

2/5-4 Cretaceous and  
33/9-1 Mid Jurassic.

725.3 2/5-4.

27/11-78 OD

AMOCO PRODUCTION COMPANY  
RESEARCH CENTER

Oil Correlation Analyses

2 Oils - Cretaceous and Jurassic - Amoco 2/5-4 and Mobil 33/9-1  
Offshore Norway

Geochemistry Group

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Technical Service 9129CC

Job 9229

Requested by K. D. Soule

AMOCO NORWAY OIL COMPANY

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Roger James (8-30-74)  
RR2

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INTRODUCTION

Two oils were submitted by Amoco Norway for routine oil correlation analyses. These oils were recovered from a Cretaceous Maestrichtian formation in the Amoco 2/5-4 Well located southeast of S. E. Torfelt Field and the Jurassic Dogger formation in the Mobil 33/9-1 Well in Brent Field.

DISCUSSION

Oil recovered from the Maestrichtian reservoir in the Amoco 2/5-4 Well is correlative to a mixture of unaltered J(b)+J type oils. This is illustrated by the position of data on the carbon isotope vs. optical rotation plot (Fig. 4). Oil from the Amoco 2/5-4 Well is correlative to previously analyzed oils in the Amoco 2/5-2 Well in Torfelt Field (TS 8543CC, 9-29-72).

The second oil, recovered from the Jurassic Dogger in the Mobil 33/9-1 Well, is correlative to an unaltered J(b) type oil. This oil is similar to J(b) type oils previously identified in the Conoco 211/28-1A (ST) Well (TS 8948CC, 2-22-74), the Signal 211/28-2 Well (TS 9056CC, 6-13-74) and the Mobil 9/13-1 Well (TS 8899CC, 11-21-73).

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LMR/RLA:rb 16.11

# Amoco Production Company

## RESEARCH CENTER CORRELATION ANALYSES

OFFICE Amoco Norway DISTRICT North Sea

REQUESTED BY K. D. Soule DATE 8-7-74

TECHNICAL SERVICE 9129CC GEOLOGICAL PROVINCE \_\_\_\_\_

OIL  ROCK

STATE (PROVINCE) Norway

SAMPLE	FIELD	COUNTY	WELL AND LOCATION	PAY SAMPLE INTERVAL	CARBON ISOTOPE $\delta^{13}C_{\text{‰}}$		OPTICAL ROTATION DEGREES	INFRARED SPECTRUM	ISOMER DISTRIB	HEAVY HC DISTRIB	°API AT 60°F		OIL TYPE
					ALIPHATIC	WHOLE OIL							
N9-16		Offshore	Amoco 2/5-4	Maestrichtian (Cret) 10,292'-10,400'	-27.9	-27.8	0.61	Mod. B	Fig. 2	Fig. 3	35.6		J(b)+J
N9-17	Brent	Offshore	Mobil 33/9-1	Dogger (Jur) 8086'-8116'	-29.5	-29.1	0.64	Mod. B	Fig. 2	Fig. 3	38.9		J(b)

REMARKS:

