### III.4 Fluids and Pressures

An amount of 64 RFTs and 4 FITs have been performed in both Brent and Statfjord formations. The recorded pressures of 19 in the Brent and of 25 in the Statfjord are valuable. The results for each zone are presented on plate 5.

### Brent Formation

Samplings have been performed in four zones (3243,3-3257,8-3267,5and 3286 m). Four recovered only filtrate and mud, the only sample which should be representative of the formation recovered (at 3286 m) 19 liters of filtrate and 56 liters of gas (with 12,5% Cl, 0,4% C2, 0.1% C2, traces of C4). Due to the low gas/water ratio this recovered gas is representative of gas dissolved in water. The formation pressure gradient deduced from the recorded data is about 1.02. According to these data the Brent formation is consequently assumed to be water bearing.

### Statfjord Formation

Several samplings have been performed in some intervals, but mainly in the 3449 - 3471 m interval where electric logs showed hydrocarbon possibilities. Three samplings recovered oil, gas and emulsion.

Test No. 22 at 3563,1 m recovered after 30 minutes:

2 liters of oil d = 0.81 44,5 API 5,5 liters of gas 4,4 liters of emulsion

Test No. 28 at 3563 m recovered after 7 minutes:

2 liters of oil
7 liters of gas
1,5 liters of emulsion

Test No. 38 at 3568,3 m recovered:

0,35 liters of oil 110 liters of gas 2,65 liters of mud and filtrate

Other FITs were also attempted: At 3530,5 m only mud was sampled, at 3561,5 m 10 liters of emulsion of oil, filtrate and mud and 1,5 liters of gas were sampled confirming the hydrocarbon possibilities of the 3559 - 3571 m interval.

From these test results, the log analysis and computations and the fluorescences on some sidewall cores, the Statfjord formation can be devided in the following zones:

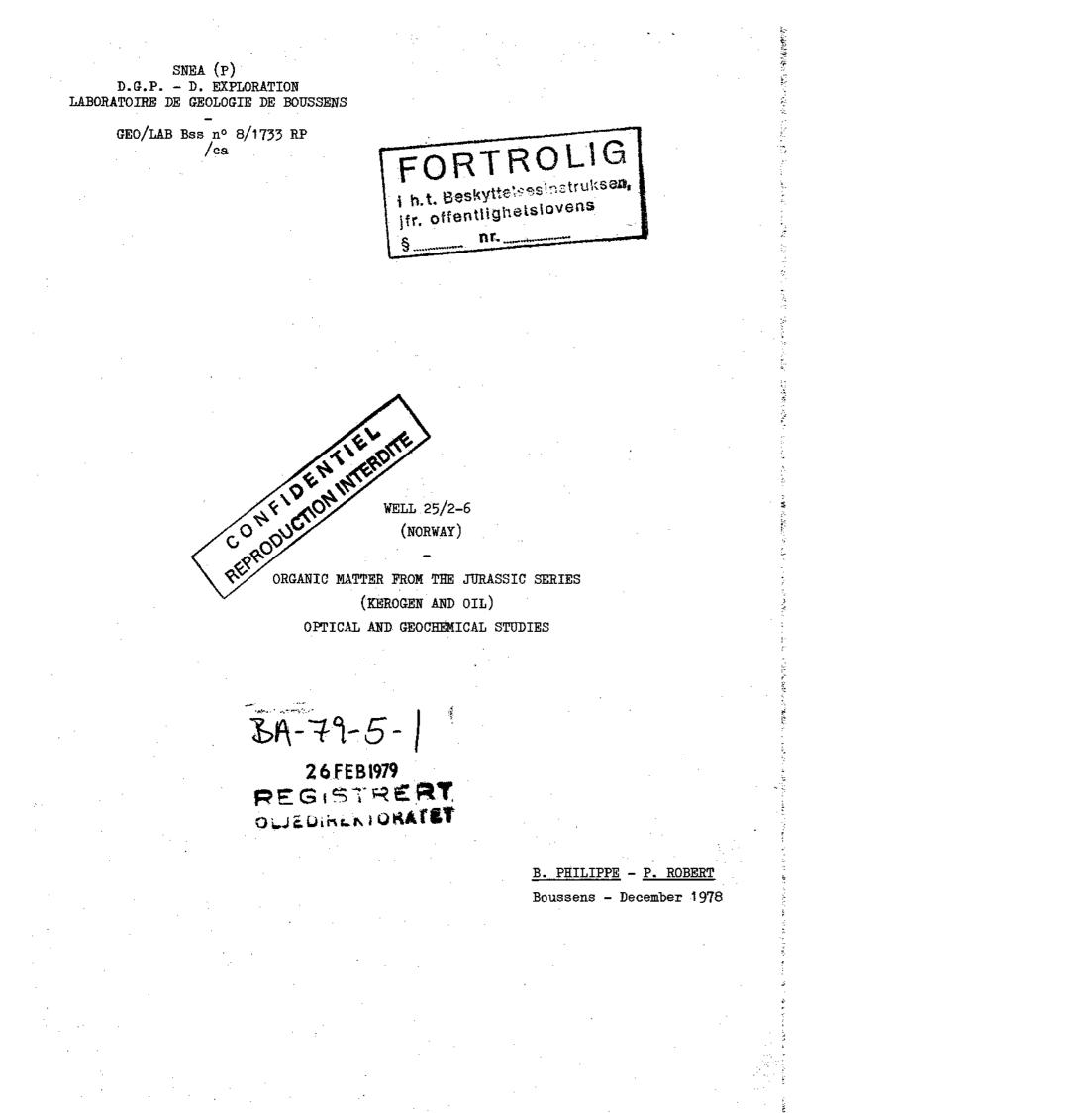
3504 - 3520 m:	water bearing zone
3520 - 3559 m:	residual hydrocarbon zone
3559 - 3571 m:	oil bearing zone
3571 - 3684 m:	water bearing zone

Only some oil analysis results from test 22 at 3563,1 m are actually available. They can be resumed as follows:

specific gravity (at  $15.4^{\circ}$  C) 0.8101 specific gravity (at  $20.4^{\circ}$  C) 0.8042 API gravity 44,5 viscosity at 20° C 2.79 C st 2.24 C po 1.20 degrees e at  $50^{\circ}$  C 1.83 C st 1.42 C po 1.12 degrees e - 34° C pour point total sulphur 0.079%  $H_2S - no$ not measurable

All other samples have been sent to the Elf Boussens laboratory.

The formation pressure gradient deduced from the recorded data is about 1.02.



Reference : Order nº 031153

- J. DUCAZEAUX Report nº 8/1629 RP -"25/2-6 well (Norway) - Palynological study on the Lower Tertiary and the Upper Cretaceous (upper part)".
- R. CUSSEY Report nº 8/1680 RP -"25/2-6 well (Norway) - Sedimentological study of Jurassic deposits".

 P. DURIF, E. GROSDIDIER, J. DUCAZEAUX, J.F. RAYNAUD, P. de RENEVILLE -Report nº 8/1699 RP "Well 25/2-6 (Norway) - Biostratigraphical study of the Mesozoïc -Micropalentology : 2620 to 3750 m Palynology : 3035 to 3750 m".

DISPATCHING LIST	
<u>RECIPIENTS</u> :	
EXPERT REGIONAL EXPLO. EUROPE	1
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ABSTRACT

The Jurassic section studied (3080 - 3520 m) contains two main source-rock intervals :

- the first between 3080 and 3240 m (Portlandian to lower Kimmeridgian), which is immature or just at the beginning of the oil generation zone which has a very high hydrocarbon potential (generally about  $50 \times 10^3 \text{T/Km}2 \times \text{m}$ ); the genetical characteristics of its hydrocarbons vary : type 1 above 3150, type 2 below.
- the second, between 3317 and 3500 (Liassic), which is in the main oil generation zone and has a present hydrocarbon potential strongly reduced by the catagenesis ( $\leq 10 \times 10^3$  T/Km2  $\times$  m); its hydrocarbons are classed in type 2.

The crude oil from 3563 m (RFT nº,22) is non-degraded and has the genetical characteristics of the type 2.



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2.2 - CRUDE OIL	page	4
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Table 1 - Organic inventory.

# PLATES

- Pl. 1 25/2-6 location
- Pl. 2 Organic Matter Study Synthesis of results
- Pl. 3 Organic matter petrology.
- Pl. 4 Hydrogen Index Oxygen Index diagram
- Pl. 5 Pristane/nC17 Phytane/nC18 diagram
- Pl. 6 to 17 Chromatograms of rock samples
- Pl.18 Composition and chromatograms of the crude oil RFT nº 22
- P1.19 25/2-6 crude oil Gross composition, comparison with crude oils previously studied.

This report presents the analytical results of the optical (in reflected light) and geochemical studies of the organic matter from the Jurassic series\* of 25/2-6 (location of this well on Plate 1). It takes into account the results of the optical study in transmitted light on palynological slides.

All these results are summarized on Plate 2 : "Organic Matter Study. Synthesis of results".

### 1 - OPTICAL STUDIES OF THE ORGANIC MATTER

### 1.1 - OPTICAL STUDY IN TRANSMITTED LIGHT

The analytical results are included in the biostratigraphical report\*\*and are summarized on Plate 2.

#### 1.1.1 - Palynofacies

The organic facies observed on the palynological slides are primarily made up of :

- amorphous matter between 3080 and 3150 ;

- amorphous matter (>50 %) and ligneous particles between 3150 and 3190 m;

- coaly-ligneous particles between 3190 and 3220 m ;

- amorphous matter between 3220 and 3240 m ;

- coaly and ligneous particles between 3240 m and the well bottom at 3750m.

