premoli-Silva and Boersma (1977) Remane (1978), Robaszynski et al.(1979,1984), and Caron (1985).
2 After:Blow (1969) and Berggren (1972)

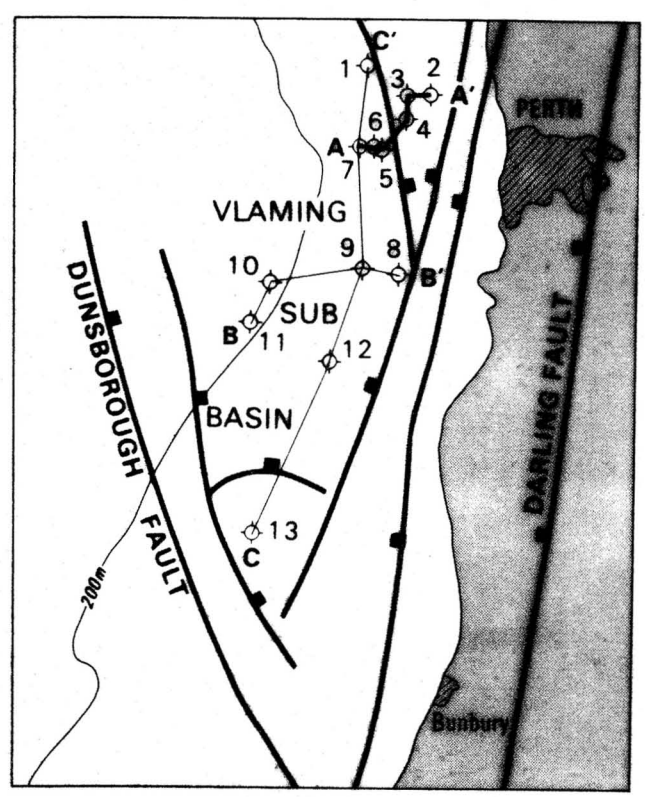
3 & 4 after Filatoff (1975), Helby Morgan & Partridge (1985), Backhouse (1988)

* compiled from Burns (1982) and Surdan (1982)
TOC : Total Organic Carbon (%)
S1 : Pyrolysis free - hydrocarbon signal (mg S2 hydrocarbons g rock)
S2 : Pyrolysis kerogen signal (mg S2 hydrocarbons g rock)
TMAX : Temperature at which S2 signal is max. (degrees celsius)
PI : Production Index S1(S1+S2)
HI : Hydrogen Index (mg hydrocarbons g organic carbon)
GP : Genetic Potential (Kg hydrocarbons ton rock) (S1+S2)

Well analysis diagram — Minder Reef 1.



