LASMO
International Ltd

All. 1

All.to 1 (Sintesi Stratigrafica e Minerarie)

MONTESANTO 1

n° 2768

COMPOSITE LOG

AREA	: SOUTHERN APENNINES
PERMIT	: TORRENTE SANNORO
CONTRACTOR/RIG	: DELTA/NATIONAL 1320
DATE RIG OBTAINED	: 20th MAY 1990
DATE WELL SPUDDED	: 20th MAY 1990
DATE TD REACHED	: 17th AUGUST 1990
DATE RIG RELEASED	: 23rd AUGUST 1990
TOTAL DEPTH	: 3350m

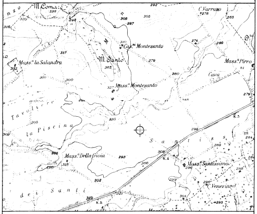
LOCATION (International Ellipsoid) :

GEOGRAPHIC : (Monte Mario Datum 1940)	41° 22' 48.9" N 02° 49' 12.7" E
GAUSS - BOAGA : (Monte Mario Datum 1940)	4,581,088 N 2,542,789 E
GROUND ELEVATION	: 295 m. amsl
KB ELEVATION	: 304 m. amsl

SCALE 1 : 1,000

FINAL STATUS: PLUGGED & ABANDONED

LOCATION MAP



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PARTNERSHIP

LASMO International Ltd 100%

PERSONNEL

WELL SITE GEOLOGISTS:	Carlo CARUGO Riccardo LEONCINI
DRILLING SUPERVISORS:	Giovanni INDRI David NEWBOULD

SERVICE COMPANIES

MUD LOGGING	: GEOSERVICES
WIRELINE LOGGING	: SCHLUMBERGER
SEISMIC OPERATIONS	: SCHLUMBERGER
CEMENTING	: B.J. SERVICES
CASING RUNNING	: WEATHERFORD
MUD ENGINEERING	: BAROID
BIOSTRATIGRAPHY	: Umberto FOLLADOR

DRILLING DATA

HOLE SIZE	INTERVAL(metres)
26"	11-211
17 1/2"	211-1232
12 1/4"	1232-2700
8 1/2"	2700-3350

DRILLING FLUID

INTERVAL (metres)	SYSTEM
11-211	BENTONITE SPUD MUD
211-3350	POLYNOX (LIME/LIGNOSULPHONATE)

CEMENT PLUGS

No.	INTERVAL (metres)
1	2850-3000
2	2530-2680
3	1050-1200
4	surface-150

CASING DATA

SIZE	TYPE	SHOE DEPTH (metres)	CEMENT
30"	1" WALL	22	DRIVEN DURING SITE CONSTRUCTION
20"	K55 BTC 17 JTS-94 LB/FT	211	1440 SX CLASS 'G' NEAT-1,90 SG
13 3/8"	N 80 BTC 98 JTS-68 LB/FT	1229	LEAD: 840 SX CLASS 'G'+ 1% GEL +0.1 % R3 AT 1.60-1.65 SG TAIL : 865 SX CLASS 'G' +0.15% R3 + 0.6% D31 AT 1.90-1.92 SG
9 5/8"	N80 NEW VAM 225 JTS-47 LB/FT	2685	LEAD: 726 SX CLASS 'G'+1% GEL+0.35% R3 AT 1.60 SG TAIL: 509 SX CLASS 'G' +0.55% R12L+0.3% CD 31 AT 1.90 SG

NOTE: 9 5/8" CASING CUT AT 1200 m, 99 JTS RETRIEVED.

LOGGING SUMMARY

DATE	LOG	RUN	INTERVAL (metres)	HOLE SIZE	REMARKS
15.06.90	DLL-SLS-CAL-GR-SP	1	1228-210	17 1/2"	
31.07.90	DIS-SLS-GR-SP	2	2694-1227	12 1/4"	
18.08.90	ISF-SLS-GR-CAL-SP	3	3347-2688	8 1/2"	
18.08.90	WST CHECK SHOT	1	3330-304		

