6314 BIL

LASMO International Ltd

ALL. 1

QUERCIOLA - 1 COMPOSITE LOG

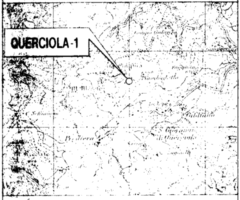
E/PROF 01

AGIP ARCHIVIO POZZI DAGE

AREA	NORTHERN APENNINES	LOCATION (International Ellipsoid)	
PERMIT	CASTELNOVO NE' MONTI	GEOGRAPHIC (Monte Mario Datum 1940)	44° 32' 02.5" N 01° 53' 35.0" W
CONTRACTOR/RIG	DELTA / NATIONAL 1320		
DATE RIG OBTAINED	10TH DECEMBER 1990	GAUSS BOAGA (surface)	4,932,411 N 1,623,952 E
DATE WELL SPUDDED	14TH DECEMBER 1990		
DATE TD REACHED	9TH MAY 1991	(bottom hole)	4,932,427 N 1,623,989 E
DATE RIG RELEASED	6TH JUNE 1991		
TOTAL DEPTH	3845 MBRT DRILLER	GROUND ELEVATION	633 M AMSL
	3852 MBRT LOGGER	KB ELEVATION	642 M AMSL

SCALE 1 : 1,000 FINAL STATUS: PLUGGED & ABANDONED; GAS SHOWS

LOCATION MAP



Prov. : REGGIO EMILIA Com. : VIANO
Sheet : IGM 85 IV SO Scale : 1:25,000

PARTNERSHIP

- LASMO INTERNATIONAL LTD. (OPERATOR) 70 %
- TEXACO EUROPE EXPLORATION 30 %

PERSONNEL

WELL SITE GEOLOGISTS : ALBERT VAN ZUTPHEN
GIUSEPPE RIGO

DRILLING SUPERVISORS: GIOVANNI INDRI
DAVID NEWBOULD
IAIN MORTIMER

SERVICE COMPANIES

MUD LOGGING	DATA UNIT SRL
WIRELINE LOGGING	SCHLUMBERGER SPA
SEISMIC OPERATIONS	SCHLUMBERGER SPA
DRILLING FLUIDS	M-I ITALIANA SPA.
CEMENTING	B.J. SERVICE ITALIA SRL.
MUD WASTE DISPOSAL	RICCOBONI SRL.
BIOSTRATIGRAPHY	DR. A.M. BORSETTI DR. A. NEGRI
CASING RUNNING	WEATHERFORD

DRILLING DATA

HOLE SIZE	INTERVAL(metres)
36"	13 - 36
26"	36 - 407
17 1/2"	407 - 1603
12 1/4"	1603 - 2721
8 1/2"	2721 - 3845

DRILLING FLUID

INTERVAL (metres)	SYSTEM
13 - 1603	FRESH WATER / GEL / BENTONITE / LIGNOSULPHONATE
1603 - 3845	OIL BASED MUD

Foka

CEMENT PLUGS

No.	INTERVAL (metres)
1	1705 - 1765
2	3690 - 3845
3	2592 - 2698
4	1532 - 1645
5	200 - 300
6	13 - 200

CASING DATA

SIZE	TYPE	SHOE DEPTH (metres)	CEMENT
30"	X56 VETCO ALT 2 3 JTS. 234 LB/F.	34	13 TONS CLASS G + CaCl$_2$ 2%; 1,90 KG/LT.
20"	K55 BTC 32 JTS. 133 LB/F.	404	LEAD: 30 TONS CLASS G + GEL 3%; 1,50 KG/LT. TAIL: 39 TONS CLASS G + R-12L 0,2 LT/100 KG; 1,90 KG/LT.
13 3/8"	N80 BTC 129 JTS. 68 LB/F.	1598	LEAD: 30 TONS CLASS G + GEL 2,5%; 1,60 KG/LT. TAIL: 20 TONS CLASS G + R-12L 0,8 LT/100 KG + CD-31L 0,2 LT/100 KG; 1,90 KG/LT.
9 5/8"	N80 FOX 217 JTS. 47 LB/F.	2717	20 TONS CLASS G + W10 32% + R-12L 0,4% + CD-31L 2%; 2,20 KG/LT.

