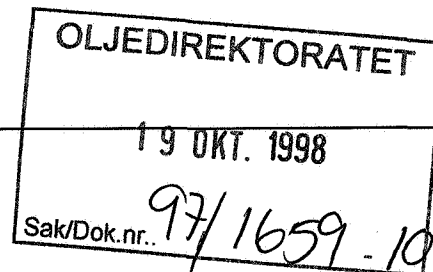


**Title**

Geochemical Evaluation of Well 34/7-26S & SR

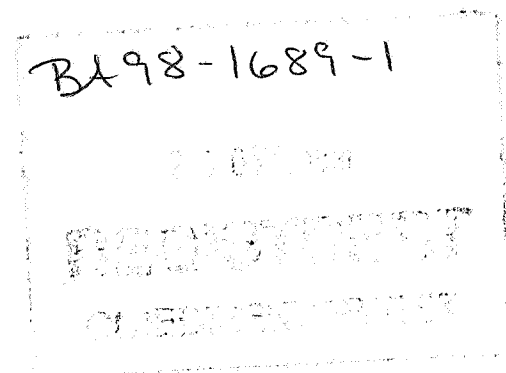
**Author(s)**

Rolando di Primio



**Abstract**

This report consists of a standard geochemical study on source rocks, maturity and migrated hydrocarbons encountered in well 34/7-26S & SR



**Key words**

Geochemistry, 34/7-26S, 34/7-26SR, Tampen Spur, H-Central

**Classification:**

☐ Open ☒ Saga and partners ☐ Internal ☐ Confidential ☐ Strictly confidential

| Resp. unit: | EXG                         | EXJ                    |  |  |  |
|-------------|-----------------------------|------------------------|--|--|--|
| Prepared    | Rd <i>R. di Primio</i>      |                        |  |  |  |
| Reviewed    | NM <i>N. M. [signature]</i> |                        |  |  |  |
| Approved    | ToH <i>[signature]</i>      | TSo <i>[signature]</i> |  |  |  |

### **Summary**

Well 34/7-26SR was sampled from first sample return to TD. Wet samples were selected for analysis in the interval 760 - 4689 m (TD), in addition the cored Draupne Formation interval (4513.3 - 4598.0 m) was sampled in detail. This core contained oil-stained sandstones at the top of an otherwise homogeneous mudstone sequence. The sandstone sequence (4513.3 - 4538.7 m) was sampled for migrated hydrocarbons, whereas the mudstone sequence (4541 - 4598 m) was sampled for source rock analysis. Organic geochemical analyses demonstrated that only the core samples provided acceptable analytical data. All cuttings samples were so severely contaminated by the drilling mud used, that any data derived from their analysis was unreliable.

# **1 Introduction**

The objectives of this study were to assess source rock potential of the sampled sections, evaluate maturity evolution through the well and identify and characterise encountered migrated hydrocarbons. The samples analysed are listed in Table 1.1 and the screening and molecular characterisation methods used are shown in Table 1.2. Analytical procedures were carried out following "The Norwegian Industry Guide to Organic Geochemical Analyses" (3<sup>rd</sup> edition, 1993), with the exception of TOC and Rock Eval measurements, which were performed using methods accredited by Saga. Vitrinite reflectance measurements were carried out by IFE, Kjeller, Norway. PyGC analysis was subcontracted by Robertson Research to LC<sup>2</sup> Chromatography Ltd. All other analytical work was performed at Robertson Research International Ltd., Llandudno, UK.

All depths listed in this report refer to measured depth RKB, with the exception of vitrinite reflectance data which is plotted against TVD relative to RKB. A chrono- and lithostratigraphic breakdown of the drilled interval is shown in Table 1.3.