POSITIVE UNLESS OTHERWISE INDICATED;  
CANNOT USUALLY BE RUN ON ROCK EXTRACTS

ANALYST \_\_\_\_\_ DATE \_\_\_\_\_

TABLE 1

MOBIL  
33/9-1

AMOCO EUROPE INCORPORATED  
LONDON

UNITED KINGDOM	1	1945	0	AMOCO	1945
IRELAND	2	1945	0	AMOCO	1945
NETHERLANDS	3	1945	0	AMOCO	1945
FRANCE	4	1945	0	AMOCO	1945
GERMANY	5	1945	0	AMOCO	1945
SPAIN	6	1945	0	AMOCO	1945
PORTUGAL	7	1945	0	AMOCO	1945
ITALY	8	1945	0	AMOCO	1945
GREECE	9	1945	0	AMOCO	1945
TURKEY	10	1945	0	AMOCO	1945
YUGOSLAVIA	11	1945	0	AMOCO	1945
CROATIA	12	1945	0	AMOCO	1945
ALBANIA	13	1945	0	AMOCO	1945
BULGARIA	14	1945	0	AMOCO	1945
ROMANIA	15	1945	0	AMOCO	1945
HUNGARY	16	1945	0	AMOCO	1945
CZECHOSLOVAKIA	17	1945	0	AMOCO	1945
POLAND	18	1945	0	AMOCO	1945
USSR	19	1945	0	AMOCO	1945
CHINA	20	1945	0	AMOCO	1945
JAPAN	21	1945	0	AMOCO	1945
INDIA	22	1945	0	AMOCO	1945
PAKISTAN	23	1945	0	AMOCO	1945
AFGHANISTAN	24	1945	0	AMOCO	1945
IRAN	25	1945	0	AMOCO	1945
IRAQ	26	1945	0	AMOCO	1945
SAUDI ARABIA	27	1945	0	AMOCO	1945
EGYPT	28	1945	0	AMOCO	1945
LIBYA	29	1945	0	AMOCO	1945
ALGERIA	30	1945	0	AMOCO	1945
TUNISIA	31	1945	0	AMOCO	1945
MOROCCO	32	1945	0	AMOCO	1945
WEST AFRICA	33	1945	0	AMOCO	1945
EAST AFRICA	34	1945	0	AMOCO	1945
INDONESIA	35	1945	0	AMOCO	1945
PHILIPPINES	36	1945	0	AMOCO	1945
THAILAND	37	1945	0	AMOCO	1945
VIETNAM	38	1945	0	AMOCO	1945
LAOS	39	1945	0	AMOCO	1945
CAMBODIA	40	1945	0	AMOCO	1945
MYANMAR	41	1945	0	AMOCO	1945
INDONESIA	42	1945	0	AMOCO	1945
INDONESIA	43	1945	0	AMOCO	1945
INDONESIA	44	1945	0	AMOCO	1945
INDONESIA	45	1945	0	AMOCO	1945
INDONESIA	46	1945	0	AMOCO	1945
INDONESIA	47	1945	0	AMOCO	1945
INDONESIA	48	1945	0	AMOCO	1945
INDONESIA	49	1945	0	AMOCO	1945
INDONESIA	50	1945	0	AMOCO	1945