LOGGING SUMMARY

DATE	LOG	JOB / RUN	INTERVAL (metres)	REMARKS
30/01/91	DIL-SLS-GR-SP-CAL	1 / 1	403 - 1603	GR THROUGH CASING 403-30.
30/01/91	SHDT-GR	1 / 2	403 - 1604	
04/04/91	DIL-SLS-GR	2 / 1	1601 - 2724	
04/04/91	OBDT-GR	2 / 2	1601 - 2726	
29/04/91	DIL-SLS-GR	3 / 1	2724 - 3503	
29/04/91	SAS	3 / 2	200 - 3500	56 LEVELS
29/04/91	OBDT-GR	3 / 3	2724 - 3505	
09/05/91	DIL-SLS-GR	4 / 1	3503 - 3849	
[illegible]	[illegible]	4 / 2	~~3504 - 3851~~	
10/05/91	WSS	4 / 3	443 - 3850	39 LEVELS

CORE DATA

No.	INTERVAL (metres)	FORMATION	RECOVERY	BIT TYPE	REMARKS
	NO CORES CUT				

RFT TEST

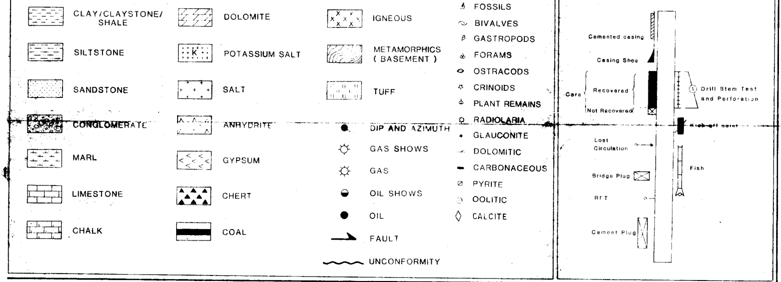
No.	DEPTH (metres)	HYDRO.P. (PSI)	F.M.P. (PSI)	REMARKS
	NONE			

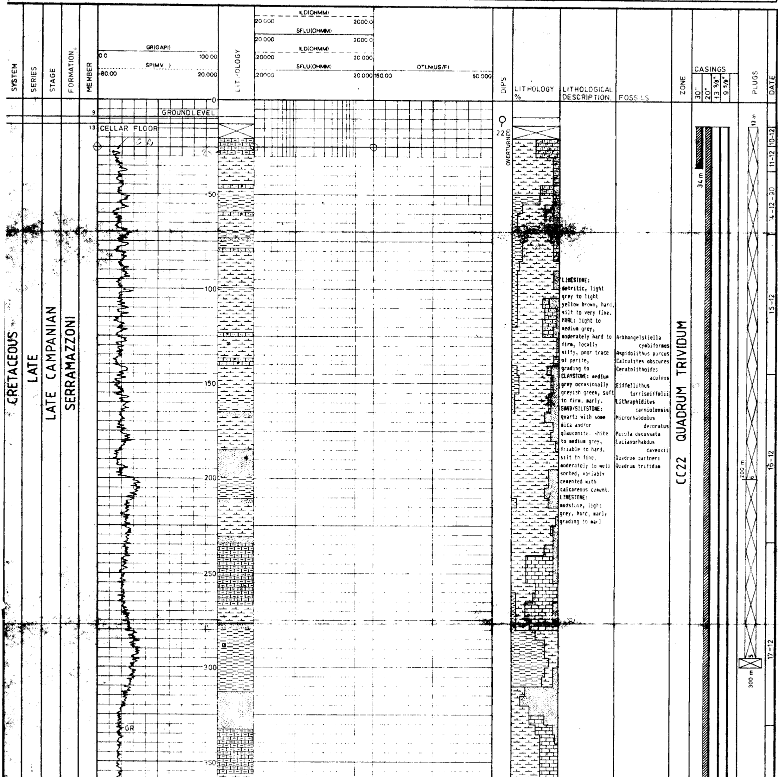
DST DATA

No.	INTERVAL (metres)	FORMATION	FINAL FLOW RATE	BHFP (PSI)	WHFP (PSI)	FSIP (PSI)	CHOKE SIZE	GOR (SCF/BBL)	API°	S.G.	REMARKS
	NONE										