LITHOLOGY

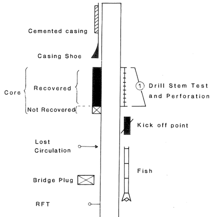
- SHALE
- SILTSTONE
- SAND / SANDSTONE
- CONGLOMERATE
- MARL
- LIMESTONE

- DOLOMITE
- POTASSIUM SALT
- SALT
- ANHYDRITE
- GYPSUM
- CHERT

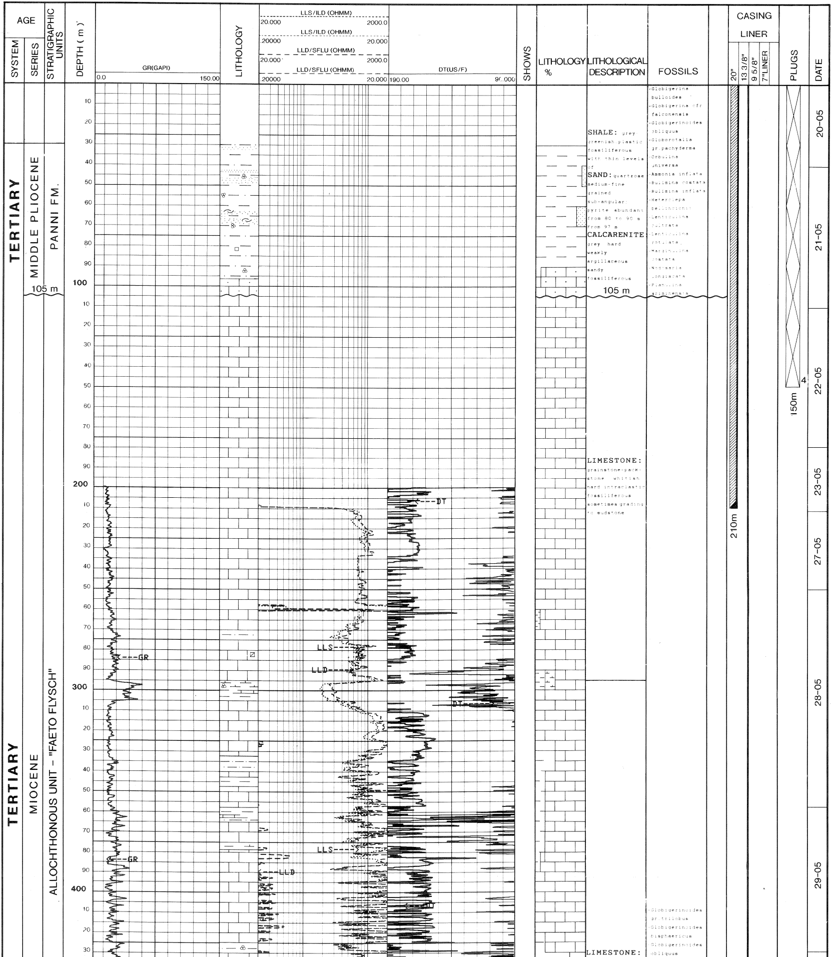
- IGNEOUS
- METAMORPHICS (BASEMENT)
- TUFF
- DIP AND AZIMUTH
- GAS SHOWS
- GAS
- OIL SHOWS

- FOSSILS
- BIVALVES
- GASTROPODS
- FORAMS
- OSTRACODS
- CRINOIDS
- PLANT REMAINS
- RADIOLARIA
- GLAUCONITE
- DOLOMITIC
- CARBONACEOUS
- PYRITE
- OOLITIC

SYMBOLS



CALCARENITE
COAL
● OIL
FAULT
UNCONFORMITY
MIC MICACEOUS
Q QUARTZOSE
Cement Plug



LITHOLOGICAL DESCRIPTION

SHALE: grey-greenish plastic fossiliferous with thin levels of
SAND: quartzose medium-fine grained sub-angular; pyrite abundant from 80 to 90 m
From 97 m
CALCARENITE: grey hard weakly argillaceous sandy fossiliferous