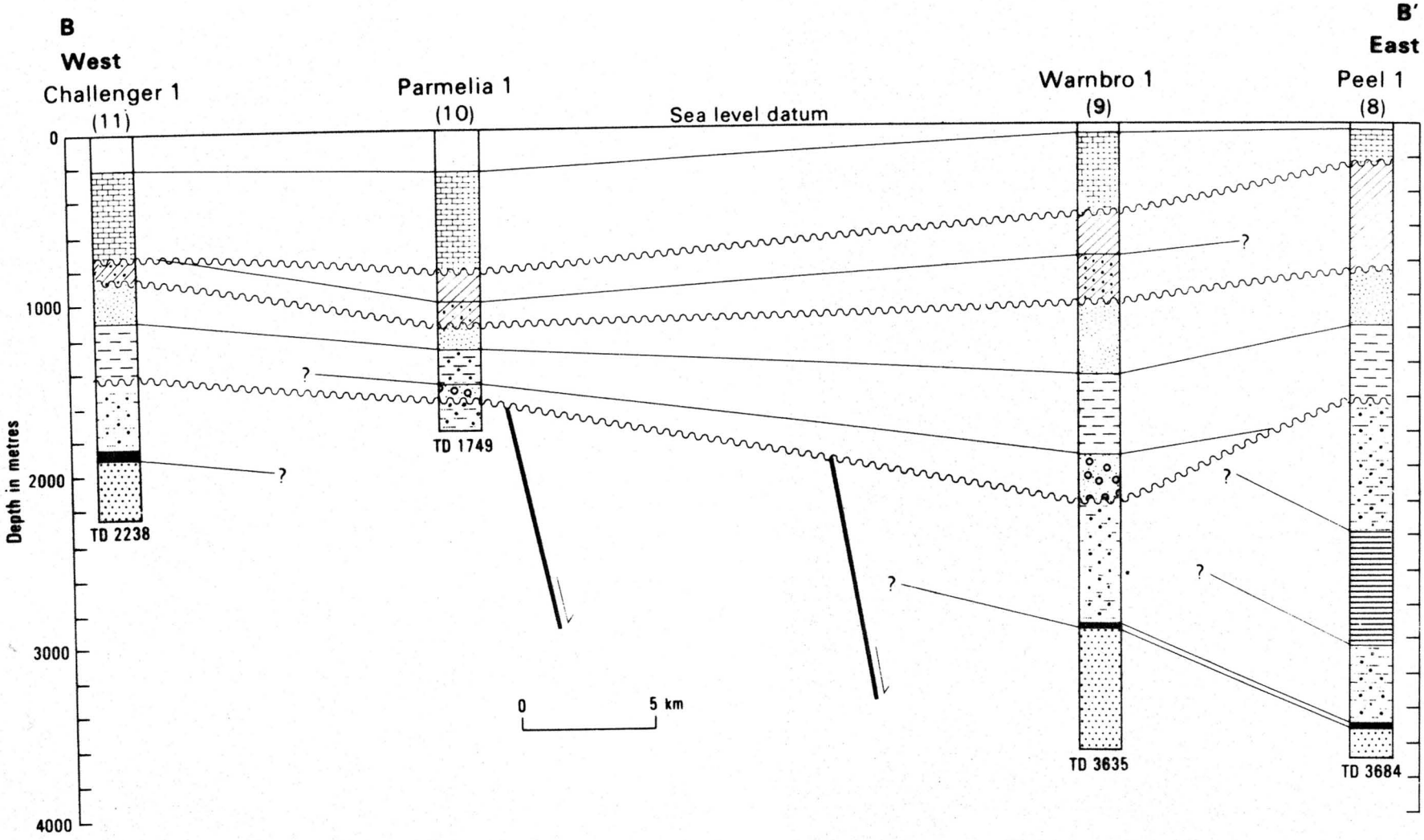


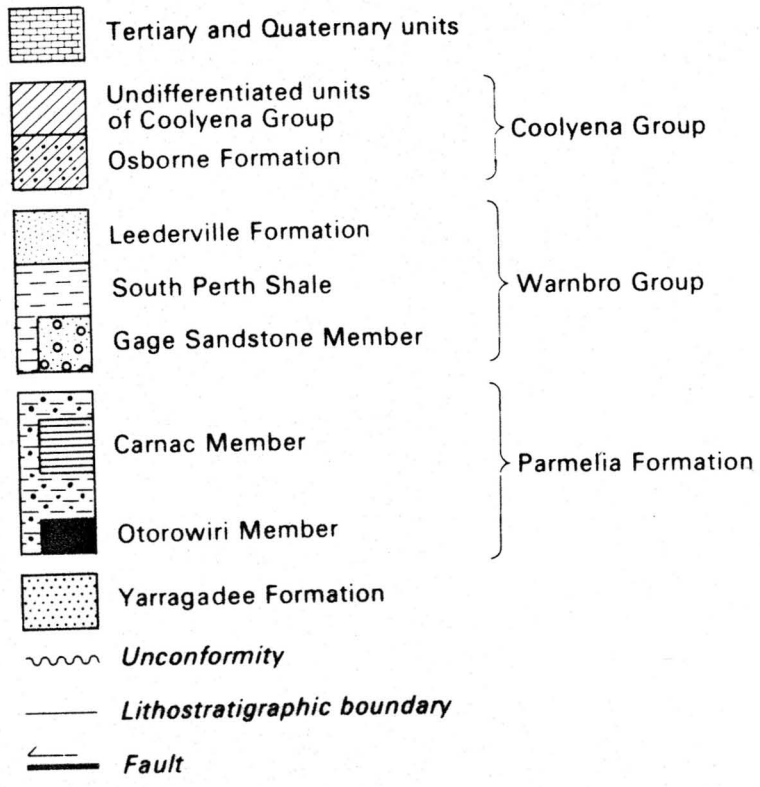


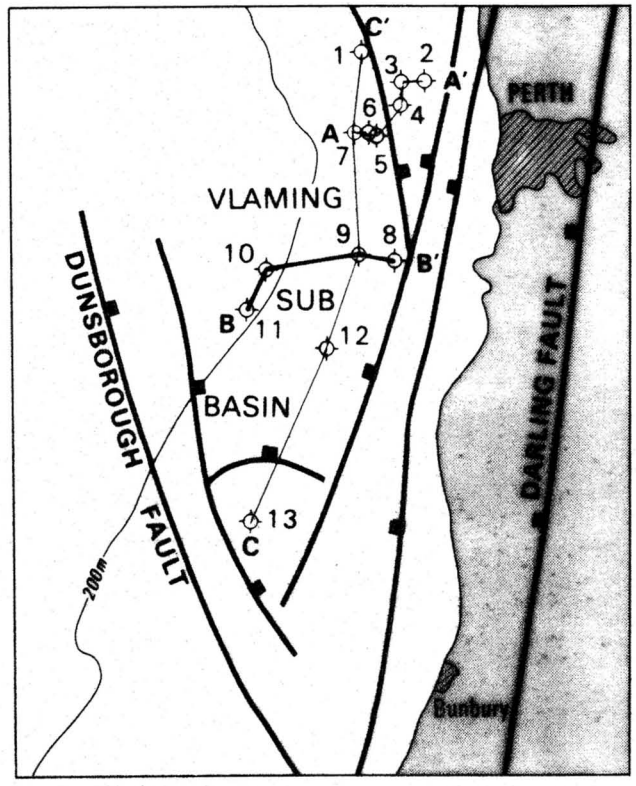
Record 1989/23

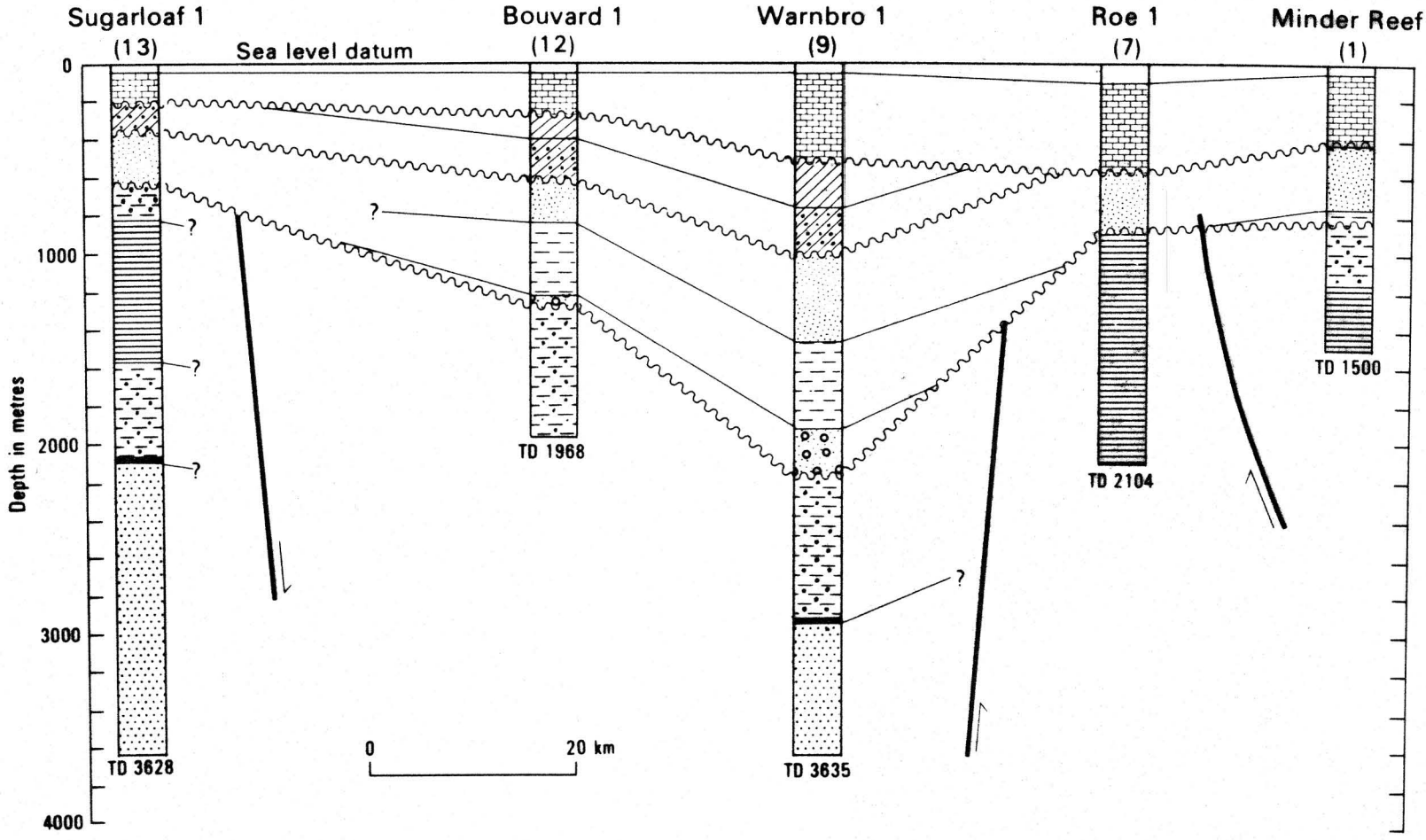
23/OWA/217

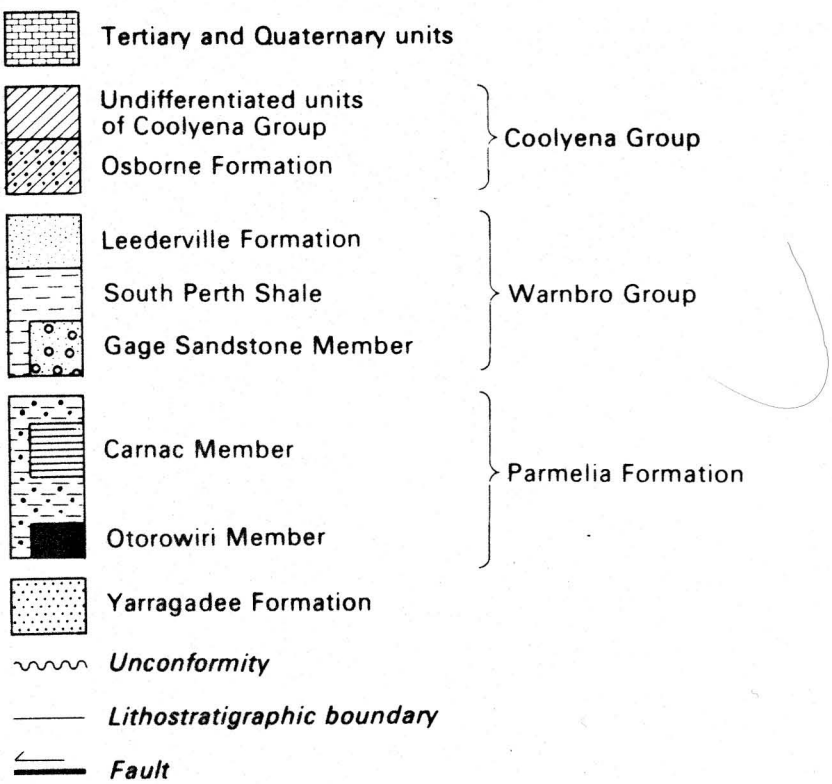
Well correlations in the northern part of the Vlaming Sub-basin.

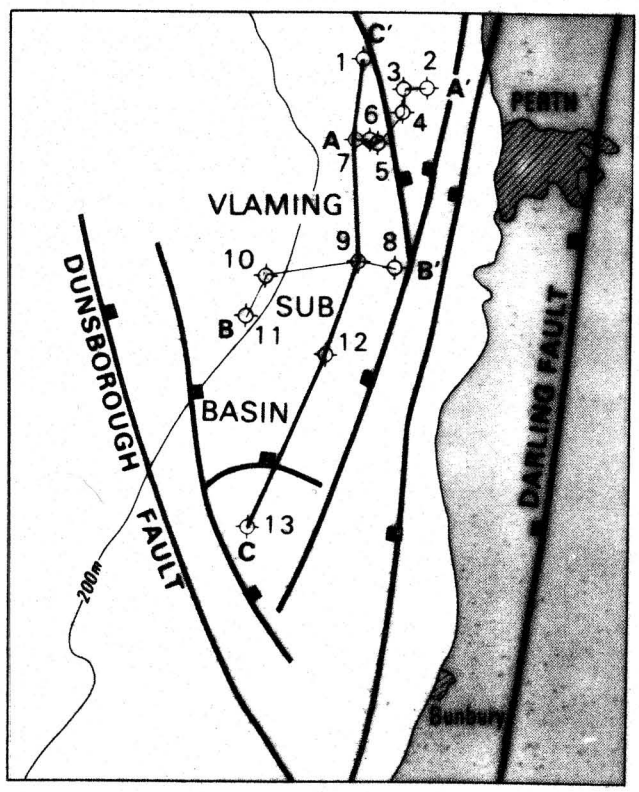

B
West
B'
East
Challenger 1
(11)
Parmelia 1
(10)
Sea level datum
Warnbro 1
(9)
Peel 1
(8)
Depth in metres
0
1000
2000
3000
4000
TD 2238
TD 1749
TD 3635
TD 3684
0
5 km


Tertiary and Quaternary units
Undifferentiated units of Coolyena Group
Osborne Formation
Coolyena Group
Leederville Formation
South Perth Shale
Gage Sandstone Member
Warnbro Group
Carnac Member
Otorowiri Member
Parmelia Formation
Yarragadee Formation
Unconformity
Lithostratigraphic boundary
Fault


C'
A'
B'
A
B
C
VLAMING
SUB
BASIN
DUNSBOROUGH FAULT
DARLING FAULT
PERTH
Bunbury
200m







Record 1989/23

23/OWA/219

North-south section showing well correlations in the Vlaming Sub-basin.