LITHOLOGYA

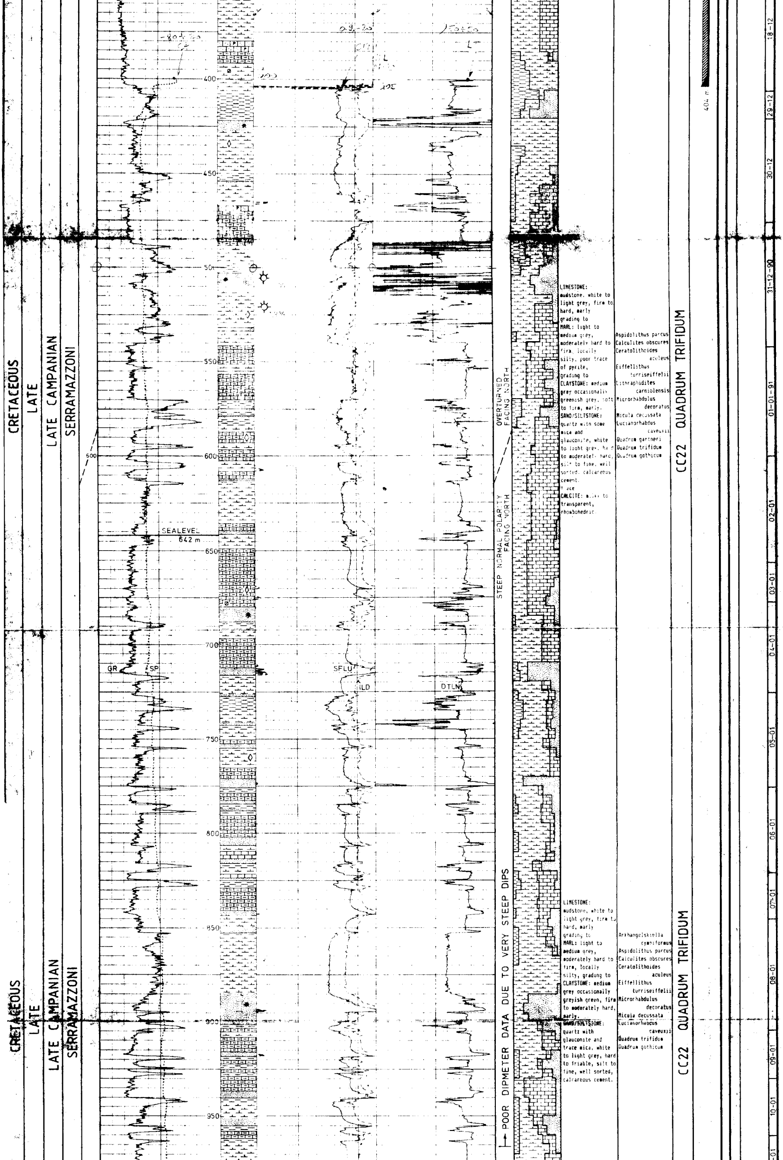
SYMBOLS





LIMESTONE: detritic, light grey to light yellow brown, hard, silt to very fine. **MARL:** light to medium grey, moderately hard to firm, locally silty, poor trace of pyrite, grading to **CLAYSTONE:** medium grey occasionally greyish green, soft to firm, marly. **SAND/SILTSTONE:** quartz with some mica and/or glauconite, white to medium grey, friable to hard, silt to fine, moderately to well sorted, variably cemented with calcareous cement. **LIMESTONE:** mudstone, light grey, hard, marly grading to marl

Arkhangelskiella cymbiformus
Aspidolithus parcus
Calculites obscures
Ceratolithoides aculeus
Eiffellithus turriseiffelii
Lithraphidites carniolensis
Microrhabdulus decoratus
Micula decussata
Lucianorhabdus caveuxii
Quadrum gartneri
Quadrum trifidum