### 1.1.2 - <u>T.A.I.</u>

The thermal alteration indices estimated are :

2.5	at	3100	
3	at	3215	
2.5+-3	at	3350	
3-3.5	at	3512	
· 3.5-3.5 <sup>+</sup>	$\mathbf{at}$	3750	
		· ·	

.../...

\* apart from one sample of Cretaceous, in reflected light. \*\* previously cited.

#### 1.2 - OPTICAL STUDY IN REFLECTED LIGHT

The optical analysis of organic matter was performed between 2550 m and 3518,30 m (Upper Cretaceous to Sinemurian) on 16 samples.

Among the 14 core or SWC samples, 11 have been polished in full rock sections, without concentration, and 3 have been concentrated by means of a gravity method. Only 2 cutting samples, from the Toarcian, have been used, after concentration.

The analytical results are given on Plate 3 and summarized on Plate 2.

#### 1.2.1 - <u>Nature of organic matter</u>

#### Cretaceous

Only 1 sample studied, at 2550 m, consists of coaly particles and reddish fluorescent associated rock (only humic).

#### Jurassic

. At  $\frac{43100 \text{ m}}{3100 \text{ m}}$  (Upper Kimmeridgian) sapropelic rock, highly fluorescent (global index 3 in a scale from 0 to 5) with abundant marine algae, containing frequent bitumen inclusions and bituminous organisms.

Completely devoid of coaly (humic) material.

. The <u>rest of the section</u> is essentially made up of humic (terrestrial) material with rare algae (mostly lacustrine botryococcus).

Sporinite - rich rock, with a humic fluorescent facies appears from 3159.9 - 3164.10 - 3195 (Malm), 3256 to 3284 (Dogger). Bitumen and/or gelinite inclusions are abundant in the Dogger - Lias.

Pure massive coal has been observed at 3284 m and fragments in the Toarcian concentrates.

Oil veinlets are frequent in the whole section and frequent exsudatinite confirms oil generation by main macerals.

### 1.2.2 - <u>Reflectance</u>

dailing R-date

Fair reliable vitrinite is not very frequent in the studied section.

In the Dogger zone, bitumen and gelinite reflectance is continuous with 0.55 % values : the fluorescence coulours of algae suggest slightly higher values such as 0.60 to 0.65 %. This under-estimation, common with bitumen, may be due, for vitrinite, to its high oil content or to its nature of vitrinite "B" or "desmocollinite" (ICCP lexicon).

Taking into account the isolated, but probably reliable result in the Cretaceous, the vitrinite reflectance increase - or equivalent - can be summarized in the whole section as follows,

Age	Depth	Ro
U. Cretaceous	2550 m	0.5 %
U. Kimmeridgian	3100 m	0.5 % (eq. algae)
Dogger	3250 m	0.6 - 0.65 (partly d°)
	3280	
Toarcian	3350	0.75 %
Sinemurian	3515	0.9 - 0.95 % ?
		/

2 - GEOCHEMICAL STUDY

### 2.1 - SHALY AND COALY ROCK SAMPLES

All the analyses were carried out on core or sidewall core samples between 3093 and 3518 m. The analytical results of the organic inventory are given in table 1 and summarized on Plate 2. For the pyrolyses, the hydrogen index (IH) and the oxygen index (IO), which give data on the present petroleum quality, are plotted on a diagram (Plate 4).

The constitutions of the organic matter extracted by chloroform and the chromatographies of the thermovaporised and saturated fractions were carried out on a few selected samples (see the samples analysed on table 1); these chromatograms and the constitutions are given on plates 6 to 17. The Pristane/nC17 and Phytane/nC18 ratios, measured on the chromatograms of the saturated fractions, are plotted on a diagram (Plate 5).

The main results are presented below for each gross lithological interval and/ or formation.

# - Shale interval between 3080 m and 3240 m (Portlandian to Callovo-Oxfordian)

The total organic carbon contents are high : generally between 5 and 7 %, apart from one sample (3.3 at 3195 m) the pyrolysis results show that the petroleum quality of the kerogen is very good (IH\* >400 ; IO  $\leq$  15) for 5 samples between 3105 and 3185 m, and so probably in the whole Portlandian to lower Kimmeridgian section, i.e. between about 3080 and 3190 m ; the petroleum quality of the kerogen is mediocre (IH  $\simeq$ 135 ; IO  $\simeq$  15) at 3195 m. The petroleum quality of the kerogen from the 3220 - 3240 m has not been studied.

The average present hydrocarbon potential of the 3080 - 3190 m interval is high, about  $50 \times 10^3$  T/Km2  $\times$  m; that of the 3190 - 3220 m interval is low, about  $10 \times 10^3$  T/Km2  $\times$  m. According to the high total organic carbon contents and in view of the palynofacies the average present hydrocarbon potential of the 3220 - 3240 m interval is presumably high.

The genetical characteristics of the hydrocarbons vary, in particular the pristane/phytane ratio (see Plate 5) and the distribution of the n-alkanes. Above 3150 m (Portlandian to upper Kimmeridgian) in two samples the phytane prevails over the pristane and the even-numbered n-alkanes prevail over the odd-numbered n-alkanes (type 1); below 3150 m, lower Kimmeridgian to Callovo-Oxfordian, in three samples it is the opposite (type 2).

The catagenetical chracteristics of these hydrocarbons, in particular the pristane/nC17 and phytane/nC18 ratios and the n-alkane distributions indicate a low maturation.

..../...

\* IH = Hydrogen index (mg HC/gC) ; see Plate 4

IO = Oxygen index (mg CO2/gC); see Plate 4

## - Brent Sands formation, between 3240 and 3317 m (Dogger)

This sandstony formation contains a few shaly beds, rich in organic matter, and coal beds.

The petroleum quality of the kerogen from the shaly and coaly beds is rather good to good (240  $\langle$  IH  $\langle$  420). The average present hydrocarbon potential of the shales and of the coals is very high, about 100 and 500  $\times$  10<sup>2</sup>.Tons/Km2  $\times$  m respectively, but their thickness is very weak. The genetical characteristics of the hydrocarbons from the shales and the coals are quite close ; their main characteristics are the very high predominance of the pristane over the phytane, the abundance of the n-alkanes having a high molecular weight and the predominance of the odd-numbered n-alkanes. The catagenetical characteristics of these hydrocarbons indicate a low maturation (at a maximum at the beginning of the oil generation zone).

#### - Dunlin Shale formation, between 3317 and 3504 m (Lias)

The total organic carbon contents are relatively high to medium : 1.3 to 2.5 above about 3420, and about 0.9 below this depth. The present petroleum quality of the kerogen is mediocre to relatively good (50  $\langle$  IH  $\langle$  240 ; 35  $\langle$  IO  $\langle$  50). The average present hydrocarbon potential is low, lower than 10  $\times$  10<sup>3</sup> Tons/Km2  $\times$  m between 3317 and 3420 m, and lower than  $5 \times 10^3$  T/Km2  $\times$  m between 3420 and 3504 m.

The genetical characteristics of the hydrocarbons from two samples of this formation are quite close and make it possible to class then in type 2. Their catagenetical characteristics show a slightly higher maturation than above (beginning of the main oil generation zone ?).

#### Statfjord Sand formation, between 3500 and 3700 m(Liassic)

This formation contains a few shaly beds ; only three shaly samples from core 4 (between 3510.5 and 3518.5 m) were analysed.

The total organic carbon contents are between 0.85 and 3.1 %. The present petroleum quality of the kerogen is mediocre to relatively good (40 < IH < 200; 35 > I0 > 10).

The genetical characteristics of one sample are quite close to those of the samples from the Dunlin shale formation (type 2). Its catagenetical characteristics suggest a maturation compatible with the main oil generation zone; according to this fact, the initial hydrocarbon potential was higher.

According to the knowledge of the geochemical-sedimentological setting of this region, it is presumable that the thicker shaly beds (not studied) had at a minimum the same initial hydrocarbon potential as the Dunlin shale Formation.

### 2.2 - CRUDE OIL

The crude oil analysed corresponds to the RFT n° 22 from 3563.1 m, in Statfjord Sand formation. Its gross composition and chromatograms are on plate 18; its gross composition is plotted on a triangular diagram (Pl. 19) with the composition of the crude oils from Norwegian Sea, previously studied. This oil is non degraded. It correlates with the crude oils from this region, especially the oils from 25/2-5 and 25/2-4; it is also classed in type 2.