114°00′ 114°30′ 115°00′ 115°30′

31°20′

31°30′

4500 4000 3500 3000 2500 2000 1500 1000 500

Rottnest Island

32°00′

0 20 km
0 10 nM

32°30′

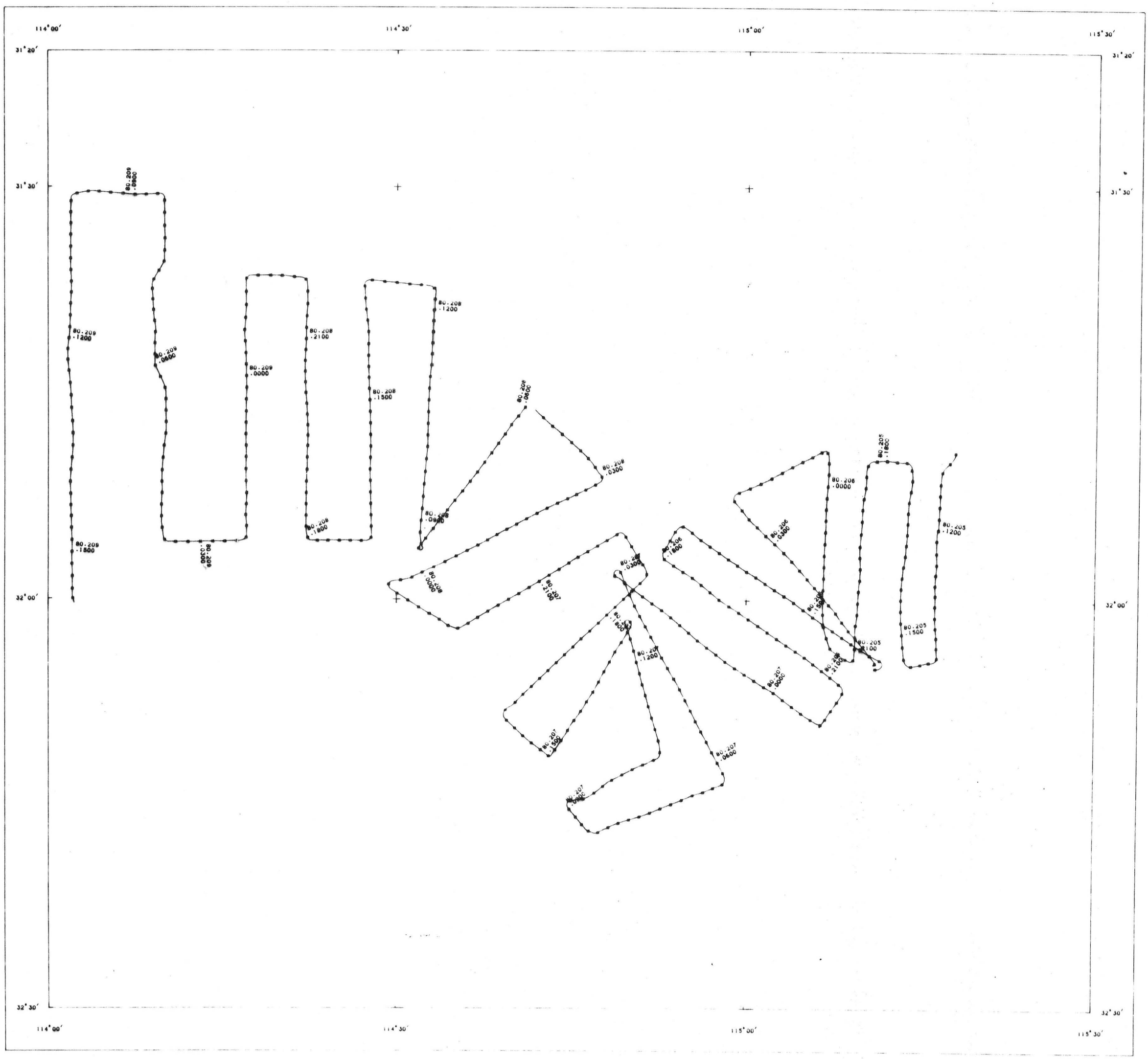
Record 1989/23

Bathymetry of the Fremantle Canyon.

23/OWA/220

SOUTH PERTH BASIN 1

EDITION OF 1989/07/28



AUSTRALIAN NATIONAL SPHEROID
TRANSVERSE MERCATOR PROJECTION
ZONE 50 - WIDTH OF 6° AND
CENTRAL MERIDIAN 117°00′ EAST

COMPUTER DRAWN AT THE DIVISION OF
MARINE GEOSCIENCES & PETROLEUM GEOLOGY

□ 80.210 .0004 adjusted position of the ship on Survey 80 Day 210 at 0400h GMT

B.M.R. MARINE SURVEY 80 - 1988
TRACK MAP (PRELIMINARY)

KILOMETRES
10 0 10 20 30 40
5 0 5 10 15 20
NAUTICAL MILES

The information contained in this map has been compiled by the Department of Primary Industries and Energy as part of the policy of the Australian Government to assist in the exploration for 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, Bureau of Mineral Resources, Geology and Geophysics, G.P.O. Box 378, CANBERRA, A.C.T. 2601.

