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# COMPARISON OF EXTRACTABLE ORGANIC MATTER IN SEAL PEALS FROM WELL 30/6-22

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Resyme Konklusjon Anbefaling
Summary Conclusion Recommendation

The purpose of this study is to compare the extracts from two seal peal samples from well 30/6-22 .

The sample at 2929.0 m is from the oilzone, and both thermal extraction and solvent extraction shows a good hydrocarbon yield.

The sample at 2943.65 m is from the Upper Oseberg Zone, and have a very low hydrocarbon content.



Emneord Key words

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Emnekategori Subject category

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## 1. SUMMARY

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The sample at 2929.0 m is from the oilzone, and both thermal extraction and solvent extraction shows a good hydrocarbon yield.

The sample at 2943.65 m is from the Upper Oseberg Zone, and have a very low hydrocarbon content.

## 2. INTRODUCTION

The samples used in this study are seal peal samples from two sandstone sections in well 30/6-22. One sample is from the oilzone ( Etive ), and the extract from this sample is to be compared with a possible extract from the oil/waterzone in Upper Oseberg.

If oil is found in the sample from Upper Oseberg it is to be determined whether this oil is movable or residual.

## 3. THERMAL EXTRACTION

The results from the thermal extraction-GC are shown in Figure 1.

The sample at 2929.0 m show a good yield of hydrocarbons from n-C9 to n-C30. This is a typical extract from an oil producing sandstone.

The sample at 2943.65 m shows no presence of oil.

## 4. EXTRACTION, GAS CHROMATOGRAPHY

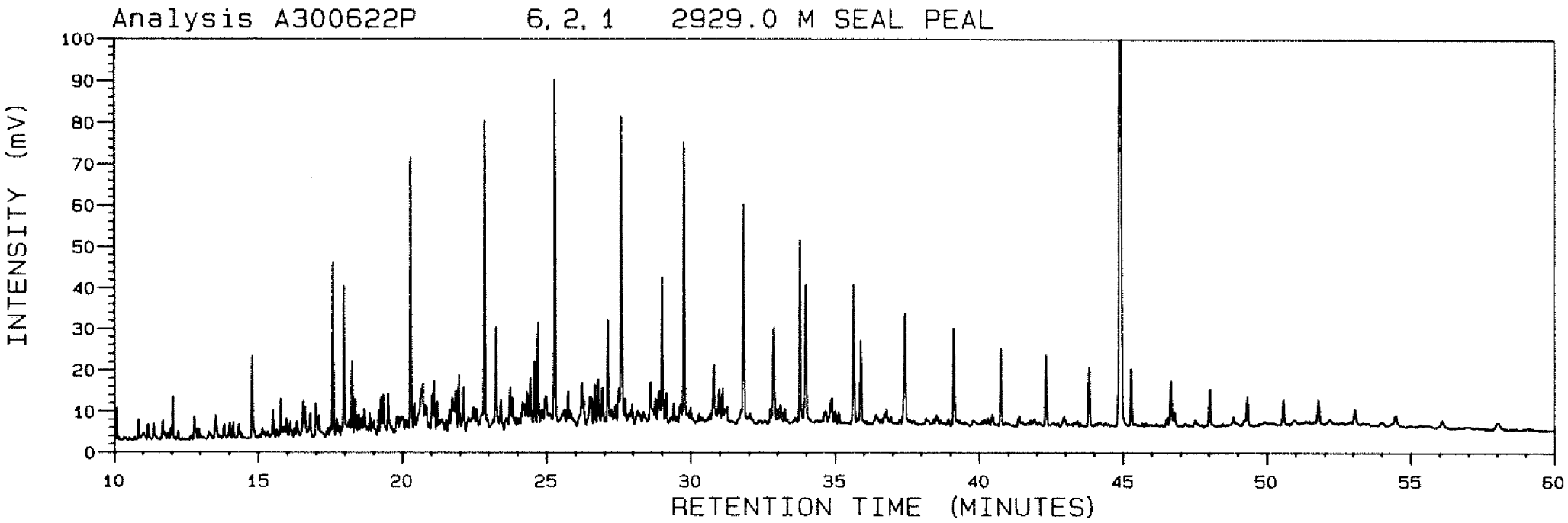
The results from the solvent extraction are given in Table 1., and the results from the Gas Chromatography are shown in Figure 2.