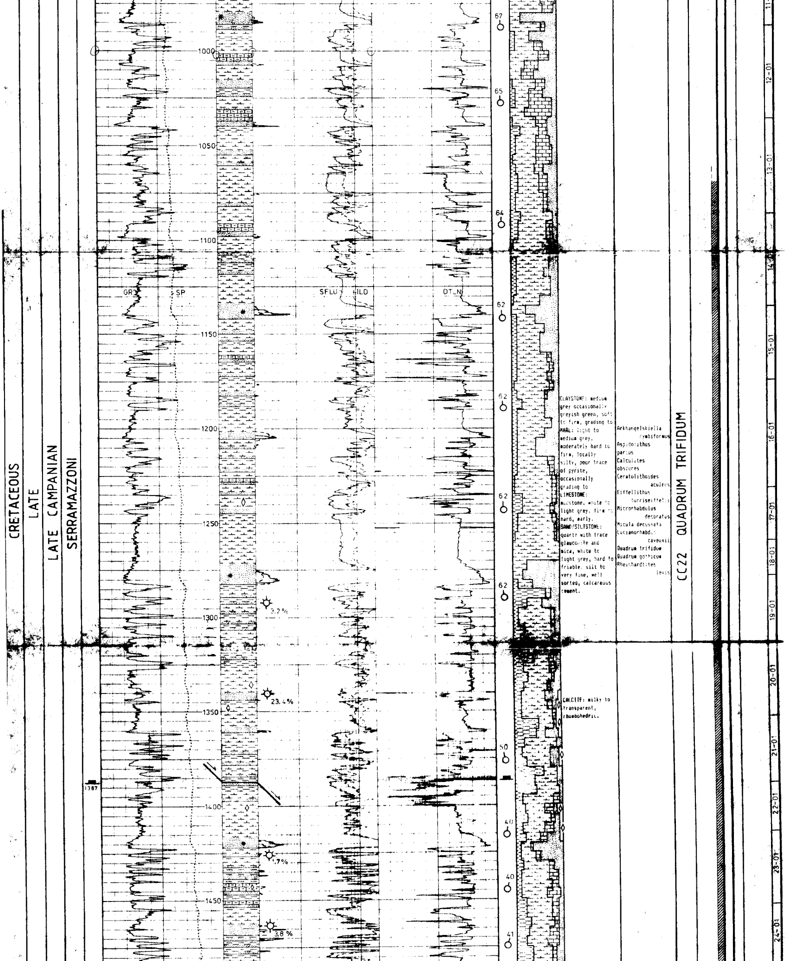


LIMESTONE: mudstone, white to light grey, firm to hard, marly grading to **MARL:** light to medium grey, moderately hard to firm, locally silty, poor trace of pyrite, grading to **CLAYSTONE:** medium grey occasionally greenish grey, soft to firm, marly. **SAND/SILTSTONE:** quartz with some mica and glauconite, white to light grey, hard to moderately hard, silt to fine, well sorted, calcareous cement.
Trace **CALCITE:** milky to transparent, rhombohedric.

Aspidolithus parcus
Calculites obscures
Ceratolithoides aculeus
Eiffellithus turriseiffelii
Lithraphidites carniolensis
Microrhabdulus decoratus
Micula decussata
Lucianorhabdus caveuxii
Quadrum gartneri
Quadrum trifidum
Quadrum gothicum

LIMESTONE: mudstone, white to light grey, firm to hard, marly grading to **MARL:** light to medium grey, moderately hard to firm, locally silty, grading to **CLAYSTONE:** medium grey occasionally greyish green, firm to moderately hard, marly.
SAND/SILTSTONE: quartz with glauconite and trace mica, white to light grey, hard to friable, silt to fine, well sorted, calcareous cement.