**Table 1.1: ANALYTICAL PROGRAM**

| Well     | Sample Name | Upper Depth | Lower Depth | Sample Type | Headspace gas analysis | Occluded gas analysis | Gas Isotope analysis | Lithology descriptions | TOC | RockEval | Pyrolysis | Pyrolysis GC | VR (sent to IFE) | Visual Kerogen | Solvent Extraction | Asphaltene content | MPLC | Saturate GC | Aromatic GC | Saturate GCMS | Aromatic GCMS |
|----------|-------------|-------------|-------------|-------------|------------------------|-----------------------|----------------------|------------------------|-----|----------|-----------|--------------|------------------|----------------|--------------------|--------------------|------|-------------|-------------|---------------|---------------|
| 34/7-26S | 97030-182   | 500.0       | 500.0       | Cuttings    |                        |                       |                      |                        |     |          |           |              | X                |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-183   | 720.0       | 720.0       | Cuttings    |                        |                       |                      |                        |     |          |           |              | X                |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-1     | 760.0       | 760.0       | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-2     | 780.0       | 780.0       | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-3     | 820.0       | 820.0       | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-4     | 860.0       | 860.0       | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-5     | 890.0       | 890.0       | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-6     | 920.0       | 920.0       | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-7     | 950.0       | 950.0       | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-8     | 980.0       | 980.0       | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-9     | 970.0       | 970.0       | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-10    | 1000.0      | 1000.0      | Cuttings    | X                      | X                     |                      | X                      |     |          | X         |              | X                |                | X                  |                    |      |             |             |               |               |
| 34/7-26S | 97030-11    | 1010.0      | 1010.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-12    | 1020.0      | 1020.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-13    | 1040.0      | 1040.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-14    | 1060.0      | 1060.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-15    | 1080.0      | 1080.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-16    | 1100.0      | 1100.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-17    | 1120.0      | 1120.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-18    | 1140.0      | 1140.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-19    | 1180.0      | 1180.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-20    | 1220.0      | 1220.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              | X                |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-21    | 1240.0      | 1240.0      | Cuttings    | X                      | X                     | X                    | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-22    | 1260.0      | 1260.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-23    | 1270.0      | 1270.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-24    | 1280.0      | 1280.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-25    | 1300.0      | 1300.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-26    | 1320.0      | 1320.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-27    | 1340.0      | 1340.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-28    | 1360.0      | 1360.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-29    | 1380.0      | 1380.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-30    | 1420.0      | 1420.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              | X                |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-31    | 1460.0      | 1460.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-32    | 1500.0      | 1500.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-33    | 1540.0      | 1540.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-34    | 1580.0      | 1580.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26S | 97030-35    | 1600.0      | 1600.0      | Cuttings    | X                      | X                     |                      | X                      |     |          |           |              |                  |                |                    |                    |      |             |             |               |               |



### Table 1.1: ANALYTICAL PROGRAM

[illegible]

**Table 1.1: ANALYTICAL PROGRAM**

| Well      | Sample Name | Upper Depth | Lower Depth | Sample Type | Headspace gas analysis | Occluded gas analysis | Gas isotope analysis | Lithology descriptions | TOC | RockEvalPyrolysis | Introscon | Pyrolysis GC | VR (sent to IFE) | Visual Kerogen | Solvent Extraction | Asphaltene content | MPLC | Saturate GC | Aromatic GC | Saturate GCMS | Aromatic GCMS |
|-----------|-------------|-------------|-------------|-------------|------------------------|-----------------------|----------------------|------------------------|-----|-------------------|-----------|--------------|------------------|----------------|--------------------|--------------------|------|-------------|-------------|---------------|---------------|
| 34/7-26SR | 97030-110   | 4250.0      | 4250.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-111   | 4260.0      | 4260.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-112   | 4270.0      | 4270.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              | X                |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-113   | 4300.0      | 4300.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-114   | 4310.0      | 4310.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-115   | 4320.0      | 4320.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-116   | 4330.0      | 4330.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   | X         |              |                  |                | X                  | X                  | X    | X           | X           |               |               |
| 34/7-26SR | 97030-117   | 4340.0      | 4340.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-118   | 4350.0      | 4350.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-119   | 4360.0      | 4360.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-120   | 4370.0      | 4370.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   | X         |              |                  |                | X                  |                    |      |             |             |               |               |
| 34/7-26SR | 97030-121   | 4380.0      | 4380.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-122   | 4390.0      | 4390.0      | Cuttings    | X                      | X                     | X                    | X                      |     |                   | X         |              |                  |                | X                  |                    |      |             |             |               |               |
| 34/7-26SR | 97030-123   | 4400.0      | 4400.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-124   | 4410.0      | 4410.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   | X         |              |                  |                | X                  |                    |      |             |             |               |               |
| 34/7-26SR | 97030-125   | 4420.0      | 4420.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-126   | 4430.0      | 4430.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   | X         |              |                  |                | X                  | X                  | X    | X           | X           |               |               |
| 34/7-26SR | 97030-127   | 4440.0      | 4440.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-128   | 4450.0      | 4450.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-129   | 4460.0      | 4460.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-130   | 4470.0      | 4470.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-131   | 4480.0      | 4480.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   | X         |              | X                |                | X                  |                    |      |             |             |               |               |
| 34/7-26SR | 97030-132   | 4490.0      | 4490.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-133   | 4500.0      | 4500.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   | X         |              |                  |                | X                  |                    |      |             |             |               |               |
| 34/7-26SR | 97030-134   | 4510.0      | 4510.0      | Cuttings    | X                      | X                     | X                    | X                      |     |                   | X         |              |                  |                | X                  | X                  | X    | X           | X           |               |               |
| 34/7-26SR | 97030-135   | 4518.0      | 4518.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   | X         |              |                  |                | X                  |                    |      |             |             |               |               |
| 34/7-26SR | 97030-136   | 4527.0      | 4527.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   | X         |              |                  |                | X                  |                    |      |             |             |               |               |
| 34/7-26SR | 97030-137   | 4536.0      | 4536.0      | Cuttings    | X                      | X                     | X                    | X                      |     |                   | X         |              |                  |                | X                  |                    |      |             |             |               |               |
| 34/7-26SR | 97030-138   | 4545.0      | 4545.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-139   | 4563.0      | 4563.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-140   | 4581.0      | 4581.0      | Cuttings    | X                      | X                     |                      | X                      |     |                   |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-141   | 4599.0      | 4599.0      | Cuttings    | X                      | X                     |                      | X                      | X   | X                 |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-142   | 4617.0      | 4617.0      | Cuttings    | X                      | X                     |                      | X                      | X   | X                 |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-143   | 4635.0      | 4635.0      | Cuttings    | X                      | X                     |                      | X                      | X   | X                 |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-144   | 4653.0      | 4653.0      | Cuttings    | X                      | X                     |                      | X                      | X   | X                 |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-145   | 4671.0      | 4671.0      | Cuttings    | X                      | X                     |                      | X                      | X   | X                 |           |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-146   | 4689.0      | 4689.0      | Cuttings    | X                      | X                     |                      | X                      | X   | X                 |           |              |                  |                |                    |                    |      |             |             |               |               |

