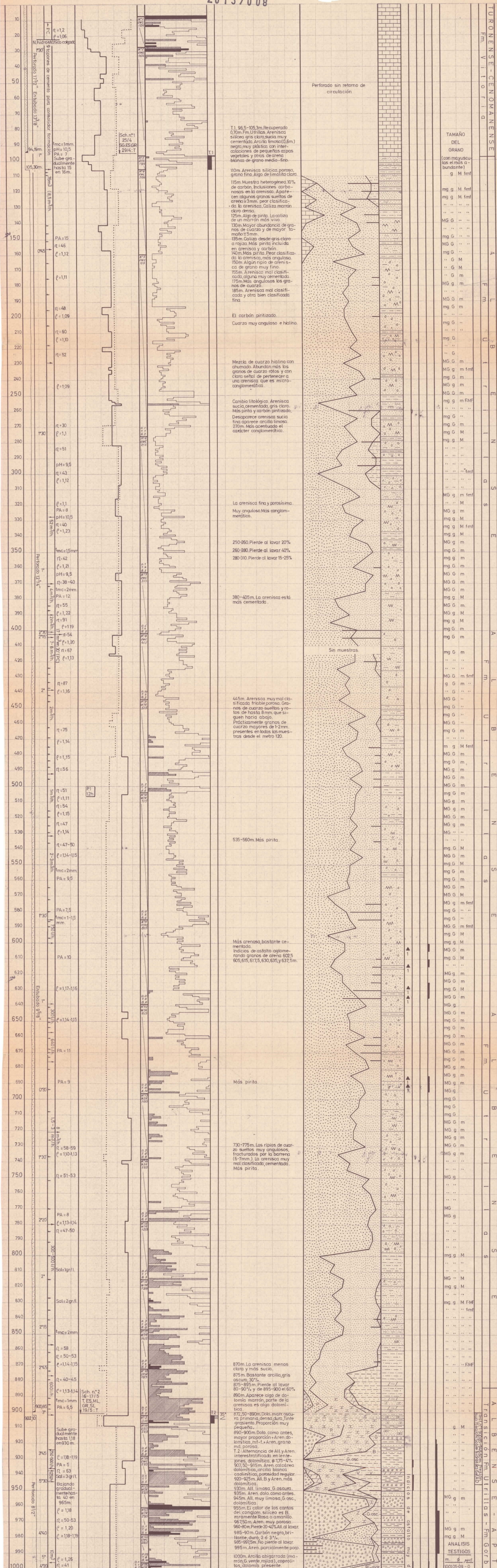


201370.08

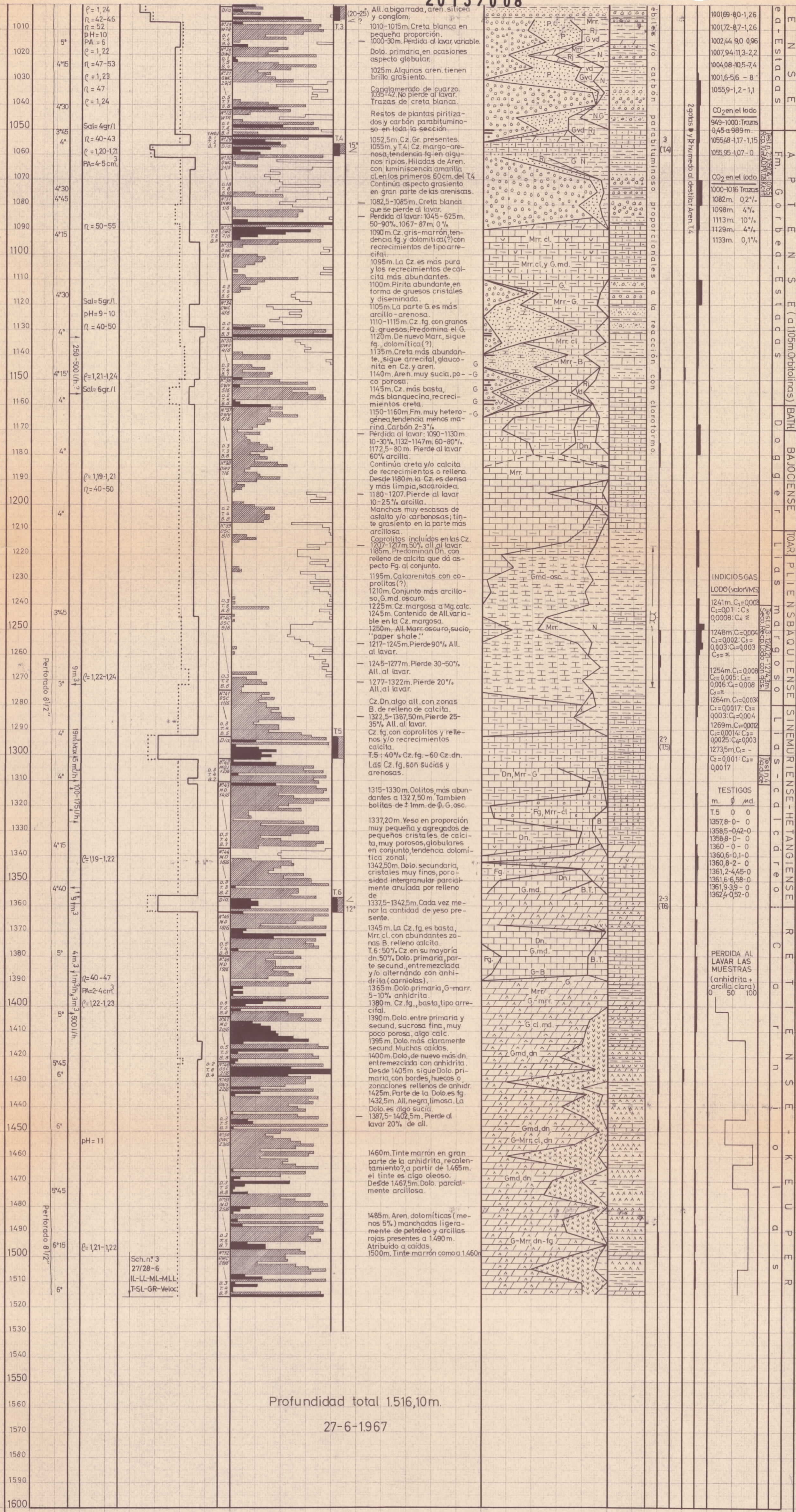


20137

SOBRON-1(bis)

De 1000 a 2000 m.

20137008