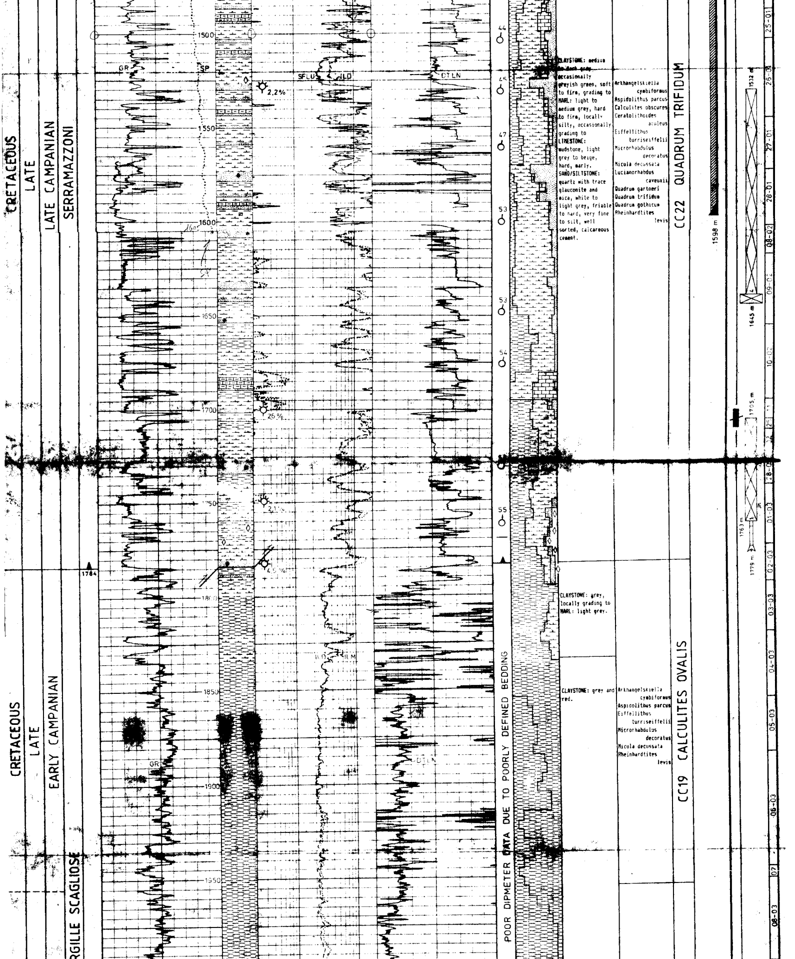
Arkhangelskiella cymbiformus
Aspidolithus parcus
Calculites obscures
Ceratolithoides aculeus
Eiffellithus turriseiffelii
Microrhabdulus decoratus
Micula decussata
Lucianorhabdus caveuxii
Quadrum trifidum
Quadrum gothicum



CLAYSTONE: medium grey occasionally greyish green, soft to firm, grading to **MARL:** light to medium grey, moderately hard to firm, locally silty, poor trace of pyrite, occasionally grading to **LIMESTONE:** mudstone, white to light grey, firm to hard, marly. **SAND/SILTSTONE:** quartz with trace glauconite and mica, white to light grey, hard to friable, silt to very fine, well sorted, calcareous cement.

Arkhangelskiella cymbiformus
Aspidolithus parcus
Calculites obscures
Ceratolithoides aculeus
Eiffellithus turriseiffelii
Microrhabdulus decoratus
Micula decussata
Lucianorhabdus caveuxii
Quadrum trifidum
Quadrum gothicum
Rheinhardtites levis

CALCITE: milky to transparent, rhombohedric.



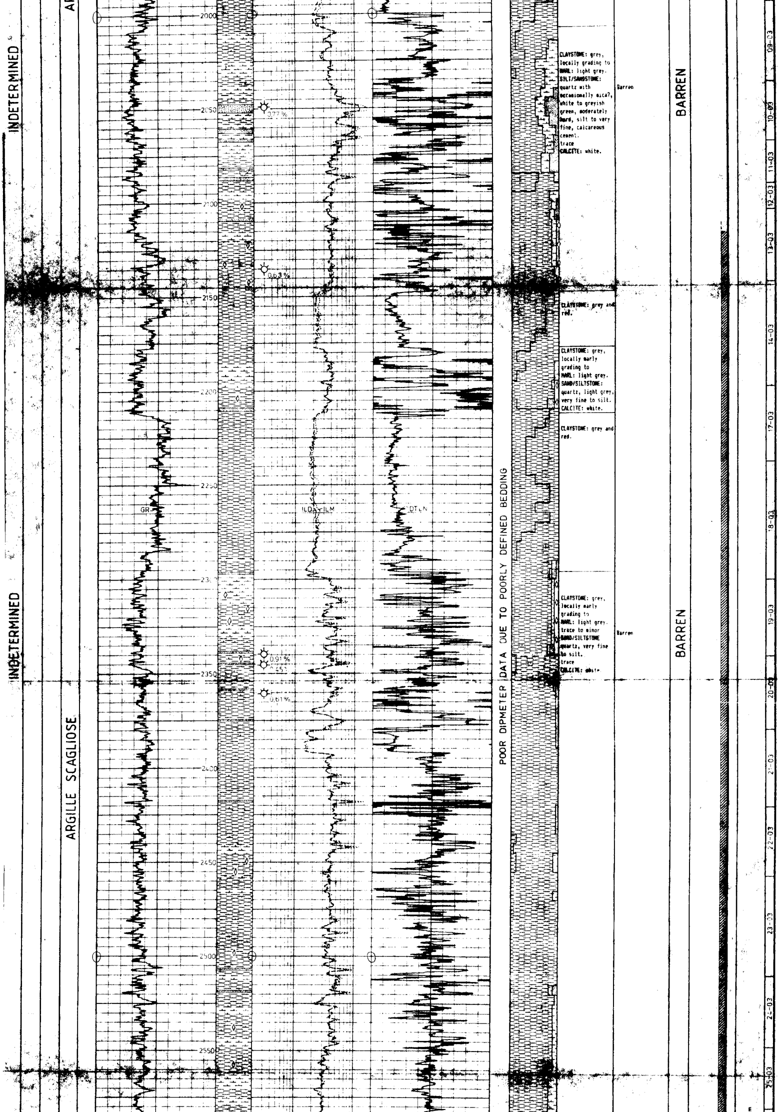
CLAYSTONE: medium to dark grey, occasionally greyish green, soft to firm, grading to MARL: light to medium grey, hard to firm, locally silty, occasionally grading to LIMESTONE: mudstone, light grey to beige, hard, marly. SAND/SILTSTONE: quartz with trace glauconite and mica, white to light grey, friable to hard, very fine to silt, well sorted, calcareous cement.