The data used in this compilation was collected by the Division of Marine Geosciences and Petroleum Geology on the M.V.Rig Seismic during July - August 1988.

Data compiled and processed by M. O'Connor.

Record 1989/23

SOUTH PERTH BASIN 1

TRACK MAP (PRELIMINARY)

23/OWA/221

Location of high-resolution (watergun) seismic reflection profiles across the Fremantle Canyon.

114°00′ 114°30′ 115°00′ 115°30′

31°20′

31°30′

Rottnest Island

32°00′

32°30′

4500 4000 3500 3000 2500 2000 1500 1000 500

22 23 17 19 18 13 14 15 16 4 8 6

0 20 km
0 10 nM

Record 1989/23

23/OWA/222

PLATE 22

SHEET 1 OF 1 SHEETS M-80S0005F

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

PERTH BASIN SURVEY 1988

STACK SECTION

SURVEY 80

LINE 80/05

PANEL 1 OF 1 PANELS

START OF LINE : 80.205.1010
END OF LINE : 80.205.1431

NORTH

RECORDING PARAMETERS

VESSEL	: RIG SEISMIC	DATE RECORDED	: 23 JUL 1988
SHIP SPEED	: 5 KNOTS	SHOT INTERVAL	: 4.9 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	: 180 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	: 0.05
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

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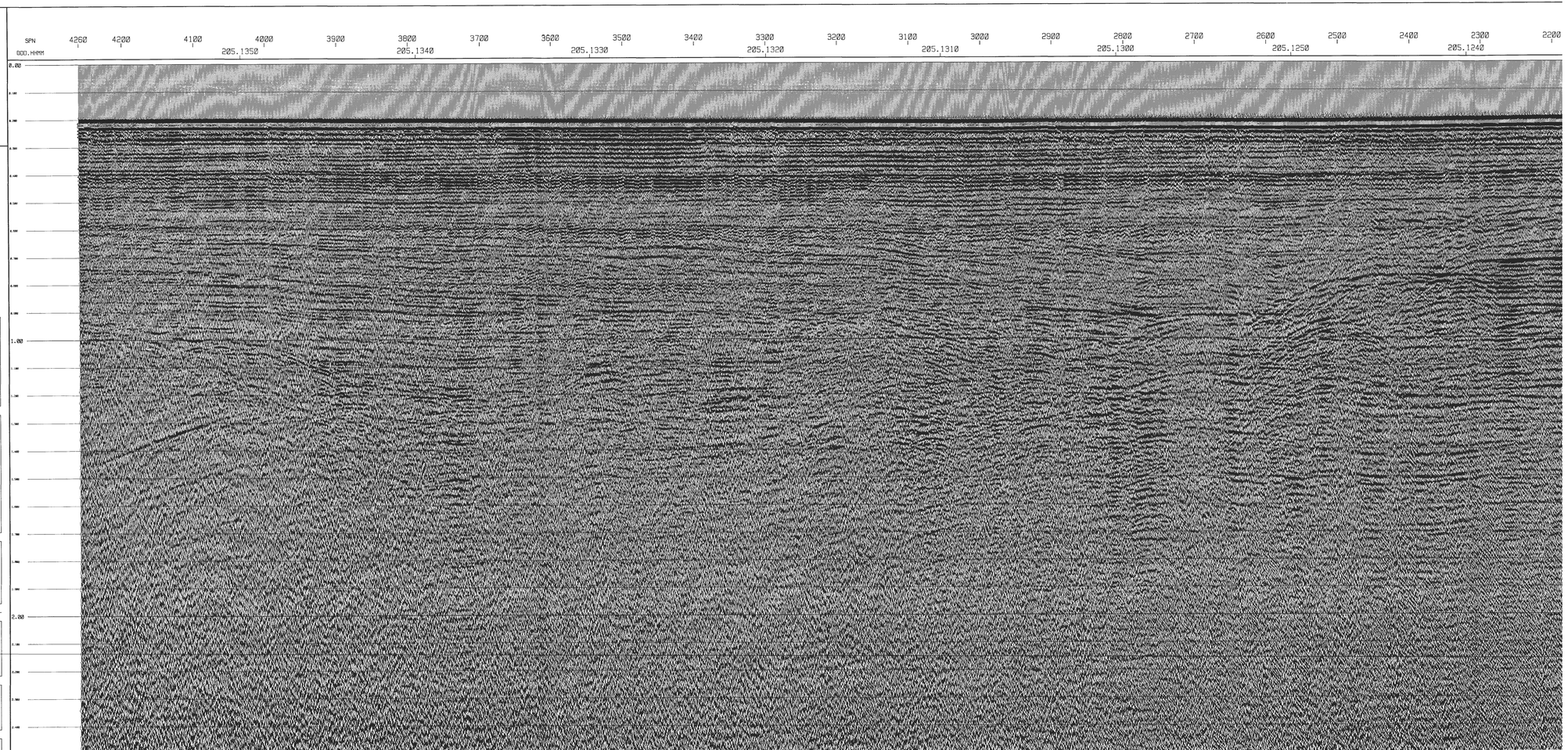