CONCLUSIONS 3 -

The state of maturation of the organic matter is low just at the beginning of the oil generation zone, in the upper part of the Jurassic section. It reaches the main oil generation zone in the Liassic.  $e_{s} < 0.75\%$ 

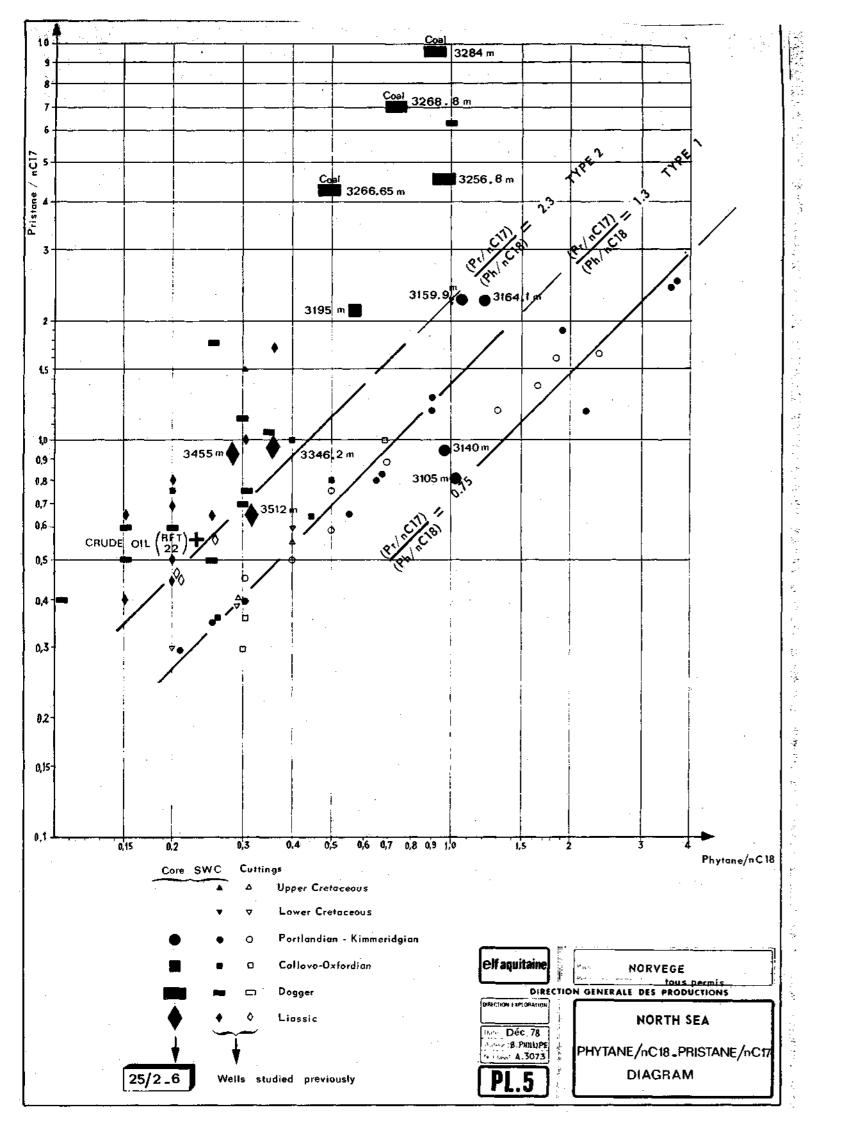
The shales of the Portlandian to Callovo-Oxfordian, between 3080 and 3240 m, are rich in kerogen (COT  $\simeq$  5-7 %) of a very good petroleum quality, at least above 3190 m. The present, almost initial, hydrocarbon potential is about 50  $\times$  10<sup>3</sup> Tons/Km2  $\times$  m above 3190 m and between 10 and 50  $\times$  10<sup>3</sup> Tons/Km2  $\times$  m below this depth. Their hydrocarbons are classed in type 1 above 3150 and in type 2 below.

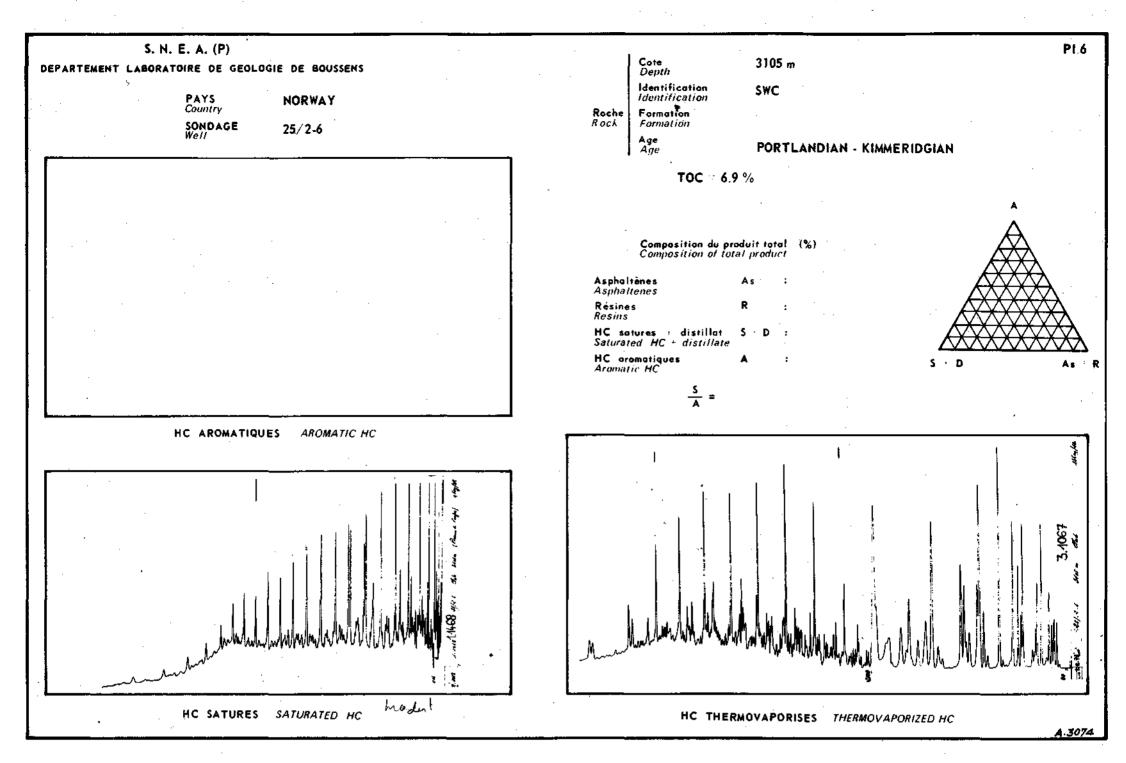
The kerogen of the shaly and coaly beds of the Brent Sand formation, Dogger (between 3240 and 3317 m) is of a good petroleum quality ; the present, almost initial, hydrocarbon potentials of these very thin beds are about 100 and  $500 \times 10^3$  Tons/Km2  $\times$  m respectively. Their hydrocarbons are classed in type 2.

The shales of the Dunlin Shale formation, Liassic (between 3317 - 3500 m), and the shaly beds of the upper part of Statfjord Sand formation, are relatively rich in kerogen ( $COT \simeq 1 - 3\%$ ) of a mediocre petroleum quality; their present hydrocarbon potential, lower than the initial potential, is lower than  $10 \times 10^3$  Tons/Km2  $\times$  m. Their hydrocarbons are classed in type 2.

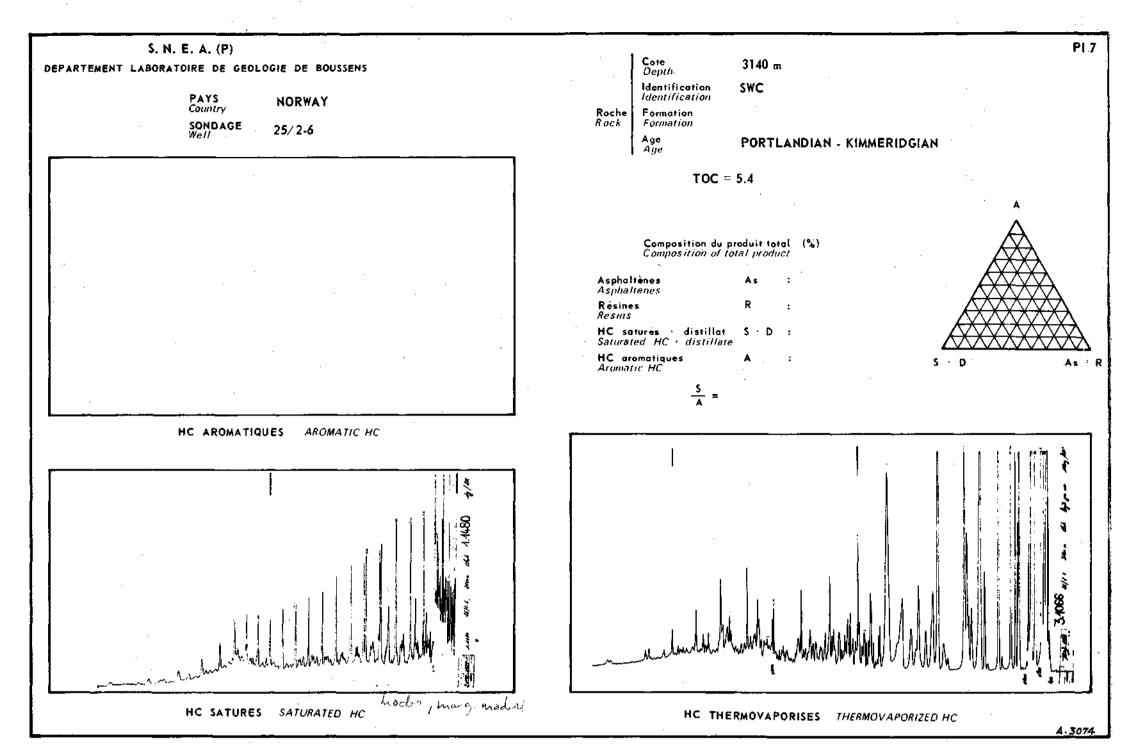
The crude oil from the Statfjord Sand Formation (RFT n<sup>o</sup> 22 at 3563 m) is non degraded and correlates with the other crude oils from this region ; it has the genetical characteristics of the type 2.