Arkhangelskiella cymbiformus
Aspidolithus parcus
Calculites obscures
Ceratolithoides aculeus
Eiffellithus turriseiffelii
Microrhabdulus decoratus
Micula decussata
Lucianorhabdus caveuxii
Quadrum gartneri
Quadrum trifidum
Quadrum gothicum
Rheinhardtites levis

CLAYSTONE: grey, locally grading to MARL: light grey.

CLAYSTONE: grey and red.

Arkhangelskiella cymbiformus
Aspidolithus parcus
Eiffellithus turriseiffelii
Microrhabdulus decoratus
Micula decussata
Rheinhardtites levis



CLAYSTONE: grey, locally grading to **MARL**: light grey. **SILT/SANDSTONE**: quartz with occasionally mica?, white to greyish green, moderately hard, silt to very fine, calcareous cement. trace **CALCITE**: white.

Barren

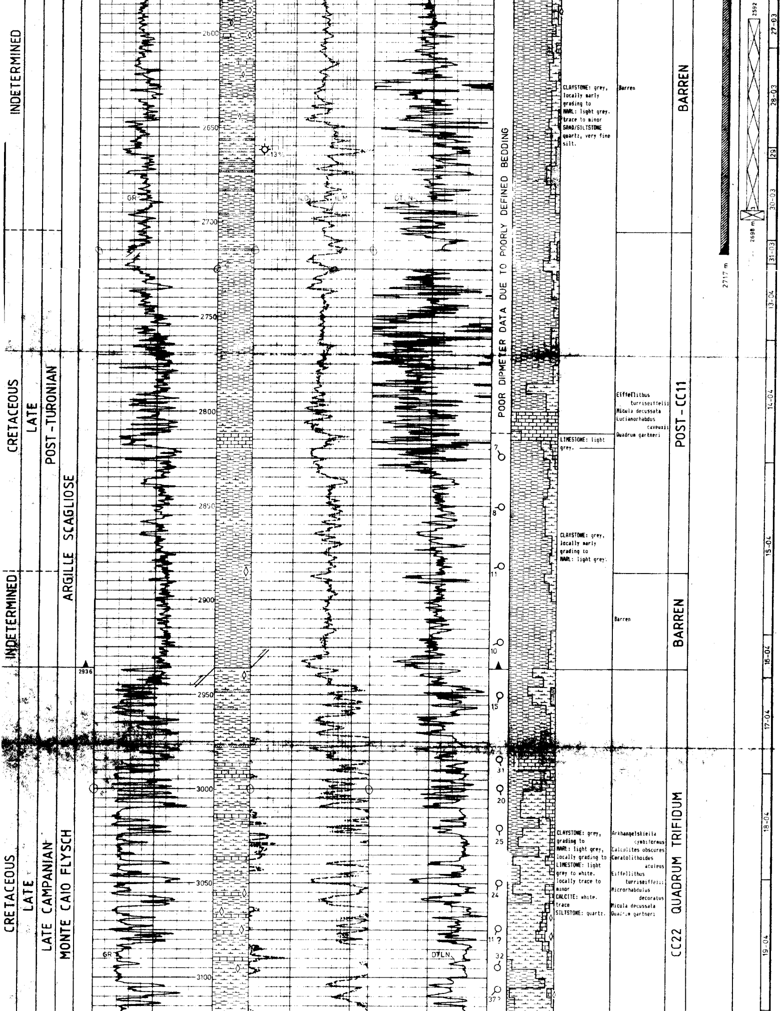
CLAYSTONE: grey and red.

