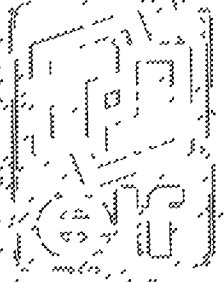


U-104

104 3



SIENS. UL. DIREKTORIJA

DIRECTORAT

SIENS. UL. DIREKTORIJA, STABO, UL. BRICZINSKAJOS 12, 01108 VILNIUS, LIETUVA

006247-29.10675

BA 75-0011-1

Centras de Reserch
de Biomassas

18/11-1 WELL
(NORWAY)

ORGANIC MATTER REFLECTANCE

Centras de Reserch de Biomassas

de Biomassas de Reserch de Biomassas

de Biomassas de Reserch

ELF - R.E.
D. EXPLOR.
Dt. G. C.
LABORATOIRES

-
2035 n°5/1188 R
/eg

BA 75-0011-1

18/11-1 WELL

(NORWAY)

ORGANIC MATTER REFLECTANCE

P. ROBERT

Boussens - Juillet 1975

LISTE DE DIFFUSION

DESTINATAIRES :

DIRECTION EXPLORATION	1
S.I.D.	2
DIVISION 2 - NORVEGE	14

The well has been studied on 20 cutting samples between 500 and 2060 m i.e. from the top Cretaceous to the lower Jurassic.

The Cretaceous is very poor in organic particles and from 1000 to 1520 m gives only some widely scattered histograms of Reflectance, mainly in relation to reworked material.

The Jurassic, well provided in organic matter, mainly coaly, gives a somewhat continuous diagram of reflectance with, nevertheless, 2 populations (0.3 and 0.6 %) in the upper part (during drilling before installation of casing). The lower part which is more regular, possibly due to the casing protection, consists only of coal whose vitrinite reflectance remains at about 0.4 %.

Therefore, the diagenetic evolution of the Jurassic series remains low and somewhat weak or at the lowest limit of oil generation.

This is to be compared with the diagenesis of the neighbouring wells, the data of which at the same depth 7000' were as follows :

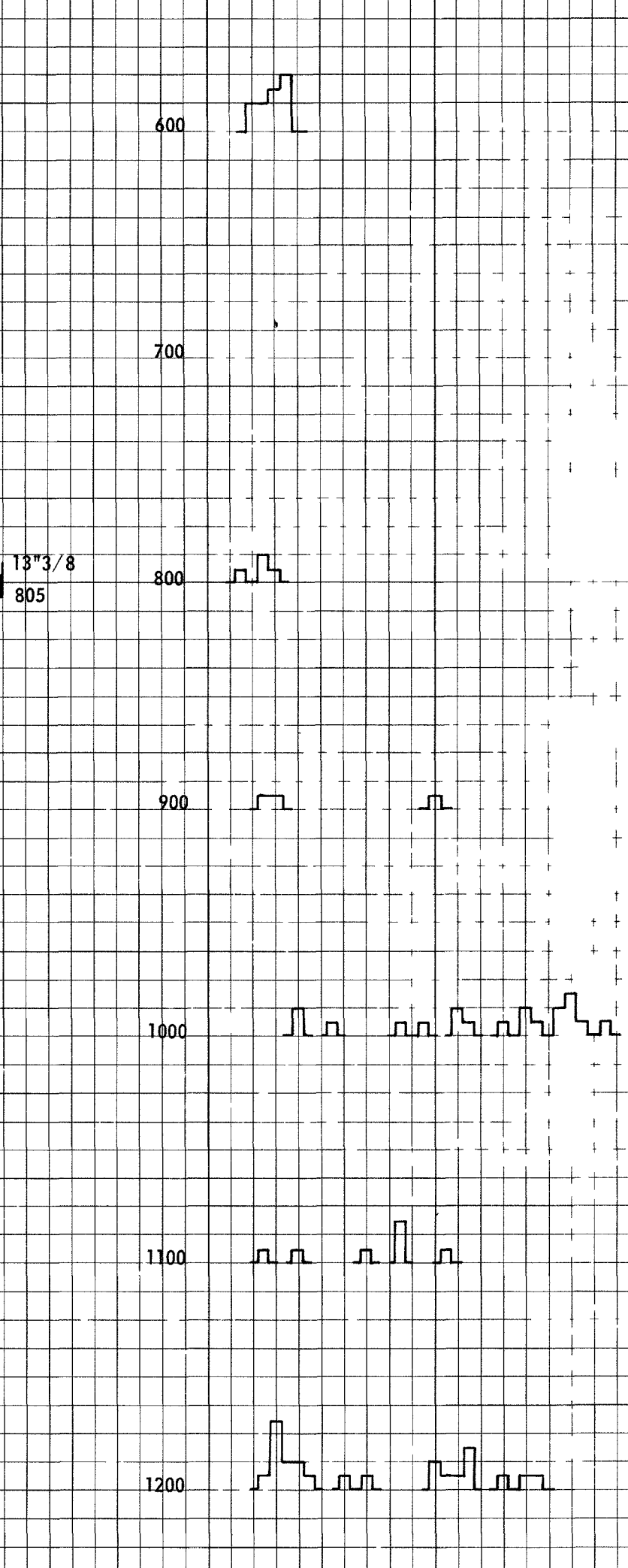
17/11-1	17/12-2	17/12-1	18/11-1
P.R.% 0.30	0.50	0.60	0.40