25/2-6. Tilpasning Dar barmefluks og /3. Forsøk 2 belgir: Varmefluks = konst 260 mW/m² Bathon exclud Lehk 156 MA - 1556 165 IGS to riftfasce Begynner på T. Brent-gr. B60 = 1.15 (56-) Voldsom hefoning i midt-hittopen sjekk om input-dataen e riktige. Fa OK Seit menlikning an modning for 60 MW/m² (forsak I sytt) med rel modning Portland Kim Rel bratil pashing hoe for hog Brent - gri : Bra tilpasning, hve for lat ? Valg av strehningsfaktore ut untak for huidtkrik og pore tetsær (må velge storre p. her)

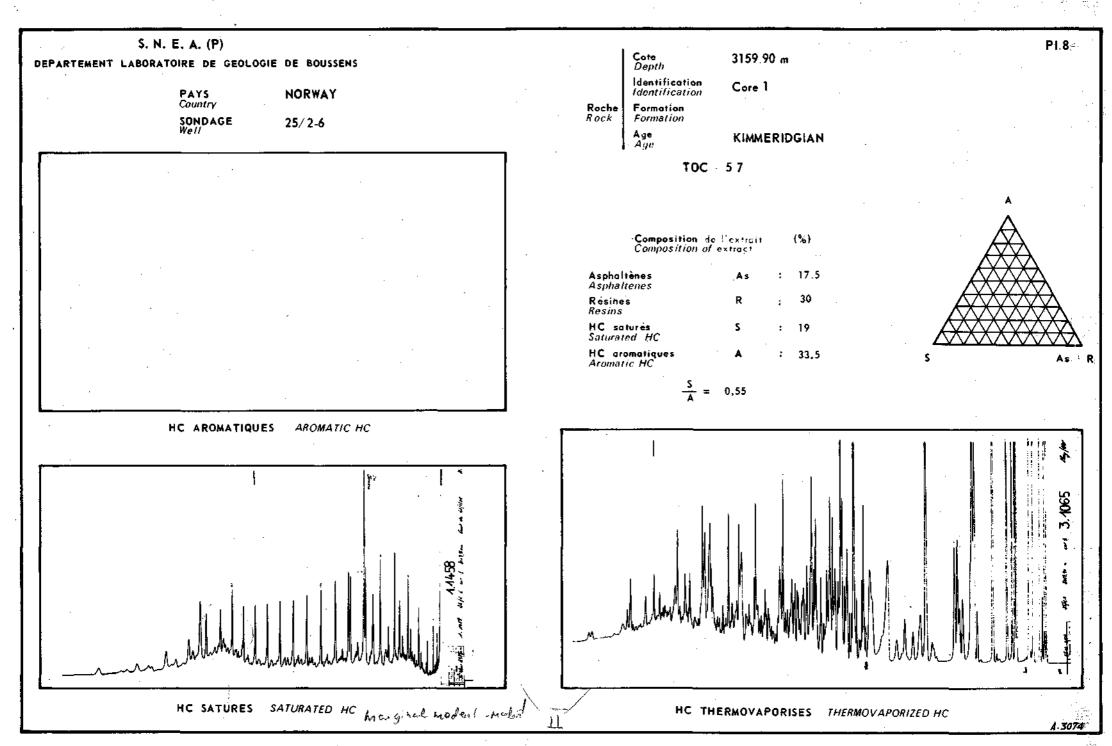


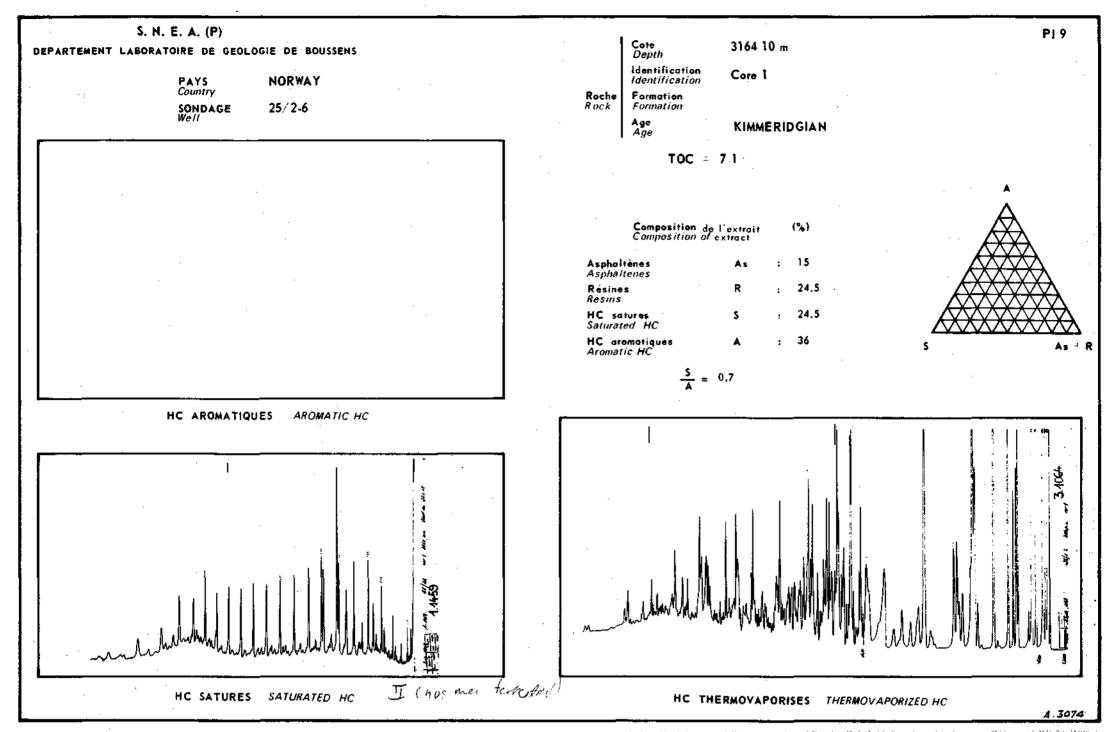


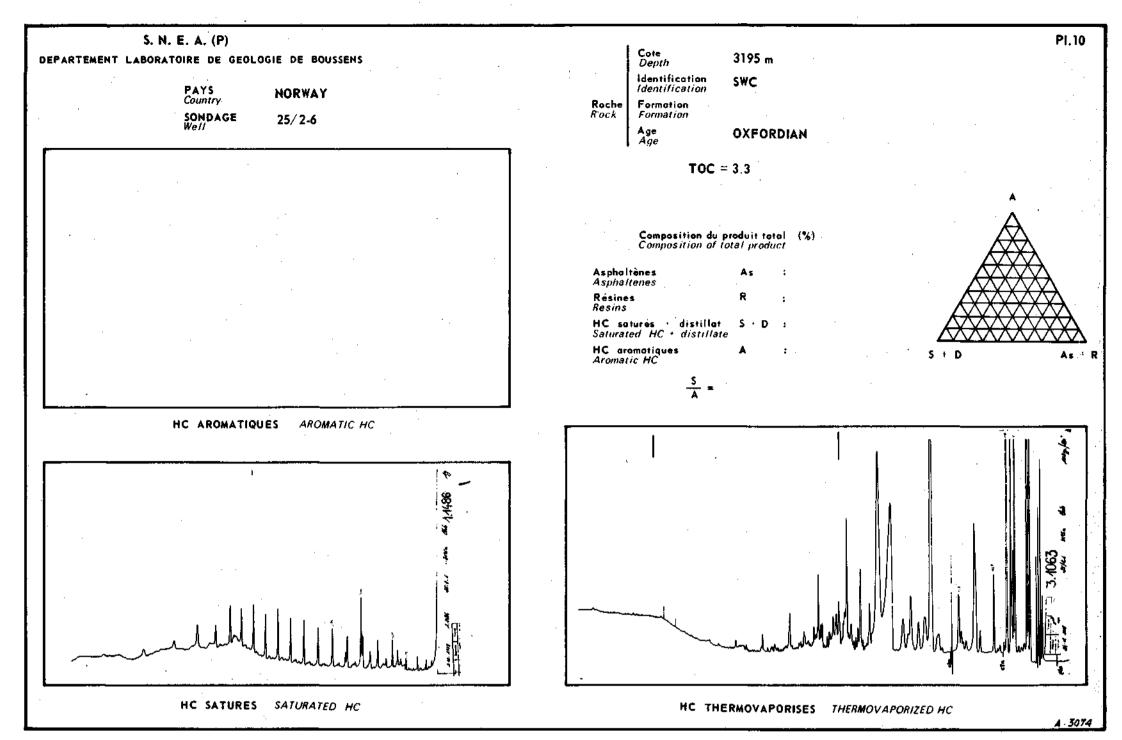
ーンション・ションのないが、クリビアになったができたが、このためは構成、目的ないようにあったが、Parental になっては、Parental になっていた。第三人の人間のでは、Aline は、国際の学校構成



