



Continental Shelf Institute

Institutt for kontinentalsokkelundersøkelser

REPORT TITLE GC-MS analysis of oil from well 34/10-2		FORTROLIG i h.t. Beskyttelsesinstruksen, § 10-2 offentlighetslovens nr. _____
CONTRACTOR Statoil		
CONTRACTORS REF.: S.G. Larsen	JOB. NO.:	

BA 79-0116-1

7 DES 1979

REGISTRERT
ØKONOMISKE

SCIENTIST Malvin Bjørøy	DATE 14.11.1979	PROJECT NO. P-180/2/79
DEPARTMENT Environmental	NO. OF PAGES	NO. OF ENCLOSURE
	RESPONSIBLE SCIENTIST Malvin Bjørøy	

SUMMARY

The analysed oil does not correlate with any previously analysed samples.

KEY WORDS

Crude oil correlation

The oil from well 34/10-2 was treated and analysed by GS-MS under identical conditions to those reported in IKU report P180/1/79.

The sample appears to be low in absolute concentrations of triterpanes and steranes. However, the sterane and triterpane ratios used previously are listed in Tables 1 and 2. The absence of the C₂₈-triterpane from this sample suggests the oil to have a different origin than the oil found in 34/10-1. However, the sterane distribution observed is not unlike that obtained for the oil from 34/10-1 but differs considerably from those from the extracts samples from well 34/10-2, and appears to be more mature.

On the basis of these analysis the following conclusions may be drawn.

The oil from well 34/10-2 is not sourced from the same source rock as the oil found in 34/10-1. There might be a possibility that the oil in 34/10-1 is sourced from two different source rocks and that one of these is also source rock for the oil found in 34/10-2. The oil in 34/10-2 is not sourced from any of the penetrated shale sequences in this well.

Table 1

Relative Abundance of Major Steranes in Sample (Well 34/10-2)

Sterane Ratio	1/2	1/7	7/8	8/9	1/11	9/11	1/14	1/17	15/17	11/17
Parameter	1	2	3	4	5	6	7	8	9	10