Table 1.

| SAMPLE | ROCK g | EOM mg | EOM % |
|---|---|---|---|
| 2929.00 M | 2.9084 | 10.9 | 0.37 |
| 2943.65 M | 5.1381 | 1.5 | 0.03 |

The solvent extraction - gas chromatography analysis gives the same results as explained for thermal extraction. The large peaks in the chromatogram of the sample from 2943.65 m are believed to be contamination from the wrapping of the seal peal.

Figure 1. Chromatograms from Thermal Extraction.


Analysis A300622P 6, 2, 1 2929.0 M SEAL PEAL
INTENSITY (mV)
RETENTION TIME (MINUTES)

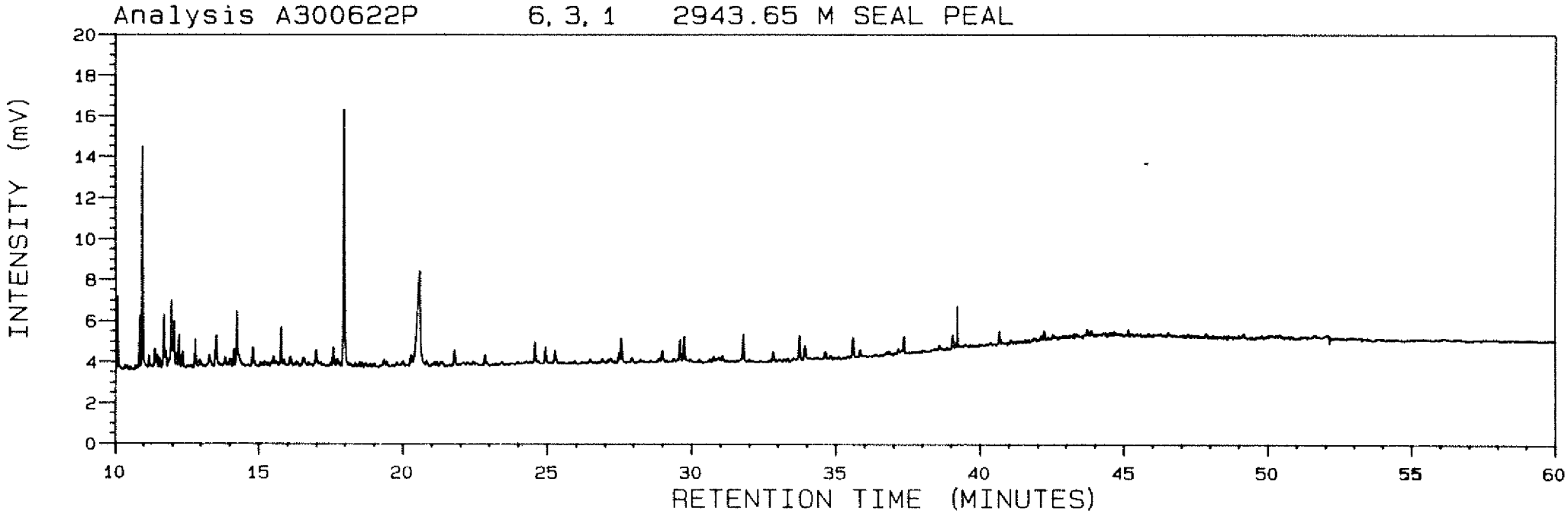
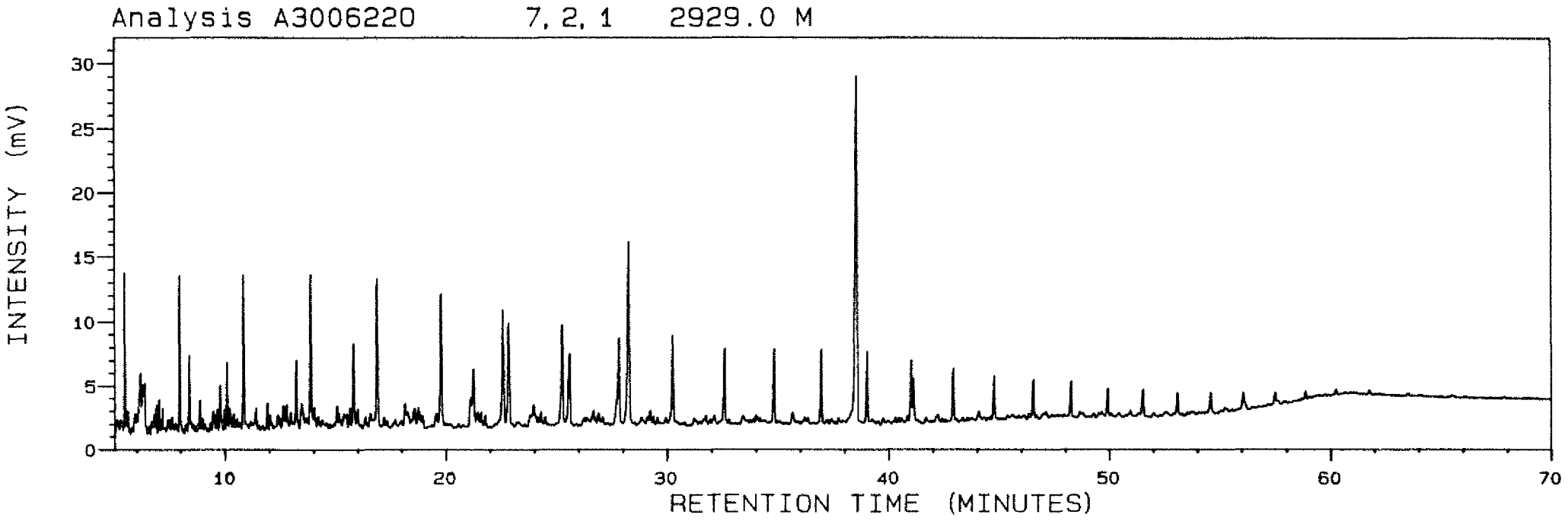
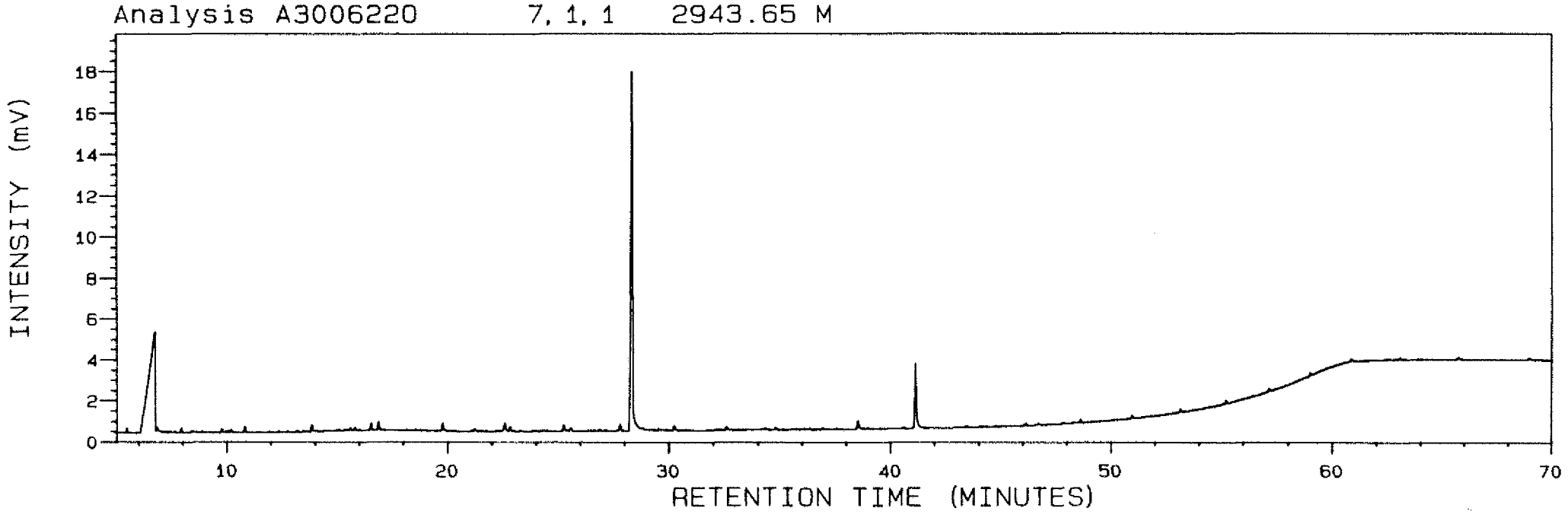

Analysis A300622P 6, 3, 1 2943.65 M SEAL PEAL
INTENSITY (mV)
RETENTION TIME (MINUTES)

Figure 2. Gas Chromatograms of Solvent extracts.


Analysis A3006220 7, 2, 1 2929.0 M
INTENSITY (mV)
0
5
10
15
20
25
30
10
20
30
40
50
60
70
RETENTION TIME (MINUTES)


Analysis A3006220 7, 1, 1 2943.65 M
INTENSITY (mV)
0
2
4
6
8
10
12
14
16
18
10
20
30
40
50
60
70
RETENTION TIME (MINUTES)