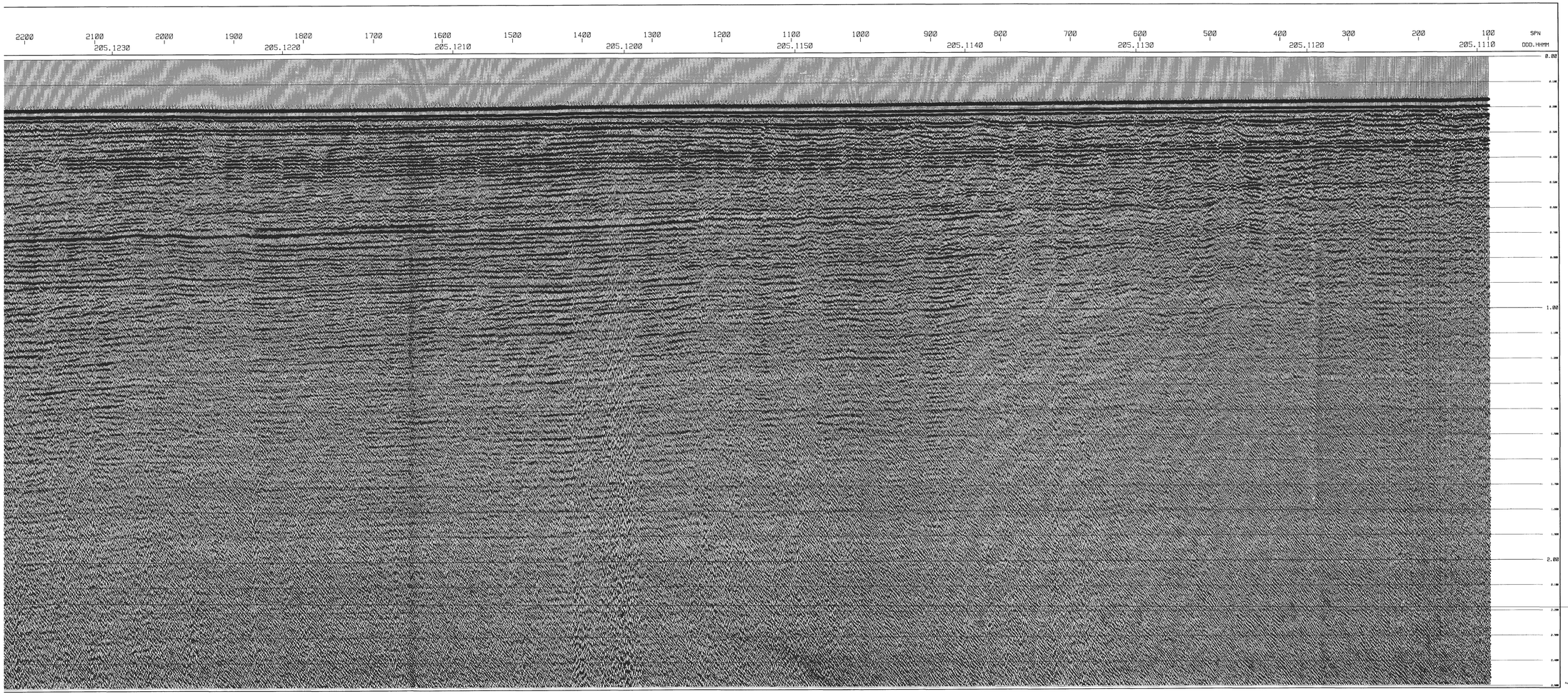

Record 1989/23

Stacked watergun profile — line 80/05.

PLATE 22

SHEET 1 OF 1 SHEETS M-80S0005F

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

PERTH BASIN SURVEY 1988

STACK SECTION

SURVEY 80

LINE 80/05

PANEL 1 OF 1 PANELS

START OF LINE : 80.205.1010
END OF LINE : 80.205.1431

NORTH

RECORDING PARAMETERS

VESSEL	: RIG SEISMIC	DATE RECORDED	: 23 JUL 1988
SHIP SPEED	: 5 KNOTS	SHOT INTERVAL	: 4.9 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	: 180 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	: 0.05
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

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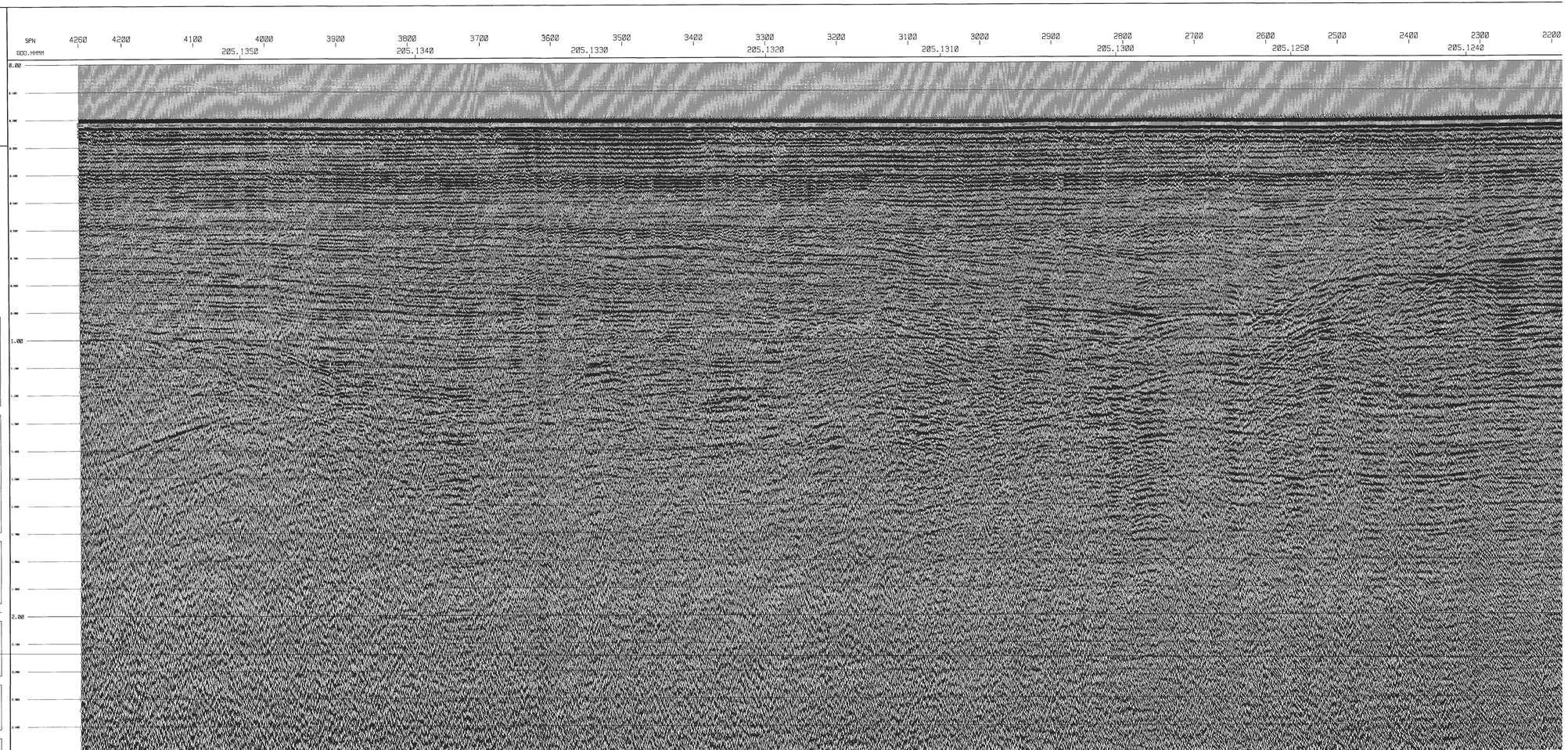