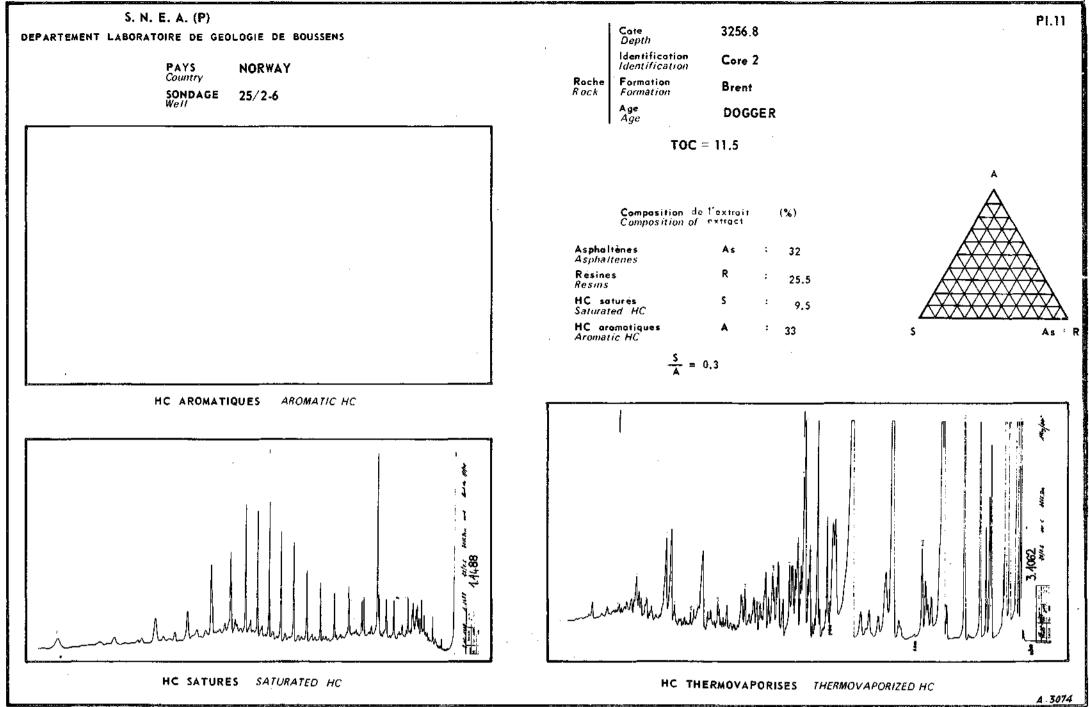
,我们也是我们在我们的,我们还没有了了,我们还是我们的,我们就是你们就是你们的,你们就是我们我们让你的,你能是你是你的?""你们不是你的你<sub>们还是</sub>我们,不是你不管你的**没想** 

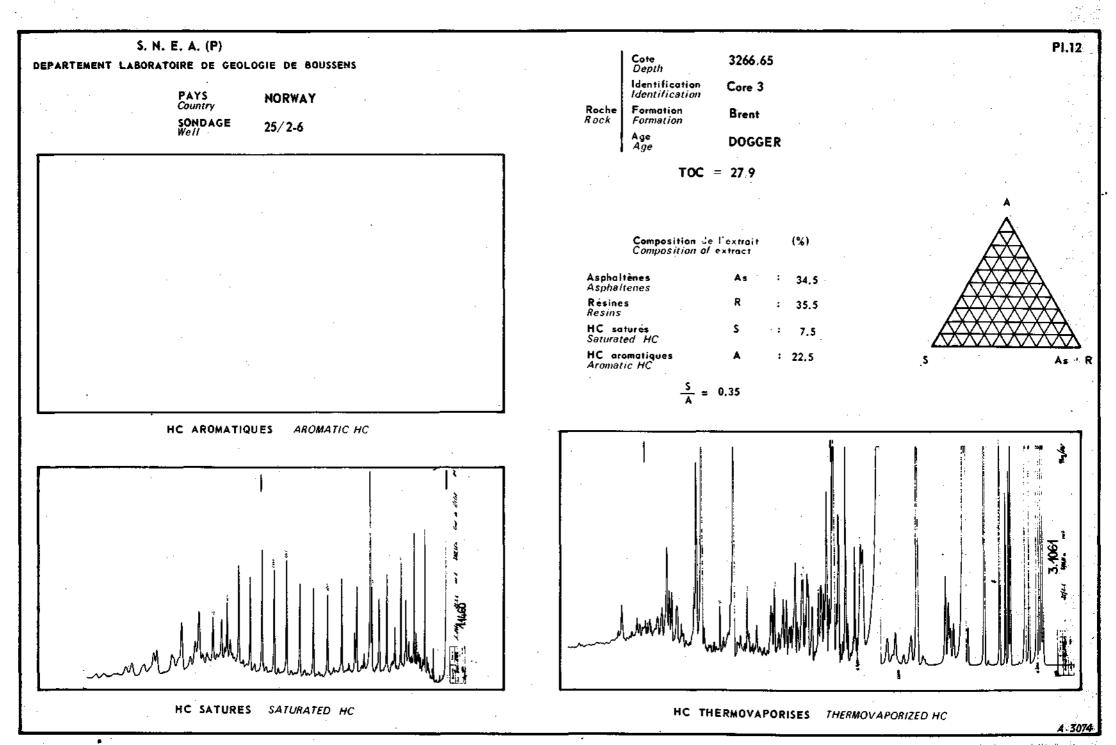


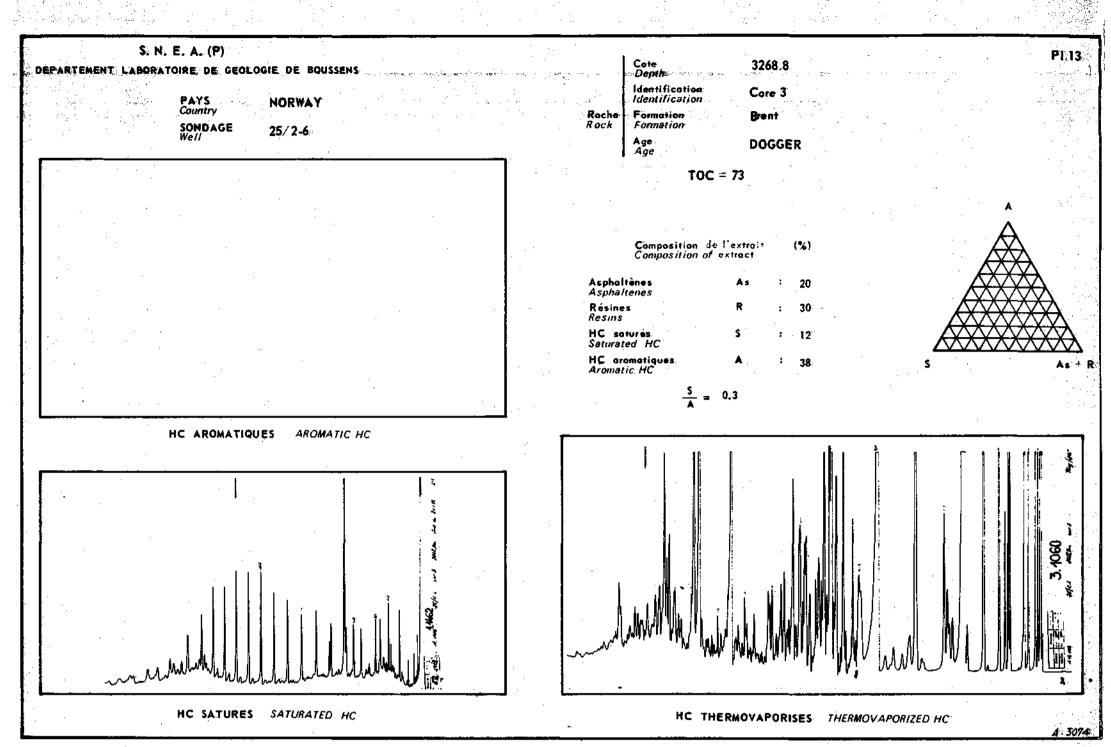




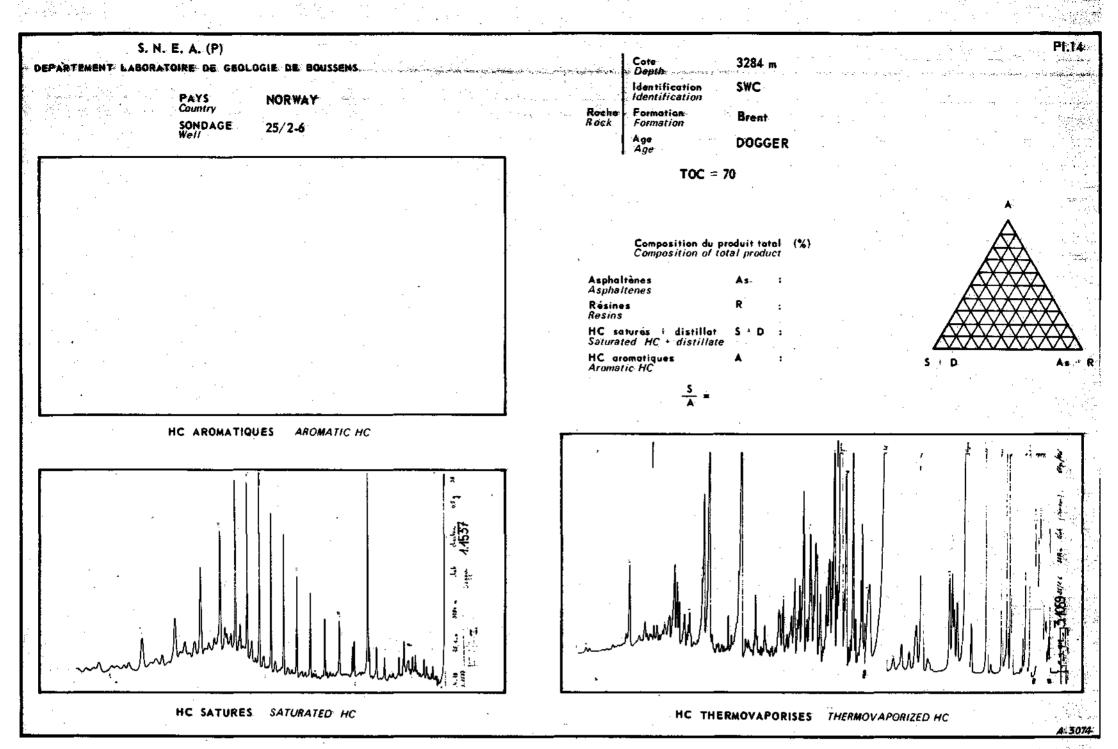
,这些人,就是你是你就是你们就不能。"你你你的你们是这种说道,我们就是<mark>我</mark>是你是你们是你的你们的我们就是你的爱好。我们是你们就是你说是你们的你们,你们就是你的人,你们能是我们就是我<mark>没想</mark>能能能。