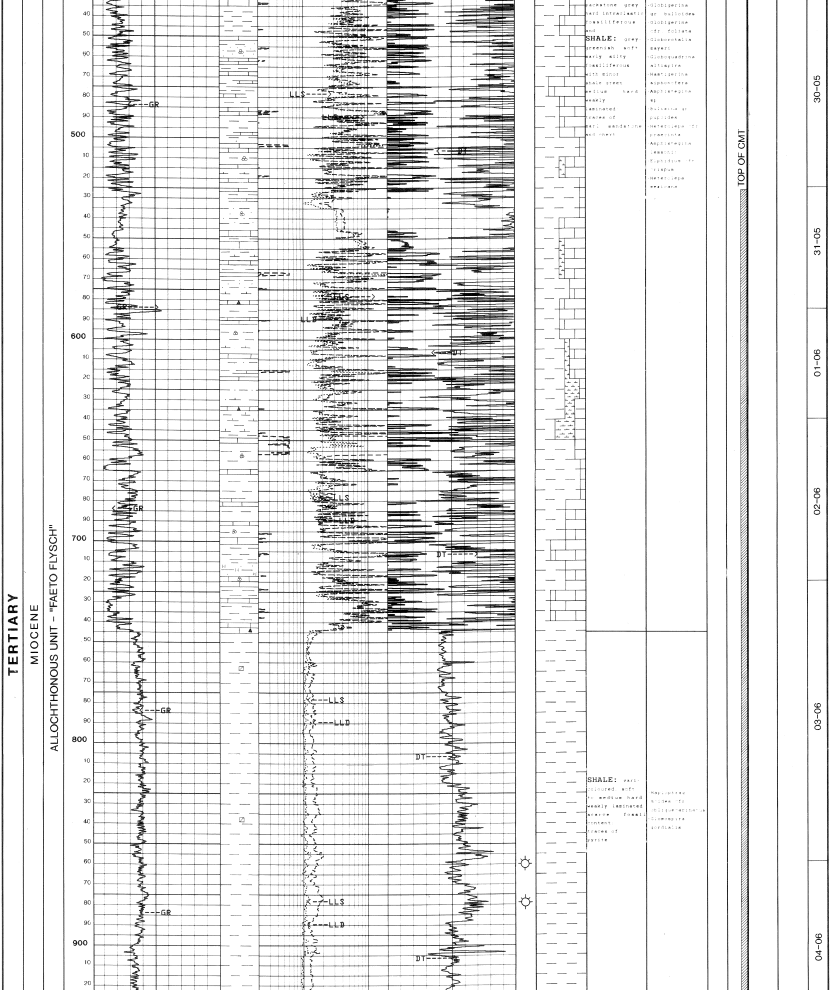
LIMESTONE: grainstone-packstone whitish hard intraclastic fossiliferous sometimes grading to mudstone

LIMESTONE:

FOSSILS

- Globigerina bulloides
- Globigerina cfr falconensis
- Globigerinoides obliquus
- Globorotalia gr. pachyderma
- Orbulina universa
- Ammonia inflata
- Bulimina costata
- Bulimina inflata
- Heterolepa bellincionii
- Lenticulina cultrata
- Lenticulina rotulata
- Marginulina costata
- Nodosaria longiscata
- Planulina ariminensis

- Globigerinoides gr. trilobus
- Globigerinoides bisphaericus
- Globigerinoides obliquus