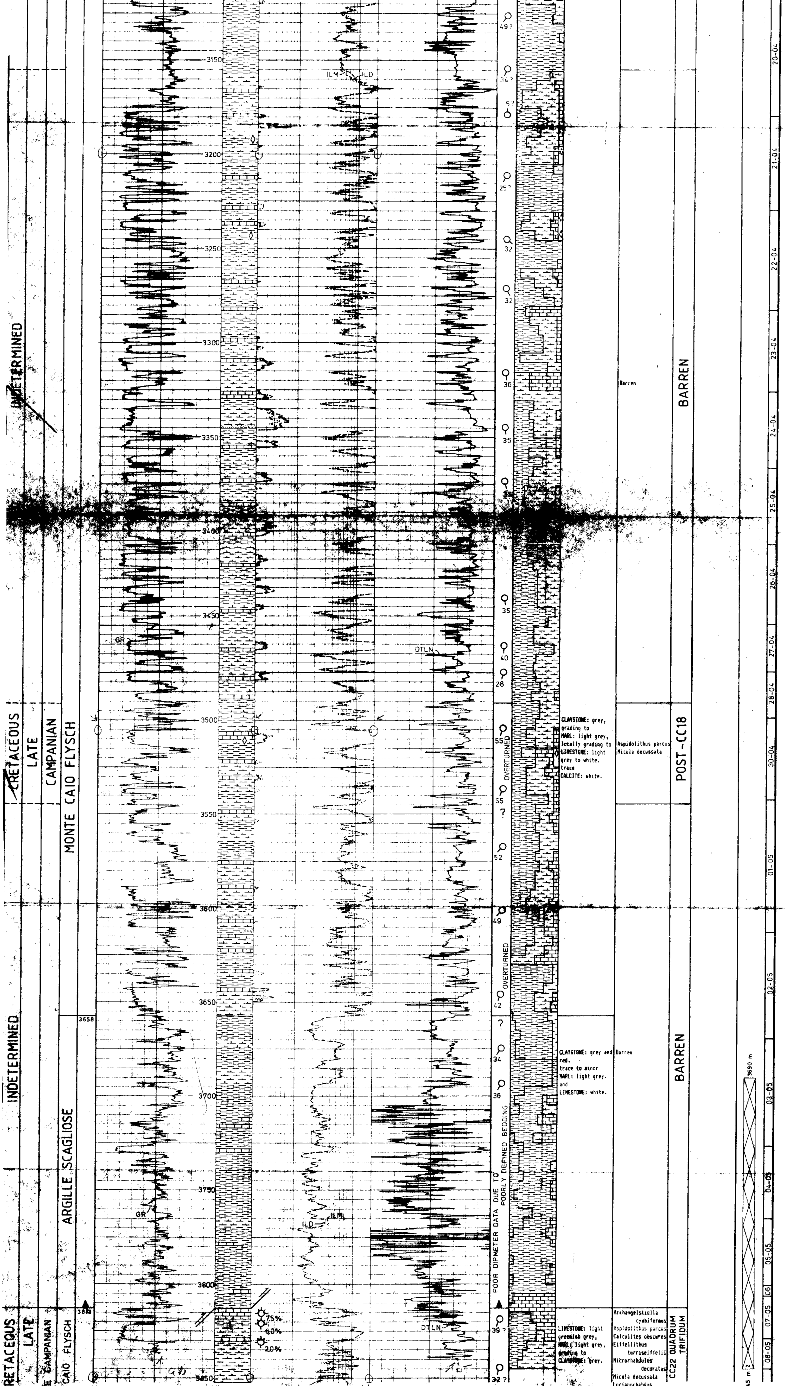
CLAYSTONE: grey, locally marly grading to **MARL**: light grey. **SAND/SILTSTONE**: quartz, light grey, very fine to silt. **CALCITE**: white.

CLAYSTONE: grey and red.

CLAYSTONE: grey, locally marly grading to **MARL**: light grey. trace to minor **SAND/SILTSTONE** quartz, very fine to silt. trace **CALCITE**: white

Barren





TOTAL DEPTH: 3852 MBRT (3850 MBRT TV) LOGGER
3845 MBRT DRILLER