Table 1.1: ANALYTICAL PROGRAM

| Well      | Sample Name | Upper Depth | Lower Depth | Sample Type | Headspace gas analysis | Occluded gas analysis | Gas Isotope analysis | Lithology descriptions | TOC | RockEvalPyrolysis | Introspect | Pyrolysis GC | VR (sent to IFE) | Visual Kerogen | Solvent Extraction | Asphaltene content | MPLC | Saturate GC | Aromatic GC | Saturate GCMS | Aromatic GCMS |
|-----------|-------------|-------------|-------------|-------------|------------------------|-----------------------|----------------------|------------------------|-----|-------------------|------------|--------------|------------------|----------------|--------------------|--------------------|------|-------------|-------------|---------------|---------------|
| 34/7-26SR | 97030-147   | 4513.3      | 4513.3      | Core        |                        |                       |                      |                        |     |                   | X          |              |                  |                | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-148   | 4516.5      | 4516.5      | Core        |                        |                       |                      |                        |     |                   | X          |              |                  |                | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-149   | 4517.4      | 4517.4      | Core        |                        |                       |                      |                        |     |                   | X          |              |                  |                | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-150   | 4533.1      | 4533.1      | Core        |                        |                       |                      |                        |     |                   | X          |              |                  |                | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-151   | 4535.0      | 4535.0      | Core        |                        |                       |                      |                        |     |                   | X          |              |                  |                | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-152   | 4536.7      | 4536.7      | Core        |                        |                       |                      |                        |     |                   | X          |              |                  |                | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-153   | 4538.7      | 4538.7      | Core        |                        |                       |                      |                        |     |                   | X          |              |                  |                | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-154   | 4541.0      | 4541.0      | Core        |                        |                       |                      |                        | X   | X                 | X          | X            | X                | X              | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-155   | 4543.0      | 4543.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-156   | 4545.0      | 4545.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-157   | 4547.0      | 4547.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-158   | 4549.0      | 4549.0      | Core        |                        |                       |                      |                        | X   | X                 |            | X            | X                | X              |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-159   | 4551.4      | 4551.4      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-160   | 4553.0      | 4553.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-161   | 4555.0      | 4555.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-162   | 4557.0      | 4557.0      | Core        |                        |                       |                      |                        | X   | X                 | X          | X            | X                | X              | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-163   | 4559.0      | 4559.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-164   | 4561.0      | 4561.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-165   | 4563.0      | 4563.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-166   | 4565.0      | 4565.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-167   | 4567.0      | 4567.0      | Core        |                        |                       |                      |                        | X   | X                 |            | X            | X                | X              |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-168   | 4569.0      | 4569.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-169   | 4571.0      | 4571.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-170   | 4573.0      | 4573.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-171   | 4575.0      | 4575.0      | Core        |                        |                       |                      |                        | X   | X                 | X          | X            | X                | X              | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-172   | 4577.0      | 4577.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-173   | 4579.0      | 4579.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-174   | 4581.0      | 4581.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-175   | 4583.0      | 4583.0      | Core        |                        |                       |                      |                        | X   | X                 |            | X            | X                | X              |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-176   | 4585.0      | 4585.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-177   | 4587.0      | 4587.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-178   | 4589.0      | 4589.0      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-179   | 4593.3      | 4593.3      | Core        |                        |                       |                      |                        | X   | X                 |            |              |                  |                |                    |                    |      |             |             |               |               |
| 34/7-26SR | 97030-180   | 4596.0      | 4596.0      | Core        |                        |                       |                      |                        | X   | X                 | X          | X            | X                | X              | X                  | X                  | X    | X           | X           | X             | X             |
| 34/7-26SR | 97030-181   | 4598.0      | 4598.0      | Core        |                        |                       |                      |                        | X   | X                 | X          | X            | X                | X              | X                  | X                  | X    | X           | X           | X             | X             |