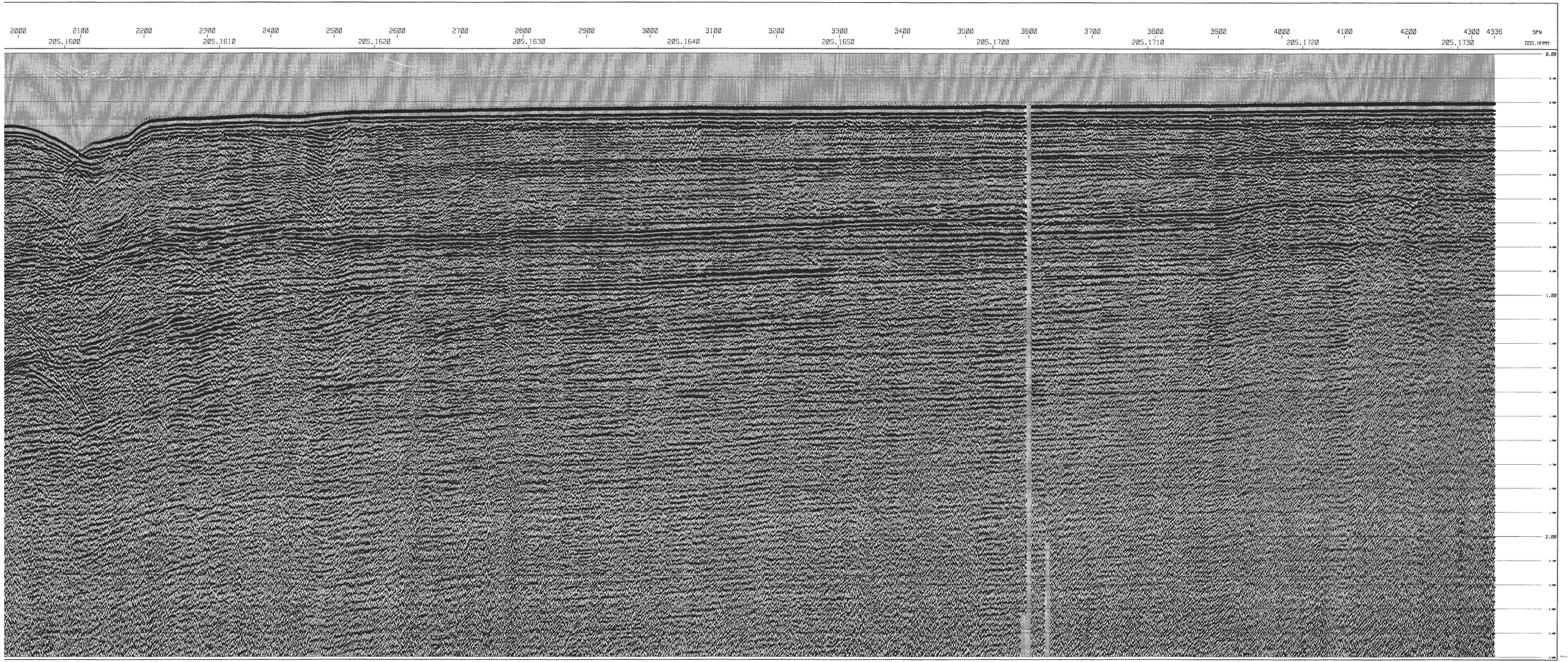

Stacked watergun profile — line 80/06.

SHEET 1 OF 1 SHEETS M-80S0008F

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

PERTH BASIN SURVEY 1988

STACK SECTION

SURVEY 80

LINE 80/08

PANEL 1 OF 1 PANELS

START OF LINE : 80.005-2000
END OF LINE : 80.080-0000

NORTH

RECORDING PARAMETERS

VESSEL	: RIG SEISMIC	DATE RECORDED	: 24 JUL 1988
SHIP SPEED	: 5 KNOTS	SHOT INTERVAL	: 6.0 SEC
SOURCE	: 80 C.I. WATER GUN	SOURCE DEPTH	: 3 M
GROUP LENGTH	: 25-5 M	NOMINAL CABLE DEPTH	: 7 M
NO. OF TRACES	: 24	RECEIVER SPACE	: 25 M
TAU SPACING	: 0.25 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	: 360 DEG

PROCESSING SEQUENCE

1. GEOMETRY DEFINITION
2. REFORMAT TO DISCO INTERNAL FORMAT
3. RESAMPLE TO 2 MILLISECONDS
4. GAIN CORRECTION
5. CDP SORT & 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	: 39.7 TRACES/CM	TIME SCALE	: 20 CM/SEC
POLARITY	: NORMAL	DISPLAY GAIN	: 0.75
HORIZONTAL SCALE	: 1:12083	VERTICAL EXAGGERATION	: 3.3:1
DISPLAY DATE	: JULY 1989		

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SOUTH PERTH BASIN SURVEY 1988
PROJECT LEADERS: JOHN MARSHALL AND DOUG MURRAY