Profundidad total 1516,10m.

27-6-1967

SCHLUMBERGER

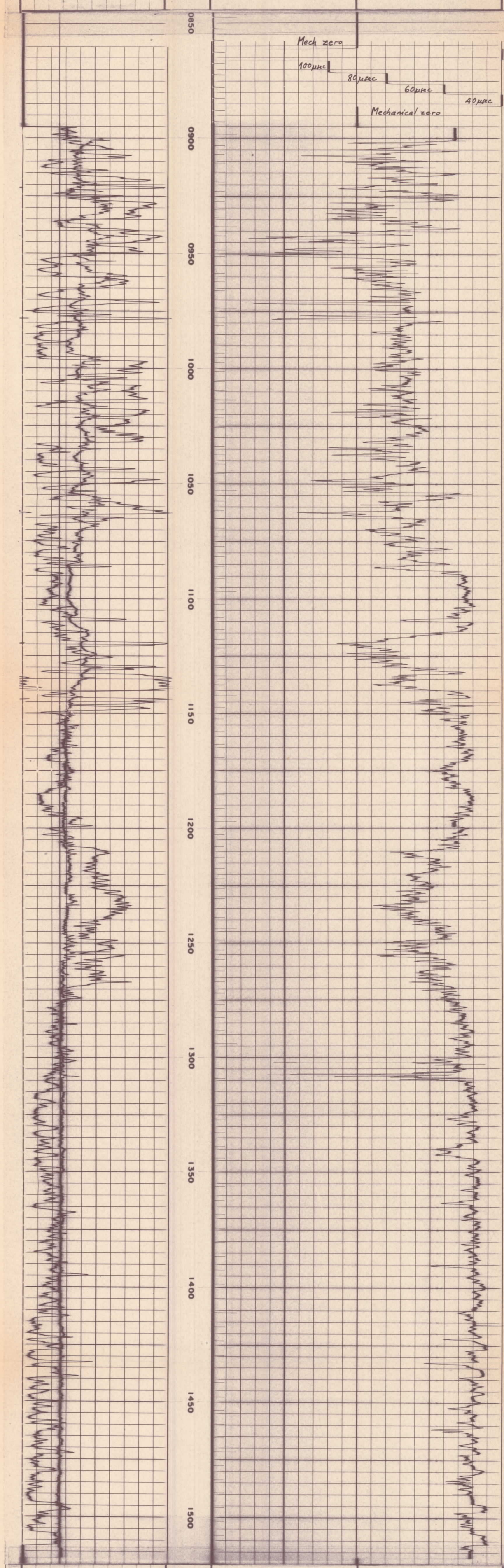
BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY