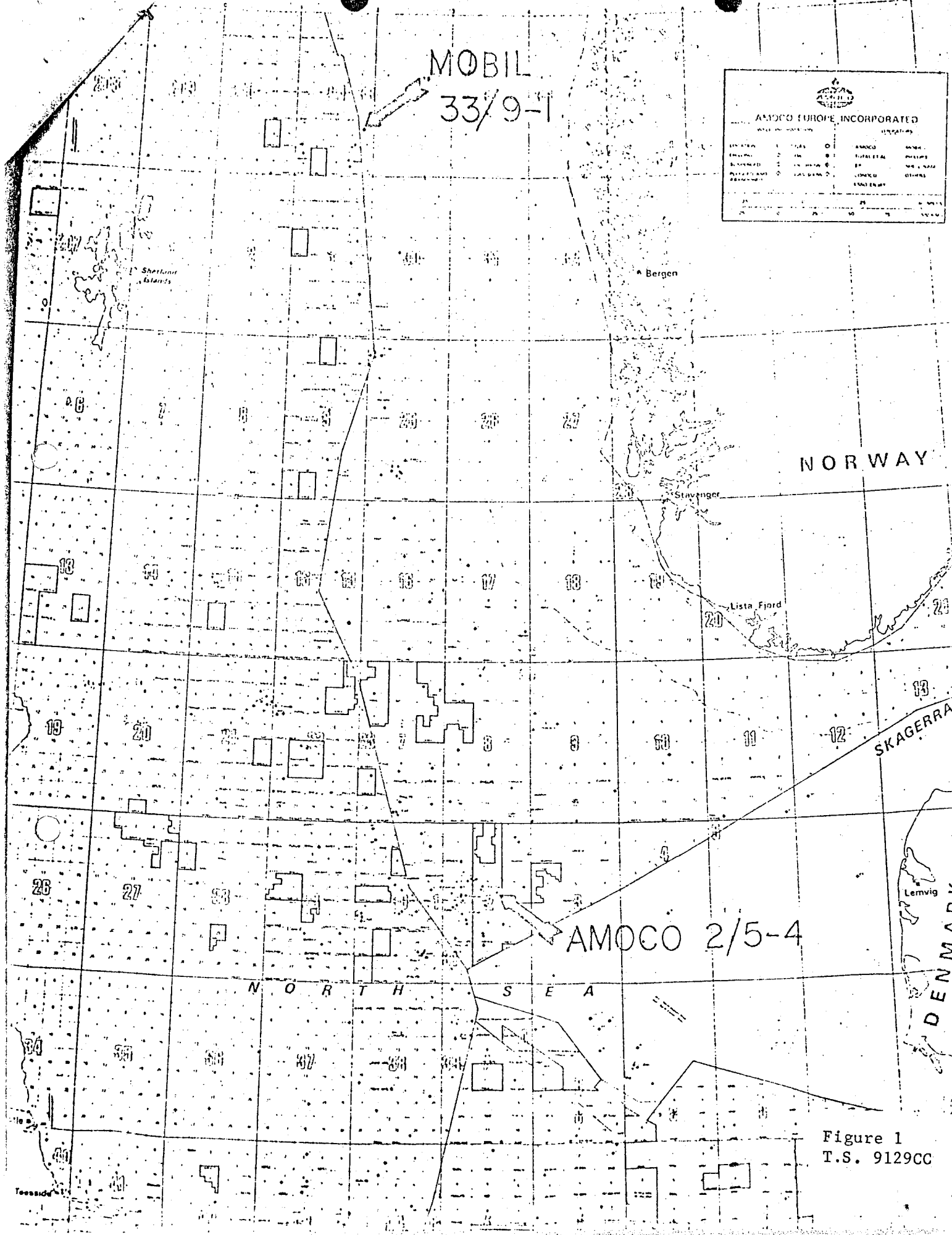


Figure 1  
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AMOCO PRODUCTION COMPANY  
Research Center

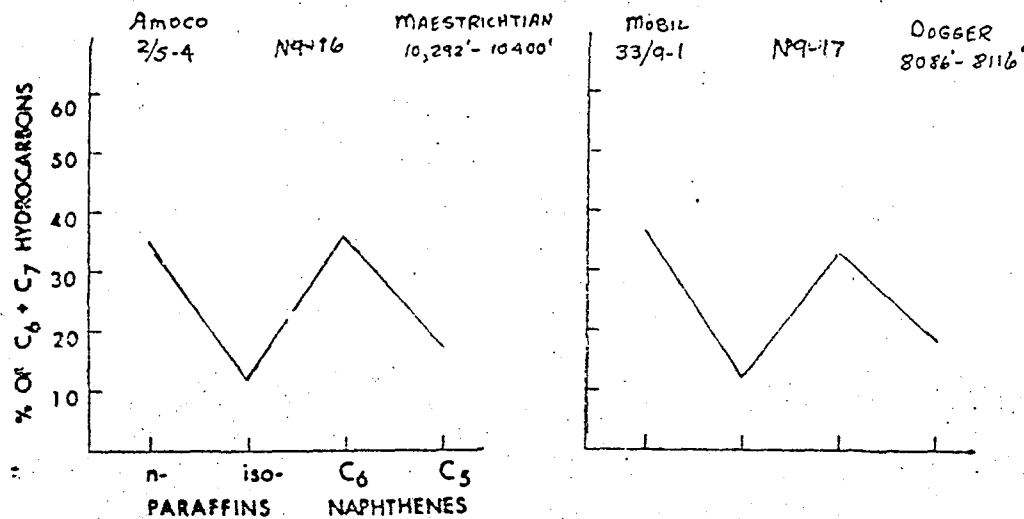


Figure 2  
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OIL  ROCK EXTRACT  ISOMER DISTRIBUTIONS