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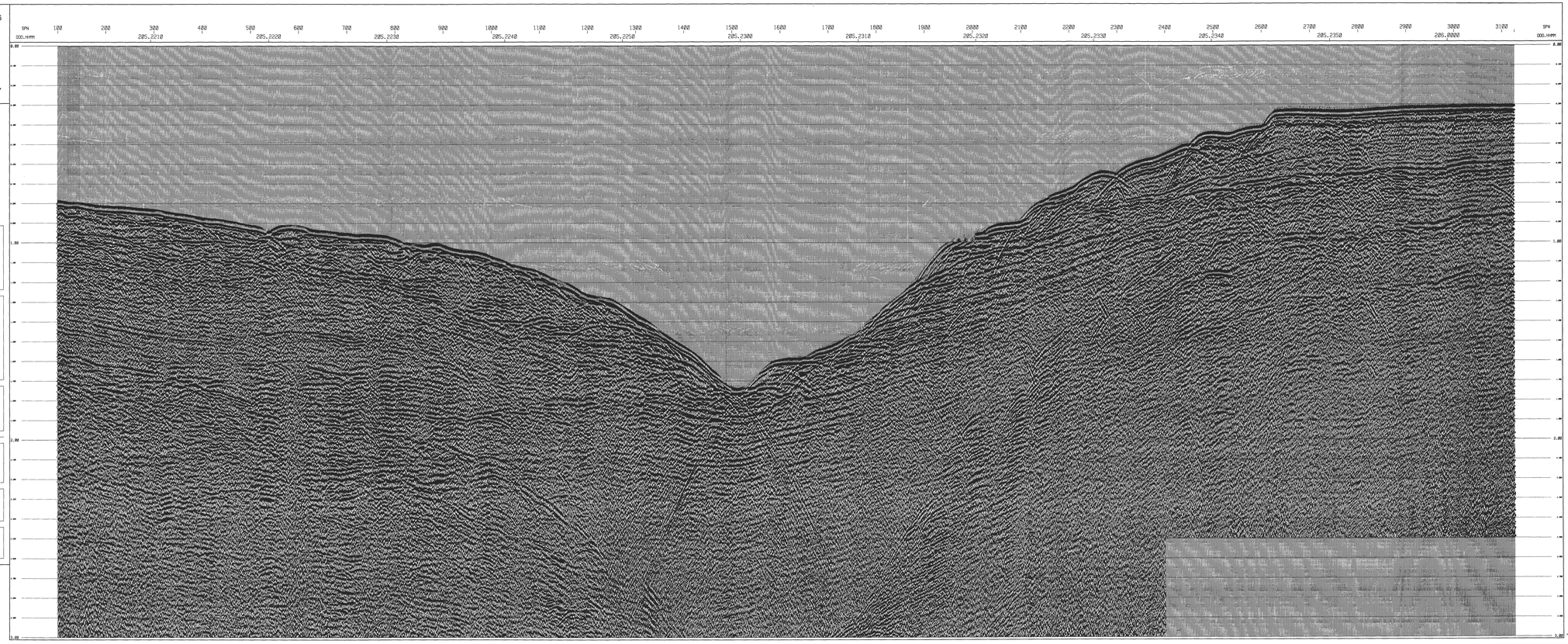

Stacked watergun profile — line 80/08.

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIVISION OF MARINE GEOSCIENCE AND PETROLEUM GEOLOGY

SHEET 1 OF 1 SHEETS M-80520810F

PERTH BASIN SURVEY 1988

STACK SECTION

SURVEY 88

LINE 88/10

PANEL 1 OF 1 PANELS

SOUTHEAST

RECORDING PARAMETERS

VESSEL	: R/V GEOPHYSIC	DATE RECORDED	: 24 JUL 1988
SHOOT SPEED	: 4.5kts	SHOOT INTERVAL	: 25 SEC
SOURCE	: 1400 cu.in. WATER GUN	SOURCE DEPTH	: 2 M
No. CHANNELS	: 24	RECEIVER DEPTH	: 2 M
CHANNEL SPACING	: 6.25 M	NOMINAL FOLD	: 6
NEAR OFFSET	: 150 M	RECORDING FORMAT	: 24 BIT
FAR OFFSET	: 300 M	SAMPLE INTERVAL	: 2 MS
DATA RECORDING FORMAT	: SMK SEGY	SPREAD GEOMETRY	: 150 M

PROCESSING SEQUENCE

1. GEOMETRY DEFINITION
2. DEMULTIPLEX TO SEISMIC INTERNAL FORMAT
3. RECHANNELISE TO FULL FOLD(24)
4. GAIN CORRECTION
5. TRACE EDITING
6. STATIC CORRECTION FOR START OF DATA
7. DECONVOLUTION: 120 MS OPER, 7 ITERN 208 MS GAP
8. DECONVOLUTION: 120 MS OPER, 11 ITERN 208 MS GAP
9. TIME VARIANT FILTER(5-7HZ) 0 MS - 1500 MS
10. TRACE BALANCE
11. CONSTANT VELOCITY STACK (1500M/S STACKING VELOCITY)
12. AMPLITUDE PLOTS

DISPLAY PARAMETERS

TRACE DENSITY	: 59.7 TRACES/CM	TIME SCALE	: 2M CM/SEC
POLARITY	: NORMAL	DISPLAY GAIN	: 8.00
HORIZONTAL SCALE	: 1:12500	VERTICAL EXAGGERATION (+ 3.1)	: 1
DISPLAY DATE	: JULY 1988		

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SP/N 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4735 SP/N

200.0000 200.0048 200.0096 200.0144 200.0192 200.0240 200.0288 200.0336 200.0384 200.0432 200.0480 200.0528 200.0576 200.0624 200.0672 200.0720 200.0768 200.0816 200.0864 200.0912 200.0960 200.1008 200.1056 200.1104 200.1152 200.1200 200.1248 200.1296 200.1344 200.1392 200.1440 200.1488 200.1536 200.1584 200.1632 200.1680 200.1728 200.1776 200.1824 200.1872