This result is in concordance with a well-defined regional pattern with a maximum paleoheating, in the middle of the graben of the Fisher Basin, i.e. in Bream : 0.60 % P.R., compared with a normal cold evolution in the more cratonic areas (17/11-1 ; 18/11-1).

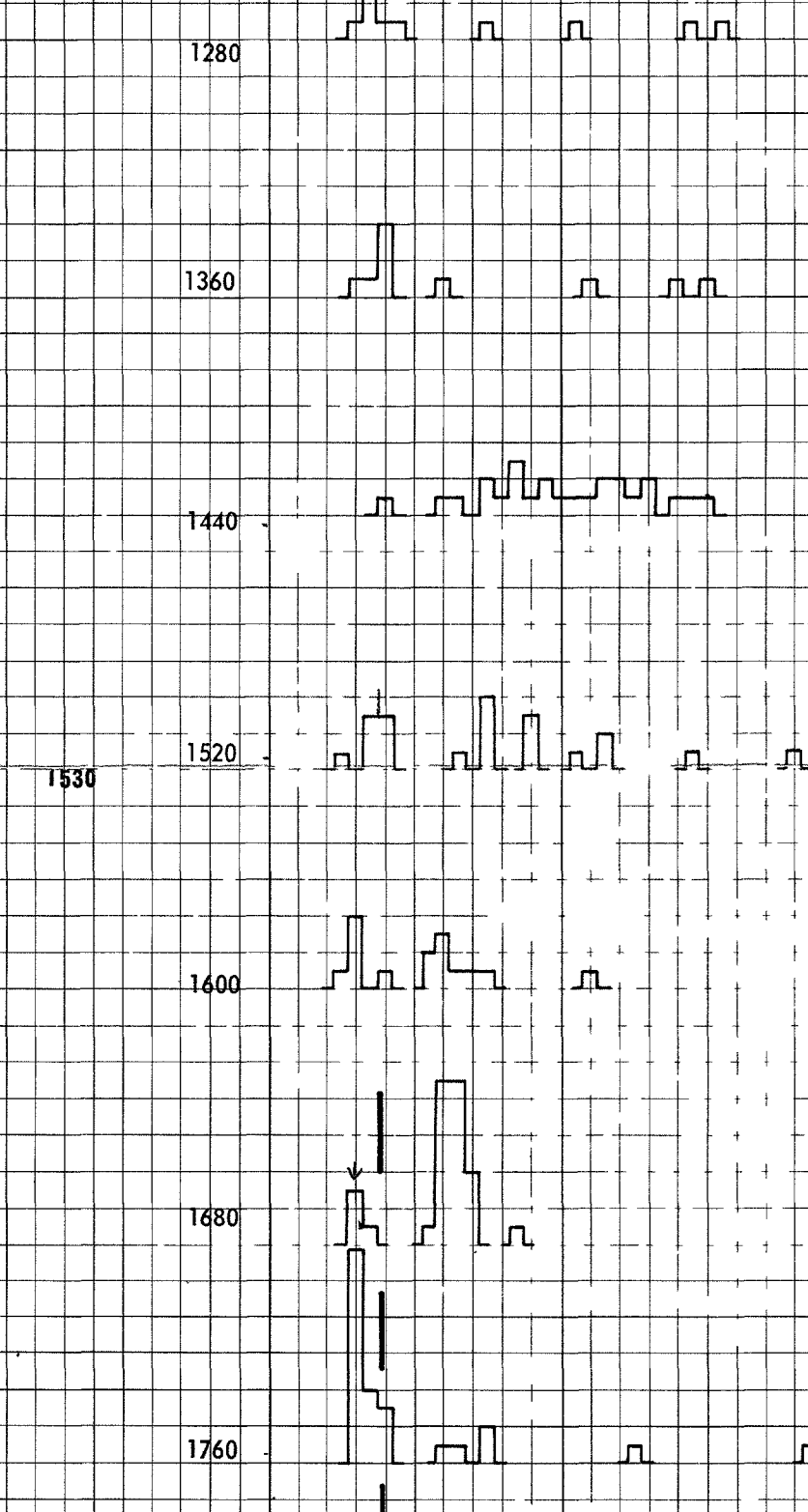
Nevertheless, this result, in the Jurassic section, is not in agreement with the T.A.I. observation in transmitted light (J.F. RAYNAUD : 3-3,5 in the bottom of the hole). This latter result indicates final stages of maturation for oil, about 1 % P.R. The reason for such a discrepancy cannot be explained.