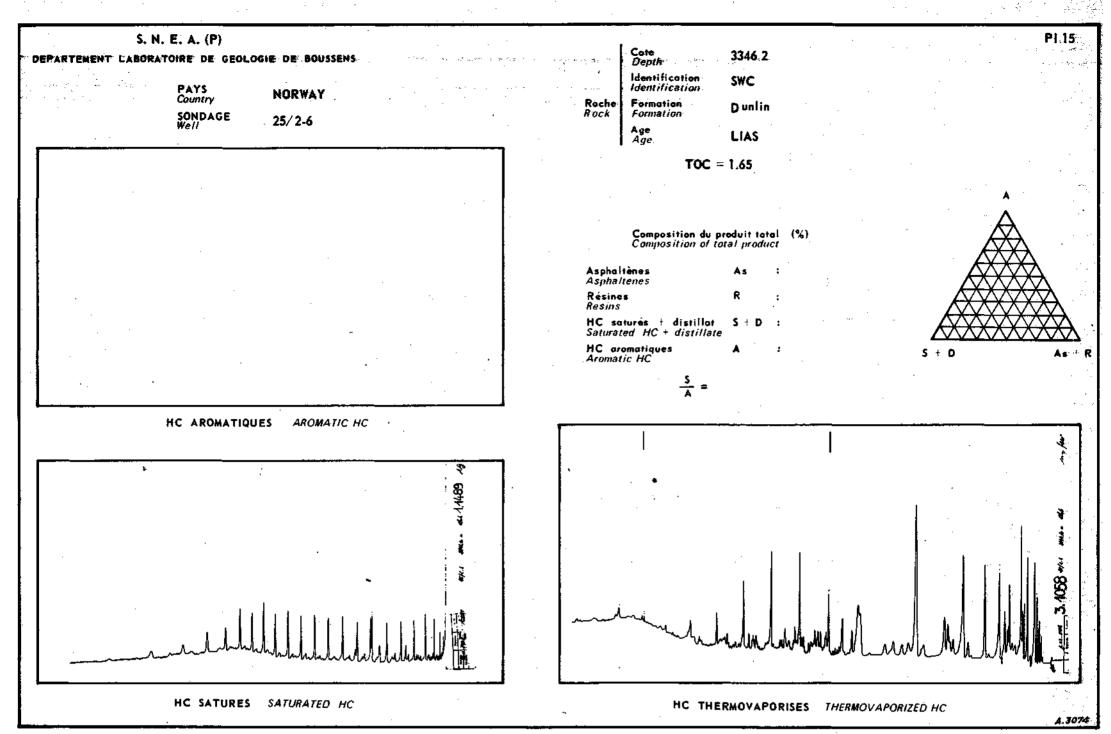


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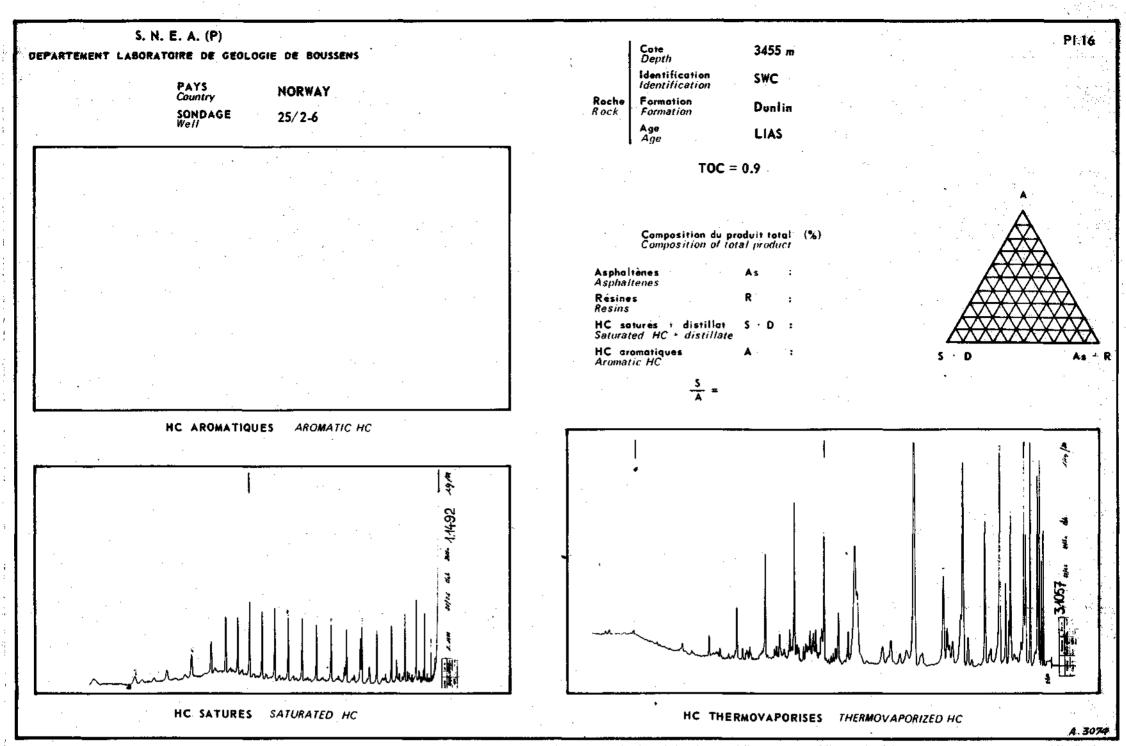


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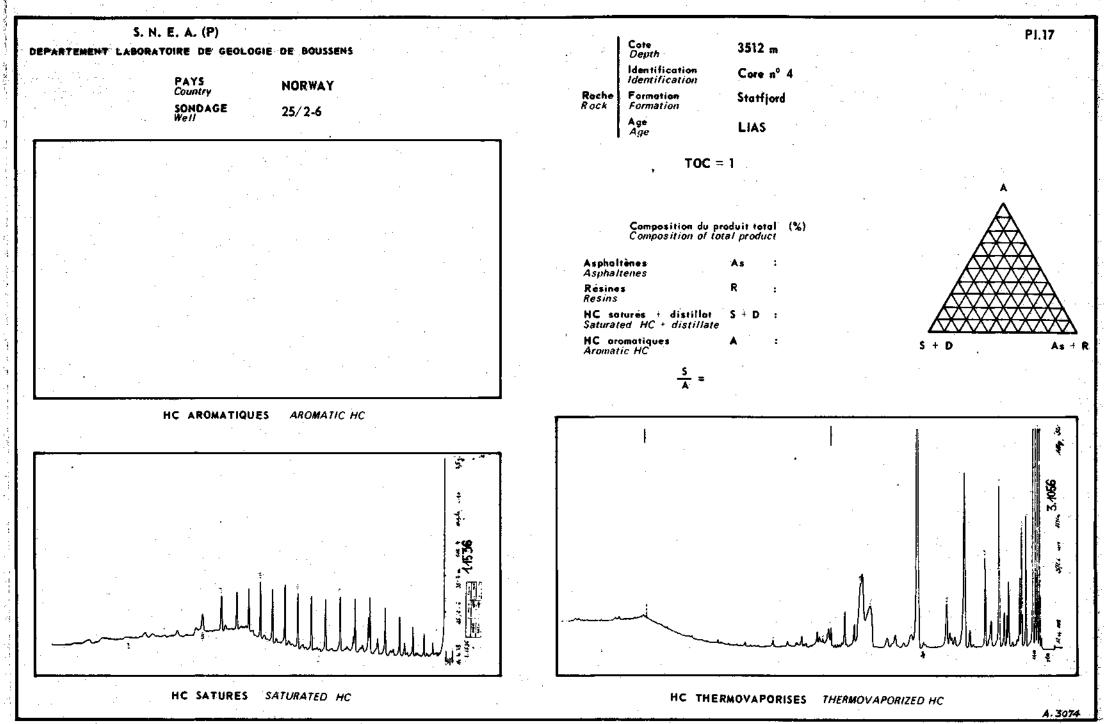
,是这些人,我们一家你们也没有这些你的你的,你就你能做你,你你能帮你你,你你你都你就是你你啊!"你是你说了,我是你们的人来。"你,你不能你你的,就是我们们们还没有能能<mark>能</mark>能