COUNTRY <u>SPAIN</u>		COMPANY <u>CIEPSA</u>
FIELD <u>SOBRON</u>		WELL <u>SOBRON 1 bis</u>
WELL <u>SOBRON 1 bis</u>		FIELD <u>SOBRON</u>
COUNTRY <u>SPAIN</u>		STATE <u>ALAVA</u>
Location :		
Other Services : ISS, MPL, LPT		Ref. No
Permanent Datum <u>K.B.</u>		Elev. <u>K.B.</u>
Log Measured From <u>K.B.</u>		Ft. Above Perm. Datum <u>D.F.</u>
Drilling Measured From <u>K.B.</u>		C.L.
RUN No. 1 Depth Sale <u>1</u>	<u>1/1000</u>	
Date <u>28 June 1967</u>	<u>1514</u>	
First Reading <u>901.5</u>		
Last Reading <u>612.5</u>		
Interval Measured <u>901.5</u>		
Casing Schlumberger <u>900.8</u>		
Casing Driller <u>1516.50</u>		
Depth Reached <u>1516.10</u>		
Bottom Driller <u>Bentonite</u>		
Mud Nature <u>1.22</u>	<u>44</u>	
Density 1 Viscosity <u>0.44</u>	<u>200 CF</u>	
Mud Resistivity <u>0.32</u>	<u>200 CF</u>	
pH 1 Fluid Loss <u>10</u>	<u>1.5 CC/30 min.</u>	
Origin of Sample <u>CIRCULATION</u>		
Rmt <u>0.32</u>	<u>200 CF</u>	
Rmc <u>0.32</u>	<u>200 CF</u>	
Bit Size <u>8 1/2</u>	<u>To 1516.5</u>	
Casing Size <u>9 5/8"</u>	<u>To</u>	
Operating Rig Time <u>3 1/2 HRS</u>	<u>To</u>	
Truck No <u>4504</u>		
Recorded By <u>STERNA</u>		
Witness <u>PARODIAS</u>		

REMARKS : Velocity = $\frac{1,000,000}{\text{Interval Transit Time (microsec. ft)}}$

GAMMA RAY CALIBRATION DATA				GAMMA RAY RECORDING DATA			
Background	50	cps		Run No	1		
+ Test Source	340	cps		Fluid Level	Full		
Galva Increase	8.25	div.		Sensitivity Tap	300		
Sensitivity Tap	500			Time Constant	3		
BHC SONIC RECORDING DATA				GR Panel No	GNP-C 359		
Centralizers	SPRING			GR Cartridge No	SGC-C 114		
Cartridge No	SLC-B 214			GR Detector No	SGD-R 218		
Sonde No	SLD-D 222						
Panel No	SLP-B 225						

GAMMA RAY API UNITS		DEPTHS	INTERVAL TRANSIT TIME microseconds per foot Spacing	
GAMMA RAY ZERO <u>0</u> DIVISIONS TO LEFT OF THIS LINE			140	90 40
←			190 140	
60				
CALIPER Inches				
7 8 9 10 11 12 13 14 15				



CALIPER Inches		DEPTHS	INTERVAL TRANSIT TIME microseconds per foot Spacing	
GAMMA RAY ZERO <u>0</u> DIVISIONS TO LEFT OF THIS LINE			140	90 40
←			190 140	
60				
CALIPER Inches				
7 8 9 10 11 12 13 14 15				