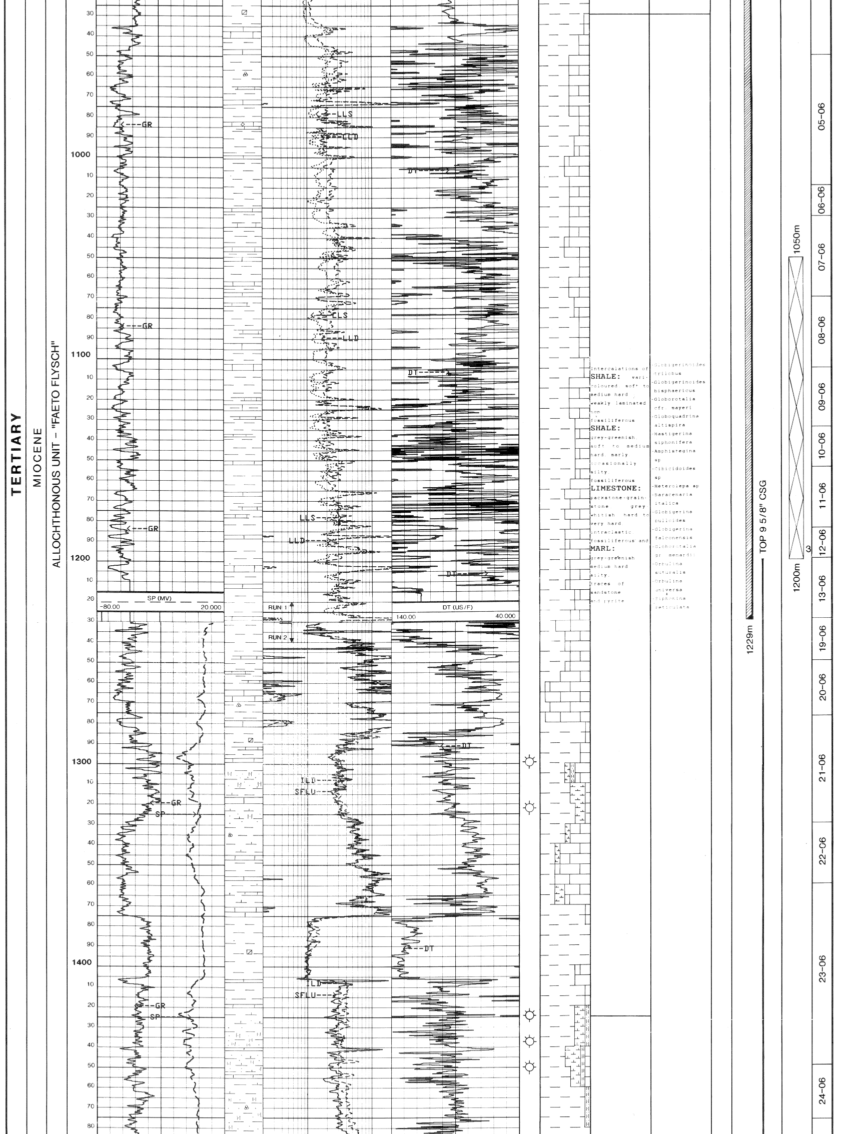
packstone grey hard intraclastic fossiliferous and

SHALE: grey-greenish soft marly silty fossiliferous with minor shale green medium hard weakly laminated traces of marl sandstone and chert

- Globigerina gr bulloides
- Globigerina cfr. foliata
- Globorotalia mayeri
- Globoquadrina altispira
- Hastigerina siphonifera
- Amphistegina sp
- Bulimina gr pupoides
- Heterolepa cfr praecinta
- Amphistegina lessonii
- Elphidium cfr crispum
- Heterolepa mexicana

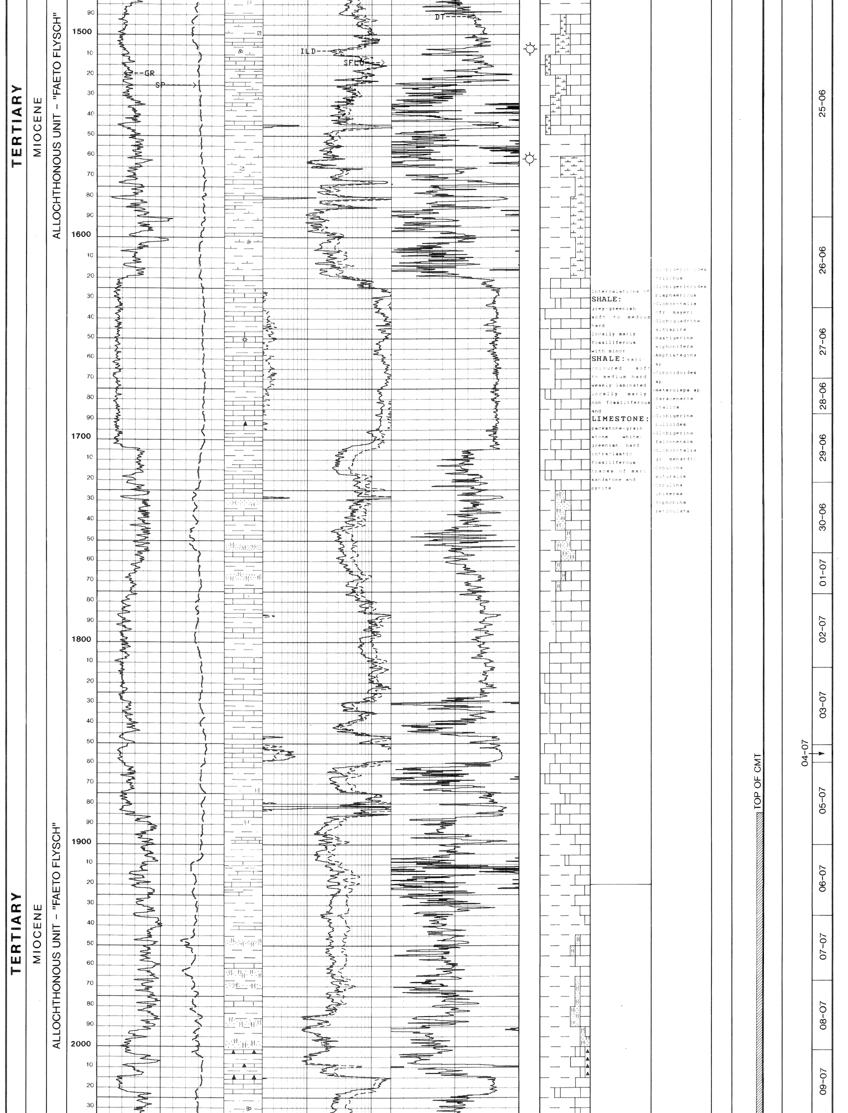
SHALE: varicoloured, soft to medium hard weakly laminated scarce fossil content; traces of pyrite