化学品 医尿道 的复数法 化化合金 化合物化合金化合物 化合物化离离 使优化离离 法规则部分 医水杨酮 计操作分子计划 化离子输出 医口腔 人名法布尔 法法法 计可以通信 医子宫膜炎 建磷酸盐

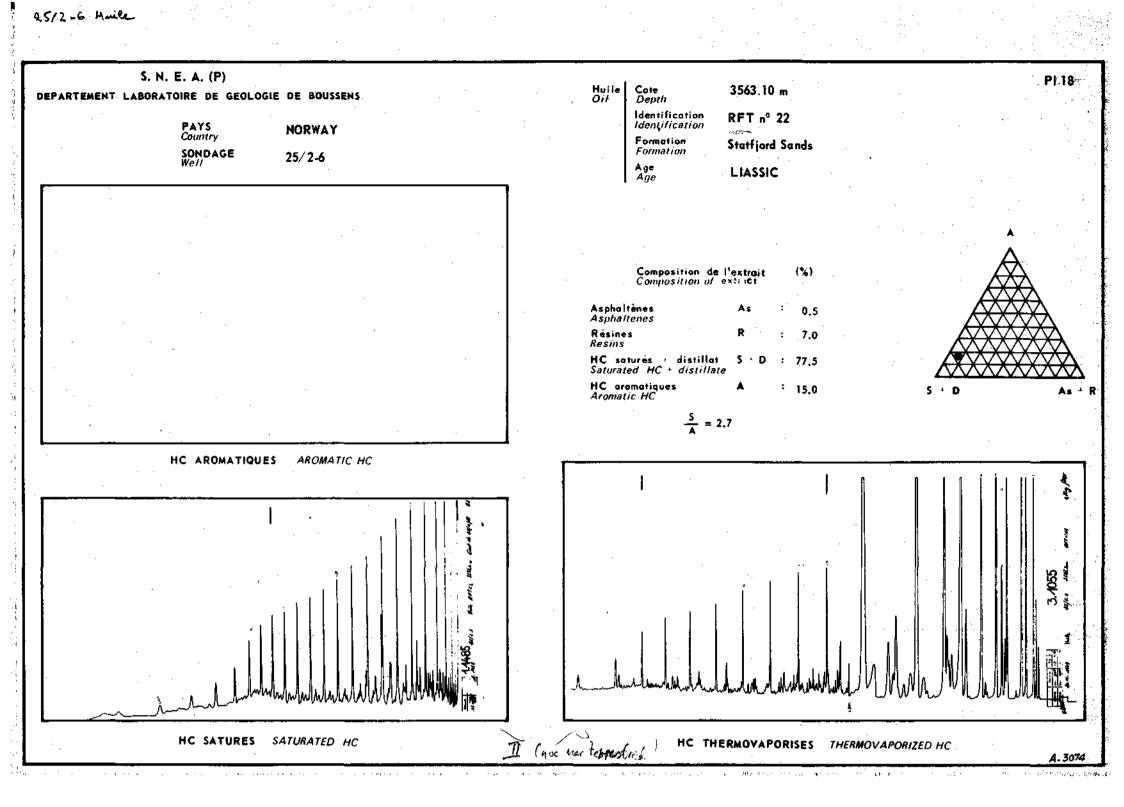


,这是这个人来到了这个教师,你还是这个人的情况的,你们是我们是你们是我们也不是我们也不是你说了,我们是我们的人来到了你,我们们是不是你的人们,我们还是我不能能<mark>没有能</mark>能能

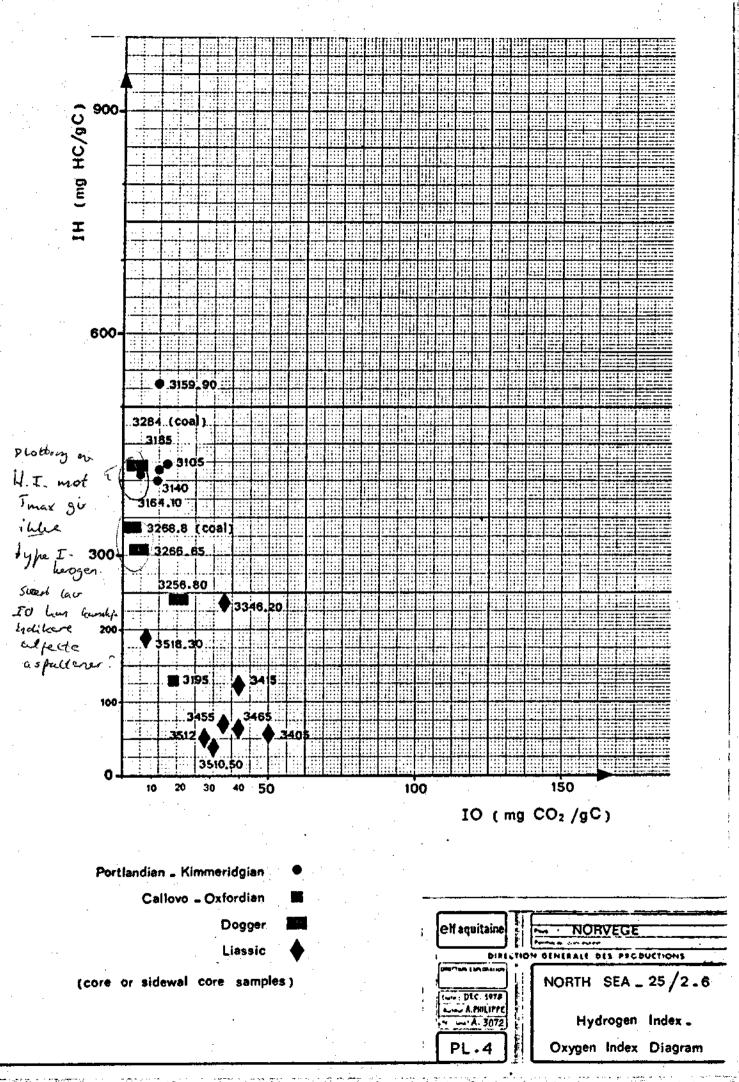


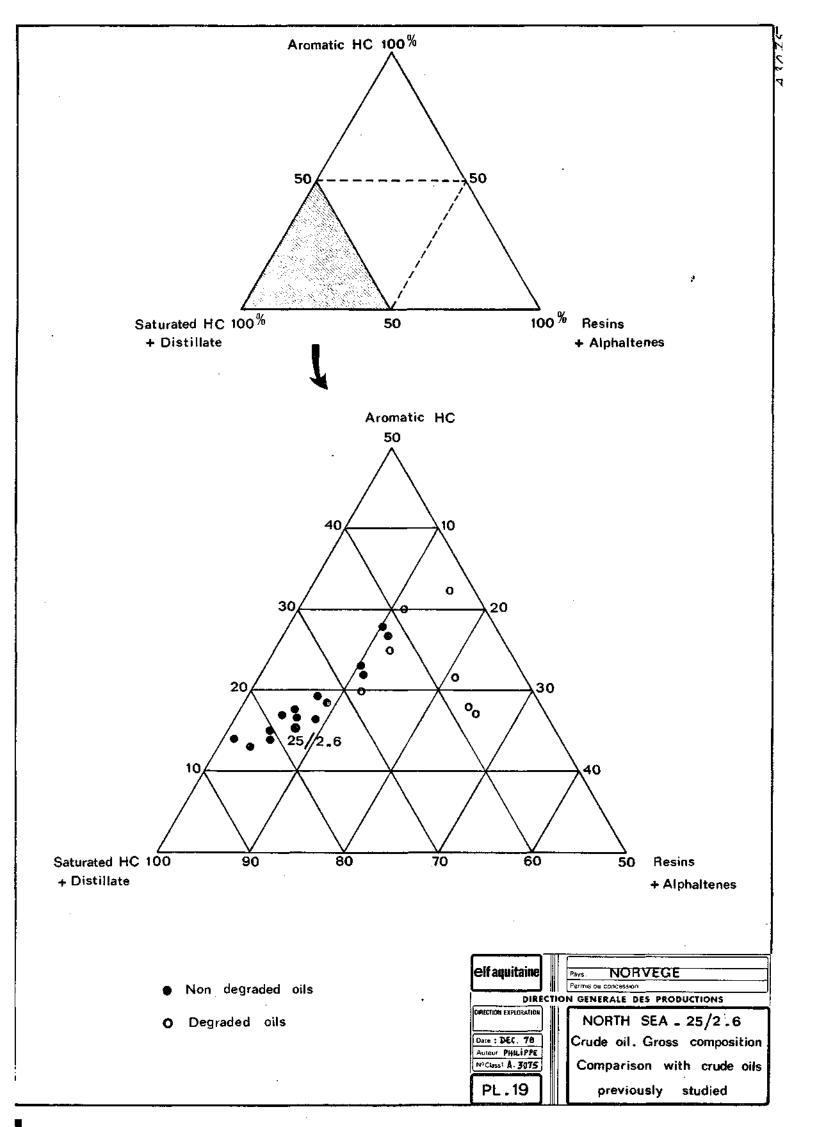
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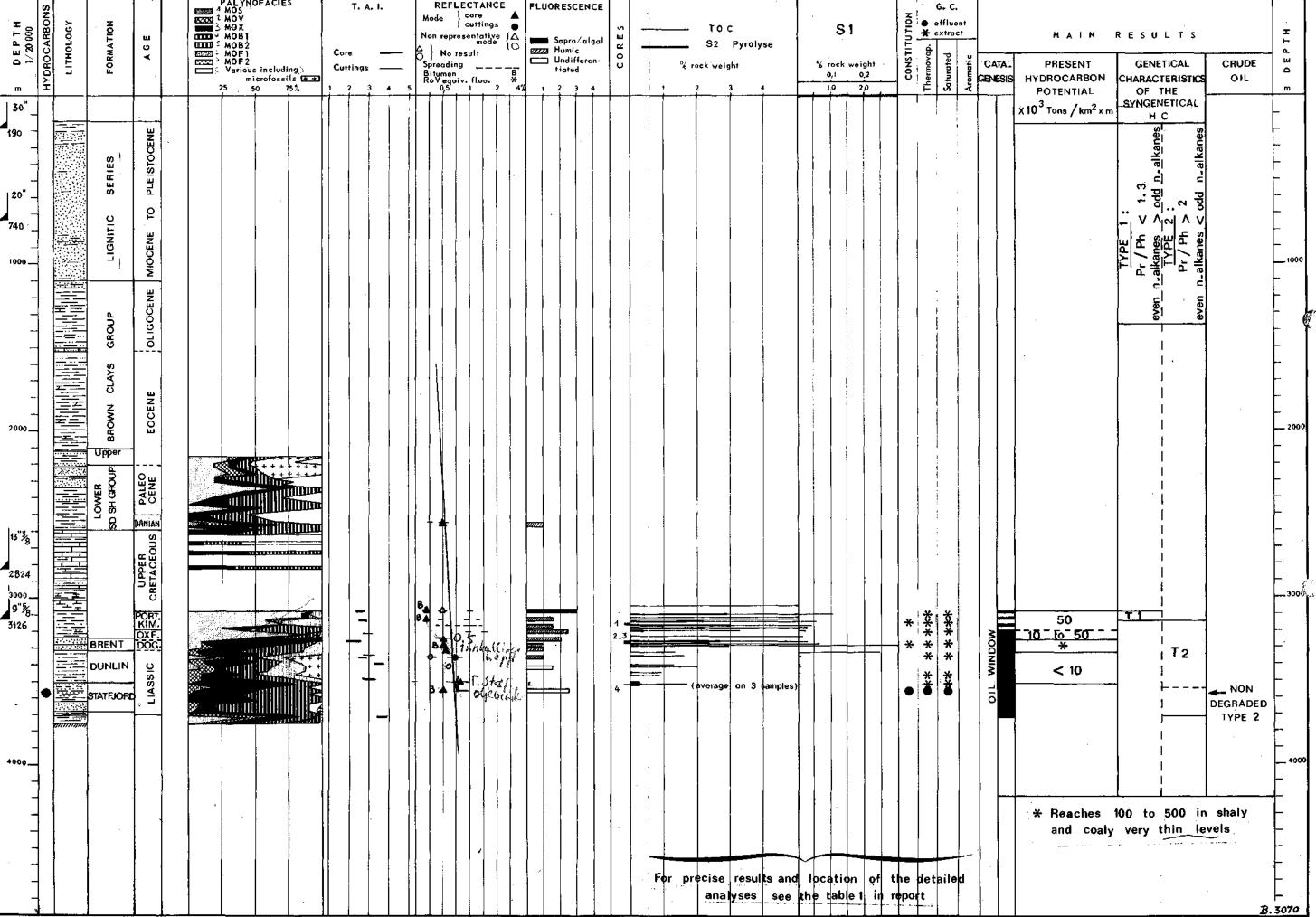