COMPANY <u>CIEPSA</u>	SCHL. F.R. <u>1514</u>
WELL <u>SOBRON 1 bis</u>	SCHL. T.D. <u>1516.5</u>
FIELD <u>SOBRON</u>	DLR. T.D. <u>1516.10</u>
COUNTRY <u>SPAIN</u>	STATE <u>ALAVA</u>

SCHLUMBERGER
BOREHOLE COMPENSATED
SONIC LOG

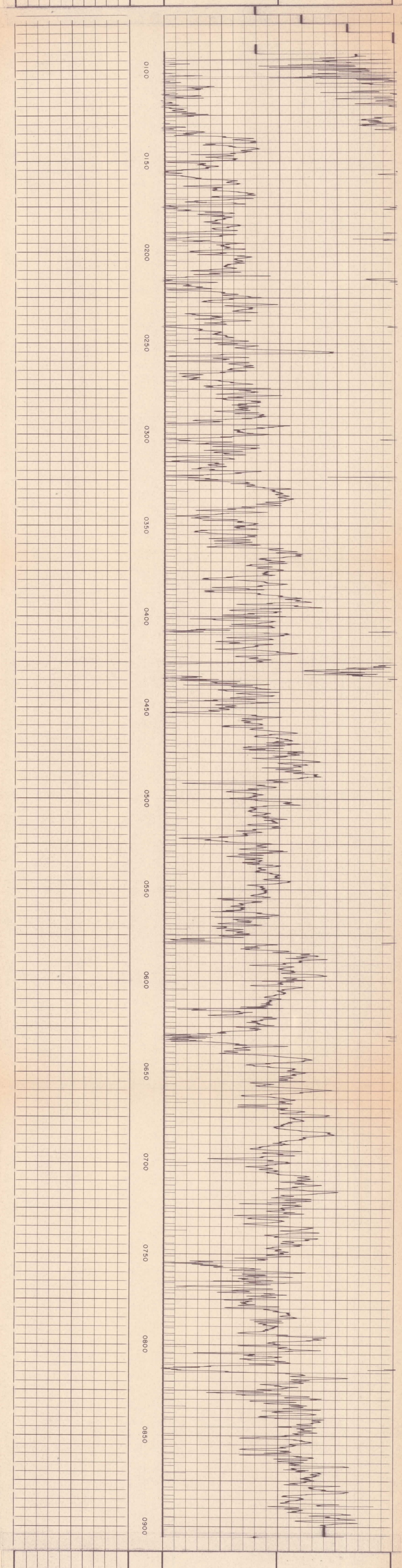
COUNTRY	ESPAÑA	COMPANY	CIEPSA
FIELD	SOBRON	WELL	20137
WELL	1 bis	FIELD	SOBRON
COUNTRY	ESPAÑA	STATE	ALAVA
Location :	Other Services : SS-7-MTC-08		
Permanent Datum	KB	Elev. :	
Log Measured From	KB	Fi. Above Perm. Datum	
Drilling Measured From	KB	G. L.	
ROM No. 1 Depth Sals	1	1/1000	
Date	17 MAY 1967		
First Reading	898,50		
Last Reading	93,70		
Interval Measured	804,80		
Casing Solumberger	93,70		
Casing Driller	94,19		
Depth Reached	902,20		
Bottom Driller	902,10		
Mud Nature	Bentonite		
Density / Viscosity	1,14 @ 47		
Mud Resistivity	2,15 @ 140 G.F.		
Mud Resistivity BHT	1,60 @ 25,50 ft		
OH 1 Fluid Loss	9,71 7,7 CC/30 min.		
Origin of sample	CIRCUITACION		
Ref. CHART	1,30 @ 25,50 ft		
Rmc. CHART	1,65 @ 25,50 ft		
Bit Size	12 1/4 to 902,1		
Casing Size	13 3/8		
Operating Rig Time	1 H. 30		
Truck No.	4504		
Recorded by	YMON		
Witness	LIAMAZARES		

REMARKS :

Velocity = 1.000.000
(Feet/sec.) = Interval Transit Time (microsec. ft)