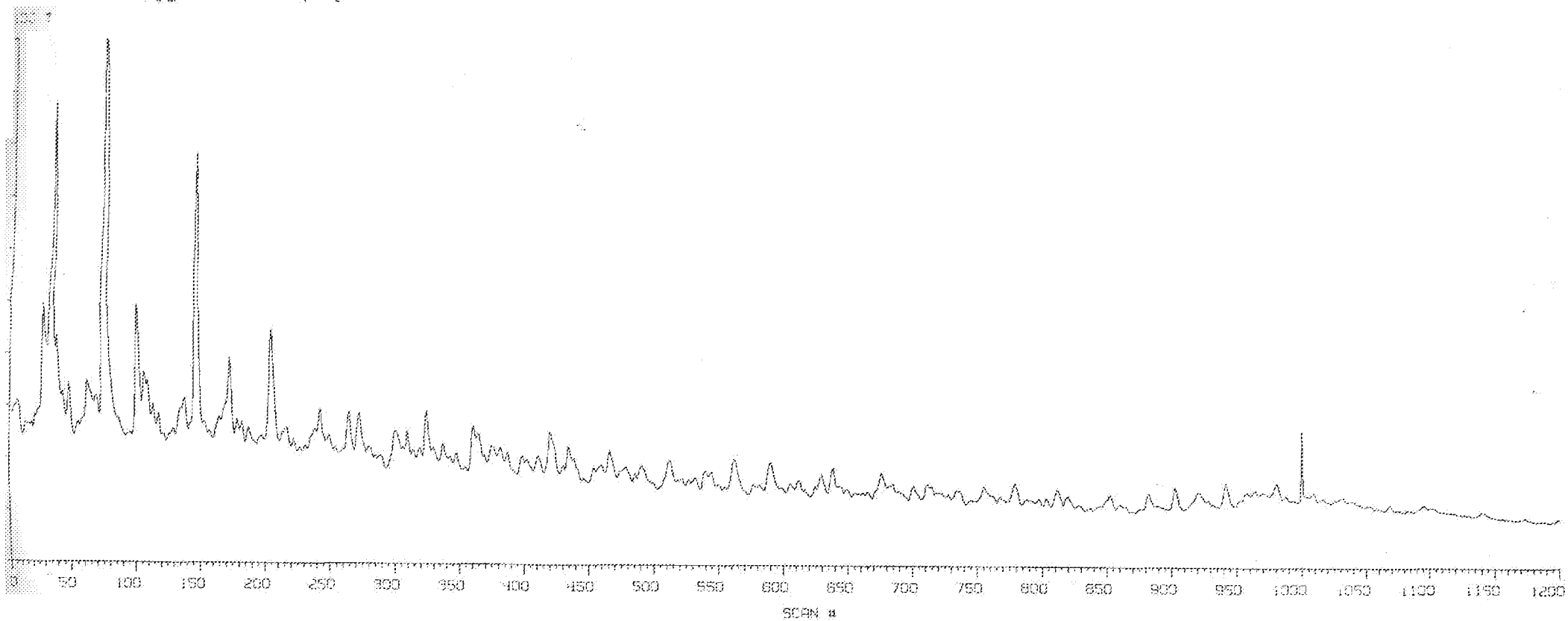
Table 2

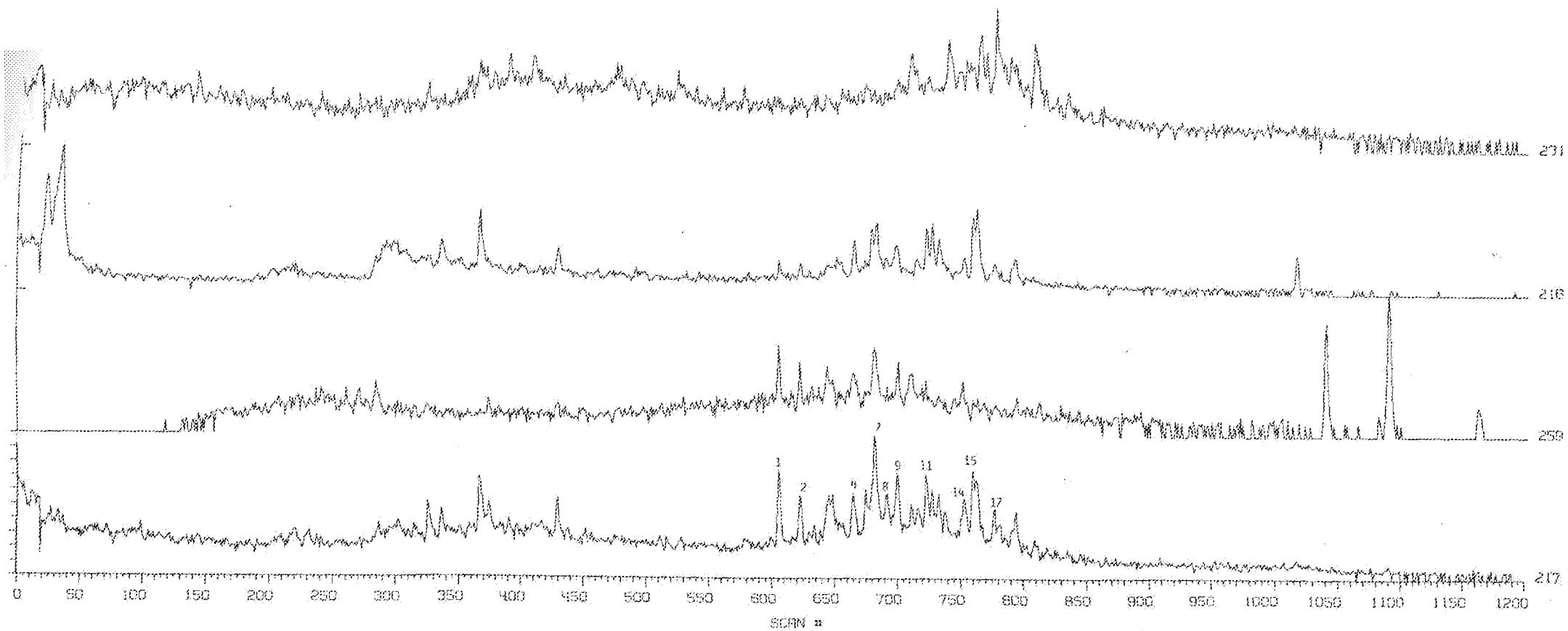
Triterpanes of Sample K819 (Well 34/10-2)

major sterane/major triterpane ratio	ratio of $\frac{17 \text{ H C}_{29}}{17 \text{ H C}_{30}}$	Comments
2.9	0.55	no C ₂₈ triterpane

IKU OIL WELL 2 K 819 (Well 34/10-2)

TIC x 1





TRU OIL WELL 2 K 819 (Well 34/10-2)

N/C 191 K 548

