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GEOCHEMICAL INVESTIGATION OF A GAS SAMPLE FROM
WELL 206/1-2, UNITED KINGDOM
by

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Investigation 8.122.04210

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WELL 206/1-2, UNITED KINGDOM

1. INTRODUCTION

Geochemical analyses have been completed on the gas sample from the following well (request UKL 101989 of 12-11-'86):

U.K. 206/1-2, 12582-12614 ft + 12625-12693 ft, bottle no A-16076.

2. RESULTS

The compositions of the gas (mole%, corrected for the presence of air) and the carbon isotope ratios of methane are as follows:

Sample	206/1-2 (bottle no. A-16076)
Methane	91.60
Ethane	4.78
Propane	1.92
i-Butane	0.28
n-Butane	0.37
i-Pentane	0.12
n-Pentane	0.10
C5-unsaturates	trace
C6+-hydrocarbons	0.11
Nitrogen	0.52
Carbon monoxide	trace
Carbon dioxide	0.20
$\delta^{13}\text{C}$ of Methane ($^{\circ}/_{\text{oo}}$ PDB)	-36.8

3. CONCLUSIONS

The methane/ethane ratio and the carbon isotope ratio of methane of the gas sample from well 206/1-2 indicate that the gas is of thermal origin, presumably from a kerogenous source rock.

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