- Haplophragmoides cfr obliquecarinatus
- Glomospira gordialis



Intercalations of **SHALE:** vari-coloured, soft to medium hard, weakly laminated, non fossiliferous **SHALE:** grey-greenish, soft to medium hard, marly, occasionally silty, fossiliferous **LIMESTONE:** packstone-grainstone, grey-whitish, hard to very hard, intraclastic, fossiliferous and **MARL:** grey-greenish, medium hard, silty, traces of sandstone and pyrite

- Globigerinoides trilobus
- Globigerinoides bisphaericus
- Globorotalia cfr. mayeri
- Globoquadrina altispira
- Hastigerina siphonifera
- Amphistegina sp
- Cibicidoides sp
- Heterolepa sp
- Saracenaria italica
- Globigerina pulloides
- Globigerina falconensis
- Globorotalia gr. menardii
- Orbulina suturalis
- Orbulina universa
- Siphonina reticulata



Intercalations of
SHALE:
grey-greenish,
soft to medium
hard
locally marly,
fossiliferous
with minor
SHALE: vari-
coloured soft
to medium hard
weakly laminated
locally marly,
non fossiliferous
and
LIMESTONE:
packstone-grain-
stone white-
greenish, hard
intraclastic
fossiliferous
traces of marl
sandstone and
pyrite