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	SAMPLE	тос	100	EOM	EOM/ TOC	51		<b>R О С К</b> 52	- EVAL S3	+		TUTK	RMO-	OF
	IDENTIFICATION	 100 mgR	<u>mgC</u> 100 mgR	mgHC 100 mgR	<u>mgHC</u> 100 mgC	mg HC g Rock	mg HC g Rock		mgCO <sub>2</sub> 10 gTOC	· · · ·	$\frac{51}{51+52}$	CONSTITUTION	THERMO-	G.C. OF SATURATES
<b>9</b> .	3093 m SWC	6.2								-1 1944-4				
:	3105 m d°	6.9				10.	29	420	15	427	0.26		+	+
	3122 m d°	6.65												
	3128 m d°	6.8												
	3140 m d°	5.4				5.	22	405	10	427	0.19	:	+	+
	3159,90 C1	(5.7)	5,35	0.41	7.2	4.	31	540	10	?	0.12	+	+	+
	3164.10 C1	(7.1)	6.8	0,35	5.	3.	29	410	5	429	.0.10	+	+	+
	3185 m <sup>-</sup> SWC	5,4				1.5	22	415	10	<b>431</b> √ ∣	0.07			
	3195 m d°	3.3				0.5	.4	135	20	434	0.08		+	+
	3225 m d°	6.3												
	3232.50 d°	5.2												-
	3256.80 C2	11.5	9.5	0.19	2	3.	27	240	20	438	0.10	+	+	+
Å,	3266.65 C3	27.9	27.5	0.57	2	6.5	86	310	5	439	0.07	+	+	+
,	(3268.80 <b>*</b> c3)	(73.0)	69.7			42	247	340	≪5	390	0.15		+	+
Amoin	3284 m SWC	70.0	i			24.5	2 <b>9</b> 5	420	5	410å435	0.07		+	.+
<b>'</b>	3325 m SWC	1.35												
N.	3346.2 d°	1.65				1.	4	240	35	441	0.18		+	+
14	3405 m d°	1.3				0.5	<1	60	50	?	0.36			
Viele Burton for	3415 m d°	2,5				1	3	120	40	438	0.23	:		
1946	3445 m d°	0.95											:	
ا ف	3455 m d°	0.9				0.5	<1	70	35	444	0.33	ļ	+	+
	3465 m d°	0.9				0.5	<1	70	40	?	. 0.40			
\$ 15CK 10	3510.50 C4	0.85		:		≪0.5	<1	<u>,</u> 40	35	449	0.40			
52	3512 m C4	1.0				≪0.5	<1	55	30	449	0.24		+	+
د ا	3518.30 C4	3.1		-		0.5	6	180	10	440	0.07			
	* 3268.8		sample m relatively		le of bitun	nen and/	or gelinite	veinlets	(cf. P1.3);	note it:	s very low	/ \$3 (	and	
					arbon ; the	e values i	in bracket	s are calc	: ulated					•
		10C ···			insoluble									
		ЕОМ * НС **	Organic Hydroco		extracted	by chloro	torm							
		Tm =		ature at t	op of 52									





SNEA (P) DEPARTEMENT LABORATOIRE DE BOUSSENS		ORGANIC N Synthesis	ATTER STUD 5 OF RESULTS	)Υ · · ·	
DEPTH 1/20000 HVDROCARBONS LITHOLOGY FORMATION AGE	PALYNOFACIES MOS MOS MOS MOS MOB1 MOB2 MOF1 MOF2 MOF2 Morofossils Total Andrews MOF2 Morofossils Mic	T. A. I. Core Cuttings 1 2 3 4 5	REFLECTANCE Mode core cuttings Non representative A No result Spreading B RoV equiv. fluo. 0,5 1 2 42	FLUORESCENCE Sepra/algal 2223 Humic Undifferen- tiated 1 2 3 4	CORES
130"					



: 25/2\_6 WELL

COUNTRY : NORWAY

Plate 2

Date AUGUST 78

Bronn 25/2-6. Sammendag av tesultatere fra organish geokjemisk analyse.

"Hot Shale (Portland - H. KIM); 30-83 - 3241 m RKB: Keogen type II (III) Noe mer terrestnisk en gjærashikel Marginalt modent -kategenetisk modent Enna tendens til kimodal olist H'busjon på 60 av mettet fraksjag. Type II fra termofordampete NC The representative presender for Re Enna I hlee hådd oljevinda (stat 1. Ko= 0.7-675

Brent-gr. (Baroc - Aalenian?) Brow Kengen fype II til II/I. "Normale" kull (ganste hog H. I Prile type III) Kathgenetisk modning, hoe mindre modert en aquindu Lenna bimodal distr. pa' 60 au metter HC).

Dunlin sh ( toare - herning ), 3317, 50-3504 n & kB'): Fighe Kerogen type II - II/II kategenetisk modning, tanger alje vindui; men here mindre modent an makes. oljegenererig for sype II - herogen

Statfjord-for (Snewerkheet) 3504 m - 3705 m RUB: Probleme med Esfuttoni kengen type II - IV Fatt, y. Soakt bimsdal AC-distribus /m pi & C- Hog hogy/pr Antagelig ved males djedanklise for apett men chardes for for 11 Fest hoge This heppe representation men muligers tidlig hondensatdande to C-bediene representative (law Sq) highavelfanat?

Brann 25/2-6. Tilpassning av barmefluks-lerdier. Forsok 1 : Konstant varmefluks lik 57 mb/m2 Bioom = 1.2 For law B by bamefluks Resultat Hotshale: Ro, average = G, 52%. Resultat Brent-gr : Ro, average \$ 6,53 %. Resultat Dunlin-gr sh : Ro, aberage 50, 55 /. Resultat statifier : Ro, average = 0.62 Roimales = 0.68 (Vm) Konklusjon på forsøk 1: Bra tilpsshing, kanship hoe for hog varmeflutes i gore un Bra tilgrashing i midt jun, kanskje hoe for hog call vameflucks. Now for Bre plpashing i with june Ma belge the hoger verneflater for an bedre tilpasseng 1 under jura . For las heat flow , statf. - fm