PALEOCENE

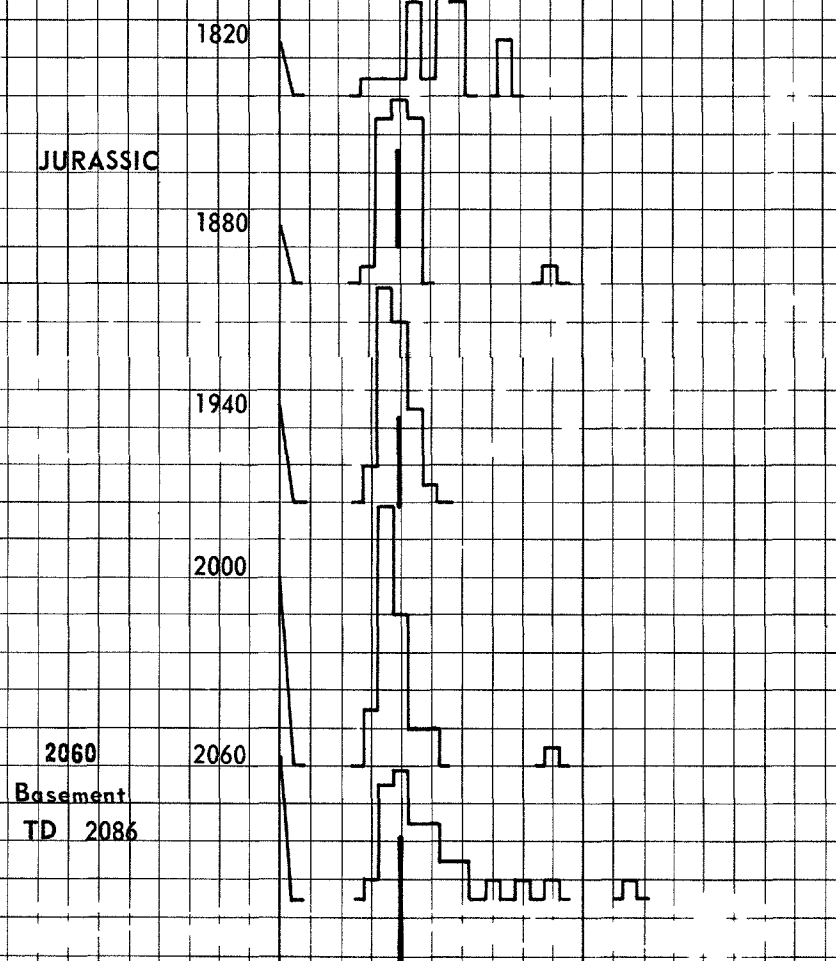
500
METERS



CRETACEOUS



JURASSIC



2060
Basement
TD 2086

T A I

2

to

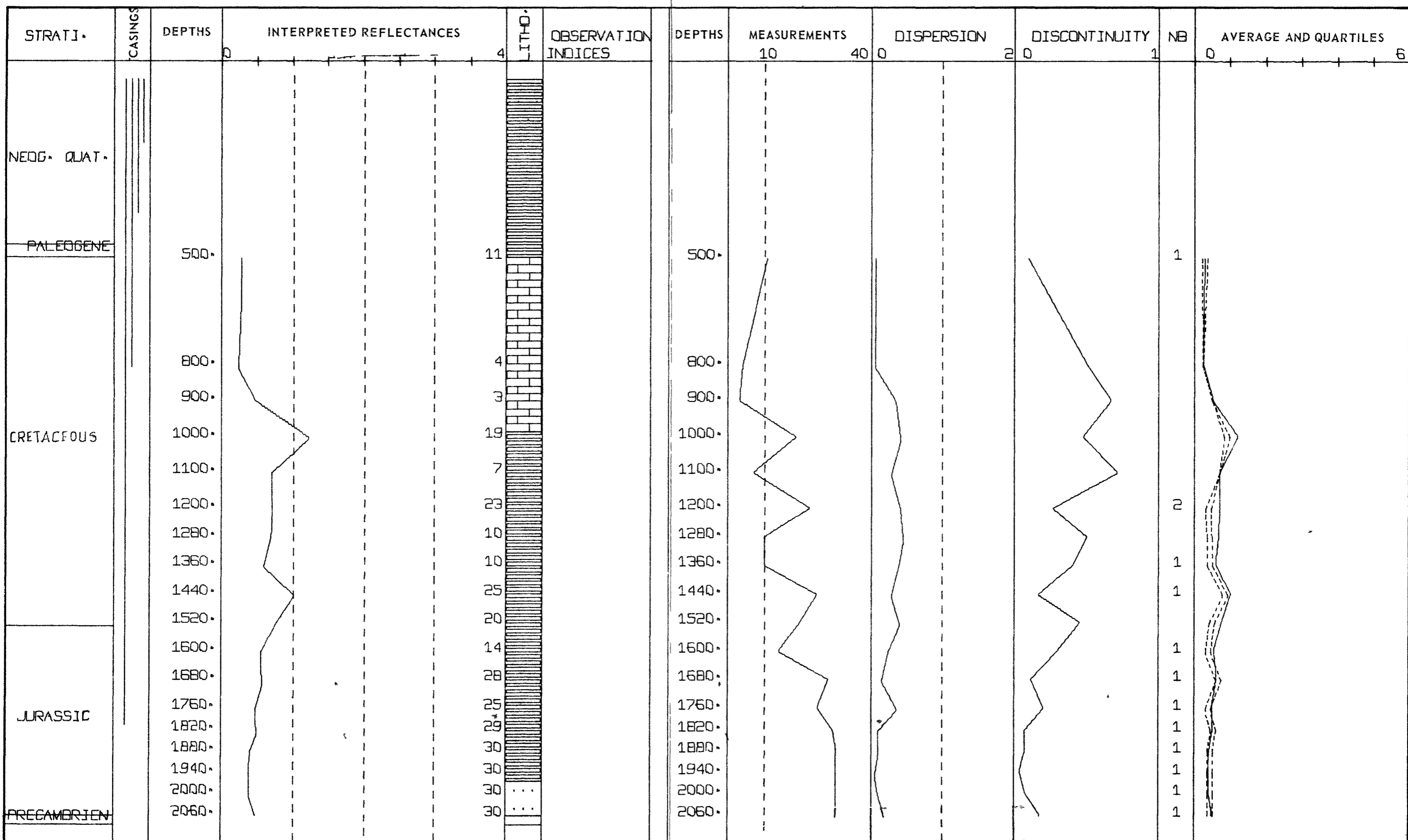
JURASSIC
SHALES
and
SAND

3 - 3,5

2 4 6

□ Coals
▨ Bitumens

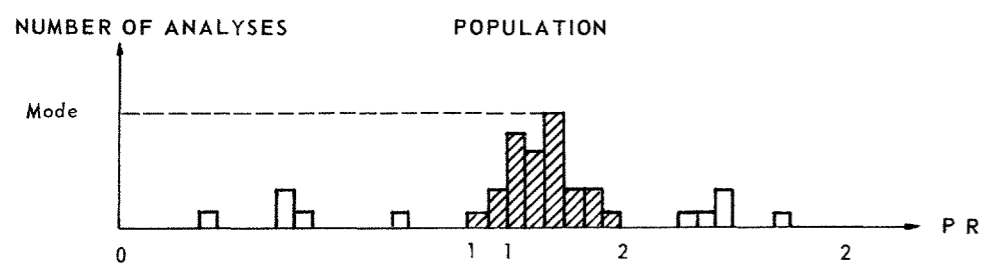
	Secteur	MER DU NORD	
	Opérateur	ELF NORGE	
	Permis ou Concession	Zone Norvegienne	
BRAGE 18/11-1 WELL ORGANIC MATTER REFLECTANCE			
<small>EN ENTREPRISE DE RECHERCHES ET D'ACTIVITES PETROLIERES</small> DIRECTION EXPLORATION LABORATOIRE			Date JULLET 75 PL.1 PROBERT N°classif. C 101



+ Bitumen
 o Vitrinite allochthonous
 * Bitumen allochthonous
 - Derived cuttings

+ Bitumen
 o Oil
 * Gas

STATISTICAL PARAMETERS OF THE REFLECTANCE HISTOGRAMS



Total number of measurements = 33
 Number of measurements taken into account for calculation of the average = 23
 x_1 and x_2 = Limit-values of reflectance of the population
 Number of groups of measurements = 6

For the histogram as a whole

Dispersion = of disparate type reflectance

Discontinuity = number of groups of measurements number of measurements in main group

Number of populations = 1
 Quartiles 25 and 75

For the chief population

Average = average reflectance

Secteur Opérateur Permis de Concession	MER DU NORD	PETRONORD
	ELF NORGE	
Zone Norvegienne		
BRAGE 18/11-1 WELL		
STATISTICAL REPRESENTATION OF THE RESULTS OF ANALYSIS		
Echelle 1/100000		
Soc. ENTREPRISE DE RECHERCHES ET D'ACTIVITES PETROLIERES		Date: JUILLET 75
DIRECTION EXPLORATION		Auteur: Y DAGENS
LABORATOIRE		N° Plan: B 68