- Globigerinoides trilobus
- Globigerinoides bisphaericus
- Globorotalia cfr mayeri
- Globoquadrina altispira
- Hastigerina siphonifera
- Amphistegina sp
- Cibicidoides sp
- Heterolepa sp
- Saracenaria italica
- Globigerina bulloides
- Globigerina falconensis
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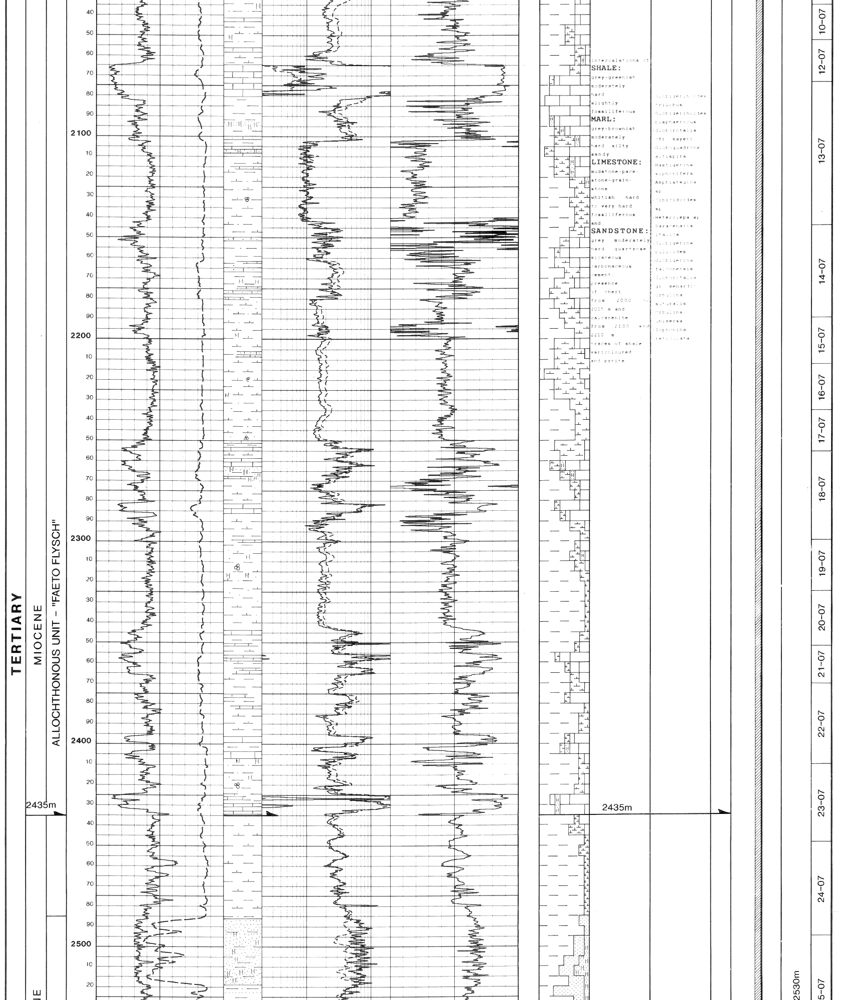
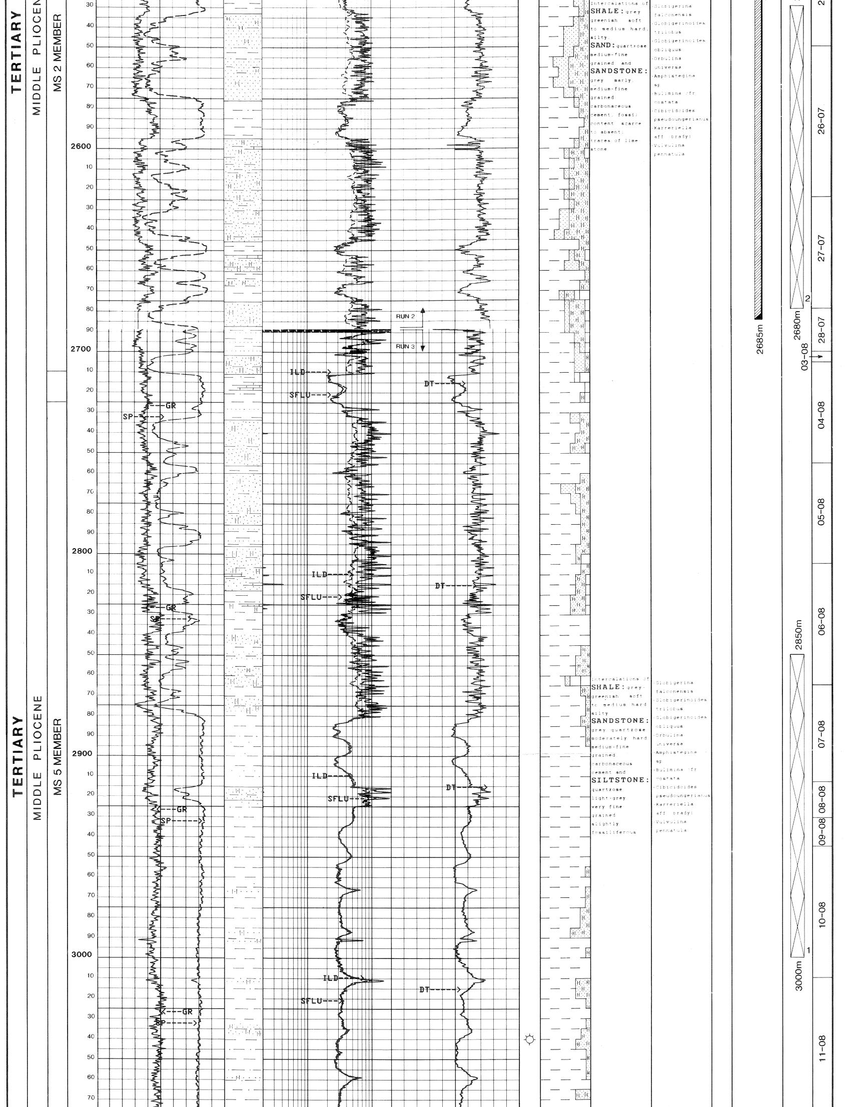