RECORDING DATA		EQUIPMENT DATA	
RUN No	1	RUN No	1
Recording Speed	15 m/min	Cartridge No	SLC B 234
Centralizers	YES	Sonde No	SLS D 222
		Panel No	SCP B 225

SPONTANEOUS POTENTIAL millivolts		INTERVAL TRANSIT TIME microseconds per foot Spacing : 2 ft.	
- < > +		140 90 40 190 140	
CALIPER Inches		1 millisecond Integrated Transit Time 10 milliseconds	
7 8 9 10 11 12 13 14 15			



SPONTANEOUS POTENTIAL millivolts		INTERVAL TRANSIT TIME microseconds per foot Spacing : 2 ft.	
- < > +		140 90 40 190 140	
CALIPER Inches		1 millisecond Integrated Transit Time 10 milliseconds	
7 8 9 10 11 12 13 14 15			

COMPANY	CIEPSA	SCHL. F.R.	898,50
WELL	1 bis	SCHL. T.D.	902,20
FIELD	SOBRON	DRLR. T.D.	902,10
COUNTRY	ESPAÑA	STATE	ALAVA

SCHLUMBERGER

GAMMA RAY

COUNTRY
FIELD
WELL
COMPANYESPAÑA
SOBRON
S 1 big
CIEPSA

COMPANY

CIEPSA

20137

WELL

S 1 big

FIELD

SOBRON

COUNTRY

ESPAÑA

STATE

ALAVA

Location :

Other Services :

Ref. No

Permanent Datum

K.B.

Elev. :

Elev. : K.B.

Log Measured From

K.B.

Ft. Above Perm. Datum

D. F.

Drilling Measured From

K.B.

Ft. Above Perm. Datum

G. L.

RUN No. | Depth Scale

1

1/1000

Date

28 April 1967

First Reading

94

Last Reading

00

Interval Measured

94

Casing Schlumberger

-

Casing Driller

-

Depth Reached

95.3

Bottom Driller

105

Mud Nature

Agua

Density | Viscosity

|

Mud Resistivity

@

°F

@

°F

@

°F

Mud Resistivity BHT

@

°F

@

°F

@

°F

pH | Fluid Loss

|

CC/30 min.

| CC/30 min.

| CC/30 min.

Origin of Sample

Rmf

@

°F

@

°F

@

°F

Rmc

@

°F

@

°F

@

°F

Bit Size

1

To

17 1/2

To

105

To

Casing Size

-

Operating Rig Time

1 Hr.

Truck No

1774

Recorded By

D. SIERRA

Witness

PARADINAS

FOLD HERE

REMARKS :

GAMMA RAY RECORDING DATA

GAMMA RAY CALIBRATION DATA

RUN No

1

Background

+ Test Source

Galva Increase

Sensitivity Tap

40

400

100

500

cps

cps

div.

cps

cps

div.

Fluid Level

25

Sensitivity Tap

150

Time Constant

3

Recording Speed

6 m/min.

Cartridge No

GNC-D 292

Detector No

SGD-P 750

CASING COLLARS

NOT CORRECTED DEPTHS

DEPTHS

GAMMA RAY

Gamma Ray Zero
To left of this line

0

divisions

0000

0050

CASING COLLARS

NOT CORRECTED DEPTHS

DEPTHS

GAMMA RAY

Gamma Ray Zero
To left of this line

0

divisions

COMPANY

CIEPSA

WELL

S 1 big

FIELD

SOBRON

COUNTRY

ESPAÑA

STATE

ALAVA

SCHL. F.R.

94

SCHL. T.D.

95.3

DRIR. T.D.