TECHNICAL SERVICE \_\_\_\_\_

AREA \_\_\_\_\_

DATE \_\_\_\_\_

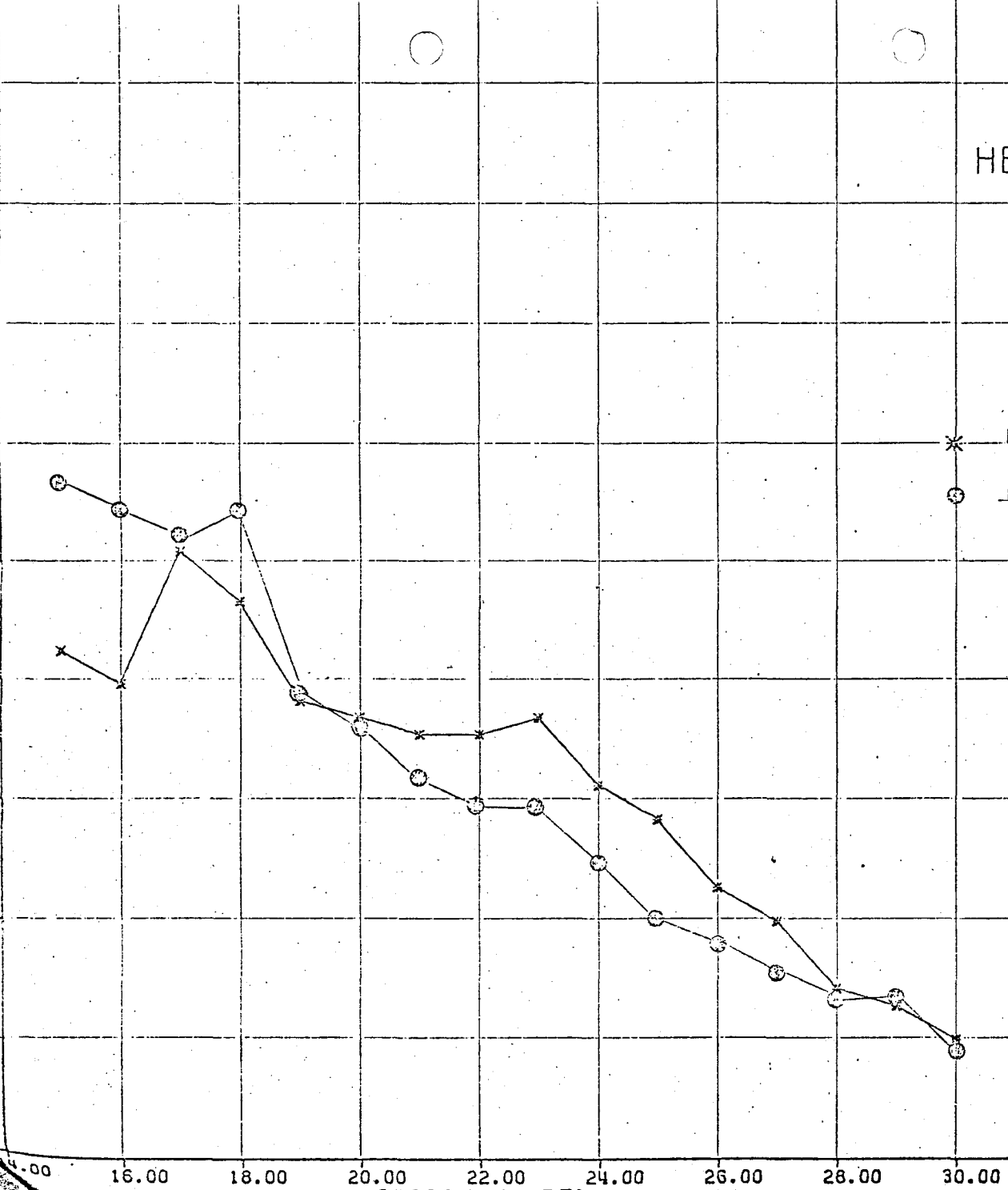
FIGURE

AMOCO PRODUCTION COMPANY  
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# HEAVY HYDROCARBON DISTRIBUTION

PERCENT

14.00  
12.00  
10.00  
8.00  
6.00  
4.00  
2.00  
0.00



CPI

N9-16 1.10  
N9-17 1.05

Figure 3  
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