Intercalations of
SHALE: grey-greenish moderately hard slightly fossiliferous
MARL: grey-brownish moderately hard silty sandy
LIMESTONE: mudstone-packstone-grainstone whitish hard to very hard fossiliferous and
SANDSTONE: grey moderately hard quartzose micaceous carbonaceous cement, presence of chert from 2000 to 2015 m and calcarenite from 2100 and 2210 m.
traces of shale varicoloured and pyrite

- Globigerinoides trilobus
- Globigerinoides bisphaericus
- Globorotalia cfr mayeri
- Globoquadrina altispira
- Hastigerina siphonifera
- Amphistegina sp
- Cibicidoides sp
- Heterolepa sp
- Saracenaria italica
- Globigerina bulloides
- Globigerina falconensis
- Globorotalia gr menardii
- Orbulina suturalis
- Orbulina universa
- Siphonina reticulata

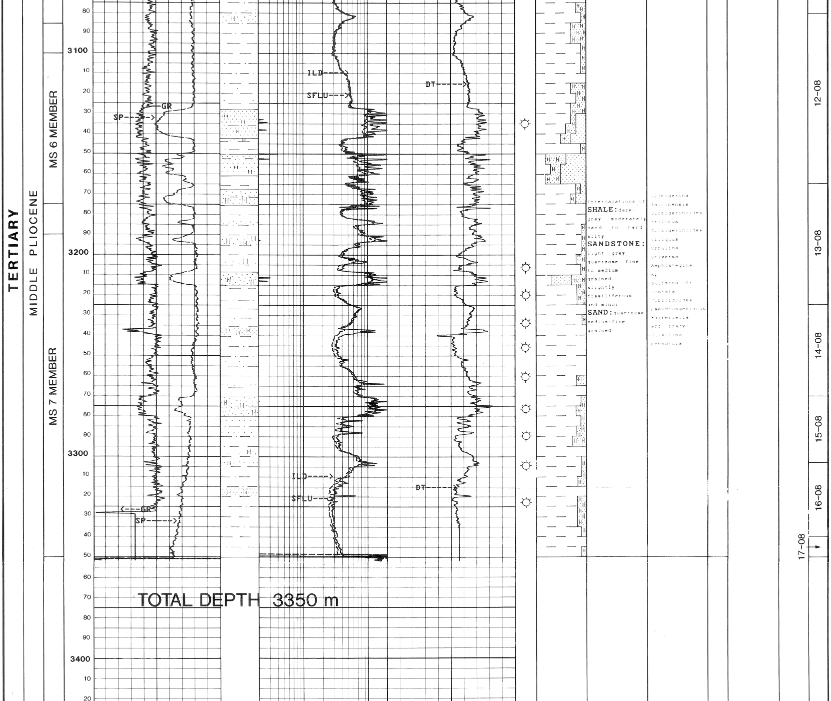


Intercalations of **SHALE:** grey greenish soft to medium hard, silty. **SAND:** quartzose medium-fine grained and **SANDSTONE:** grey marly, medium-fine grained carbonaceous cement, fossil content scarce to absent; traces of limestone

- Globigerina falconensis
- Globigerinoides trilobus
- Globigerinoides obliquus
- Orbulina universa
- Amphistegina sp
- Bulimina cfr costata
- Cibicidoides pseudoungerianus
- Karreriella aff bradyi
- Vulvulina pennatula

Intercalations of **SHALE:** grey-greenish soft to medium hard silty **SANDSTONE:** grey quartzose moderately hard medium-fine grained carbonaceous cement and **SILTSTONE:** quartzose light-grey very fine grained slightly fossiliferous

- Globigerina falconensis
- Globigerinoides trilobus
- Globigerinoides obliquus
- Orbulina universa
- Amphistegina sp
- Bulimina cfr costata
- Cibicidoides pseudoungerianus
- Karreriella aff bradyi
- Vulvulina pennatula



TOTAL DEPTH 3350 m

Intercalations of **SHALE:** dark grey moderately hard to hard silty **SANDSTONE:** light grey quartzose fine to medium grained slightly fossiliferous and minor **SAND:** quartzose medium-fine grained

Globigerina falconensis
Globigerinoides trilobus
Globigerinoides obliquus
Orbulina universa
Amphistegina sp
Bulimina cfr costata
Cibicidoides pseudoungerianus
Karreriella aff bradyi
Vulvulina pennatula