105

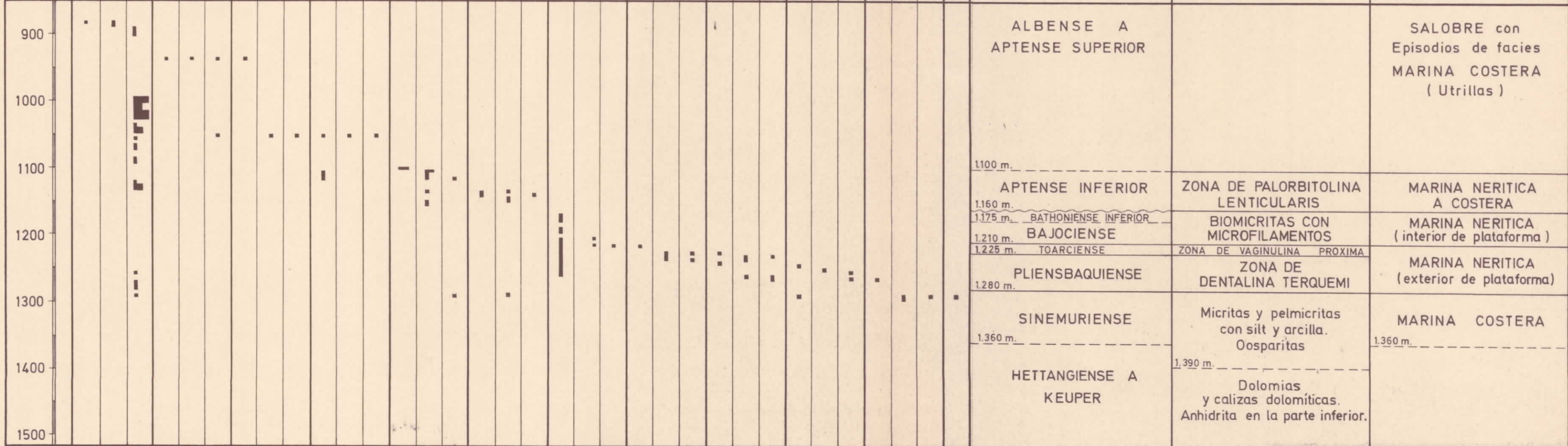
CALIBRATION FILMS

Indice alfabético
de los
microfósiles

29	27	30	16	5	3	1	12	20	26	6	17	23	2	10	8	25	31	28	19	15	32	34	33	14	7	24	13	22	9	18	4	21	11
Astacolus matutina	Astacolus radiata	Bairdia molesta	Briozoa	Cliothrocytheridea aff. brevis	Coprolitos de Gasteropodos	Corbula striatula	Cytherella ovata	Dentalina toarcensis	Dolocytheridea cf. bosquetiana	Equinodermos	Fondicularia bicosiata	Glaucania sp.	Haplophragmium sp.	Haplophragmoides greigi	Hungarella amathei	Lamelibranchios	Lenticulina münsteri	Lenticulina sp.	Lingulina sp.	Lituolidae	Moluscos	Palorbitolina lenticularis	Paracypris sp.	Planularia sp.	Plicatula sp.	Procytheridea cf. sermoensis	Quinqueloculina sp.	Schuleridea jonesiana	Trochammina sp.	Vaginulina proxima	Valvulamina sp.		

Corbula striatula	Glaucania sp.	Coprolitos de Gasteropodos	Trochammina sp.	Cliothrocytheridea aff. brevis	Dolocytheridea cf. bosquetiana	Paracypris sp.	Haplophragmoides greigi	Quinqueloculina sp.	Haplophragmium sp.	Valvulamina sp.	Cytherella ovata	Plicatula sp.	Palorbitolina lenticularis	Lenticulina sp.	Briozoa	Equinodermos	Schuleridea jonesiana	Lenticulina münsteri	Cytherella toarcensis	Vaginulina proxima	Procytheridea cf. sermoensis	Fondicularia bicosiata	Planularia sp.	Hungarella amathei	Dentalina terquemi	Astacolus radiata	Lamelibranchios	Astacolus matutina	Bairdia molesta	Hungarella contractula	Lingulina sp.	Moluscos	Lituolidae
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34

20137



Profundidad total 1.516,10 m.

- frecuente
- común
- raro

CIEPSA-Vitoria

Anexo a CV-239 ①

Sondeo
SOBRON 1 (bis)
Distribución de microfósiles
ESCALA 1:5.000

REVISADO: Sr. RAMIREZ del POZO

FECH.REV.: DIBUJ.: Santamaría

ARCHI. N°: 2258-M FECHA: 26 - Novbre - 67