146 146 5 146 34 34 31 8 25 8 31 16 16 16 16 12 12

**Table 1.2: EXPERIMENTAL PROCEDURES**

| ANALYSIS                 | INSTRUMENT                                      | METHOD     | TEMPERATURE PROGRAM                                              | COLUMNS               |
|--------------------------|-------------------------------------------------|------------|------------------------------------------------------------------|-----------------------|
| Headspace gas            | Perkin Elmer Sigma 3                            | NPD method | isothermal 110C                                                  | 1/8" SS, packed       |
| Occluded gas             | Perkin Elmer Sigma 3                            | NPD method | isothermal 110C                                                  | 1/8" SS, packed       |
| TOC                      | Leco CS 125                                     | OLS 1 *    |                                                                  |                       |
| Rock Eval Pyrolysis      | Rock Eval II                                    | OLS 5 *    | Cycle 1                                                          |                       |
| Quantitative Extraction  | Soxhtec Tecator 1043                            | NPD method | Boil 1 hr, rinse 2hrs (DCM:MeOH, 7:1)                            |                       |
| Asphaltene precipitation |                                                 | NPD method |                                                                  |                       |
| Iatroscan                | Iatroscan Mk III                                | NPD method |                                                                  |                       |
| Hydrocarbon separation   | Kontron HPLC                                    | NPD method |                                                                  | Lobar Lichroprep Si60 |
| Alkane GC                | HP5890a (on column)                             | NPD method | 50C 3min, 5C/min to 300C, 300C 20 min.                           | CP SIL-5 (30m)        |
| Aromatic GC              | AI 92                                           | NPD method | 80C 1min, 1C/min to 103C, 4C/min to 240C, 10C/min to 300C 20 min | CP SIL-8 (30m)        |
| Pyrolysis GC **          | HP5790                                          | NPD method | 30C, 6C/min to 300C, 300C 20 min.                                | GC-1 (30m)            |
| Alkane GC/MS             | Finnegan 4000                                   | NPD method | 50C 1min, 15C/min to 210C, 2C/min to 300C 36 min.                | DB-5MS (60m)          |
| Aromatic GC/MS           | Finnegan 4000                                   | NPD method | 100C 1min, 10C/min to 310C 15 min.                               | DB-5MS (60m)          |
| Isotope analysis         | sub contracted and run at Saga's request by IFE |            |                                                                  |                       |

\* - TOC and Rock Eval methods are comparable with NPD method. However we do not have Black Ven Marl. Consequently, the Rock Eval was calibrated with a standard related to Delsi IFP standard. In house check standards are run at greater frequency than prescribed in the NPD guidelines. Furthermore, both these methods are NAMAS accredited. Robertson Laboratories has been NAMAS accredited for the majority of it's geochemical services since 1991. NAMAS, an organisation established by the UK government, has reciprocal agreements with Norske Veritas. NAMAS accreditation is specifically designed for laboratory testing and is broadly based on ISO 9001. Robertson Laboratories were audited by Saga (Audit no. SAGA-93-110) and it's geochemical methods which are accredited by NAMAS were found to be satisfactory.

\*\* - Pyrolysis GC analysis was subcontracted to LC<sup>2</sup> Chromatography Ltd.

**Table 3.1: TOC and Rock Eval Pyrolysis Data**

| Well<br>Name | Nation | Sample<br>Name | Upper<br>Depth | Lower<br>Depth | Sample<br>Type | Lithology          | S1<br>mg/g | S2<br>mg/g | S3<br>mg/g | Tmax<br>deg C | TOC<br>% wt |
|--------------|--------|----------------|----------------|----------------|----------------|--------------------|------------|------------|------------|---------------|-------------|
| 34/7-26SR    | NOR    | 97030-141      | 4599.0         | 4599.0         | Cuttings       | Clyst, med dk gy + | 24.03      | 23.86      | 1.08       | 421           | 5.55        |
| 34/7-26SR    | NOR    | 97030-142      | 4617.0         | 4617.0         | Cuttings       | Clyst, med dk gy + | 28.54      | 16.58      | 0.95       | 423           | 5.25        |
| 34/7-26SR    | NOR    | 97030-143      | 4635.0         | 4635.0         | Cuttings       | Clyst, olv gy +    | 26.72      | 10.45      | 0.61       | 428           | 3.60        |
| 34/7-26SR    | NOR    | 97030-144      | 4653.0         | 4653.0         | Cuttings       | Clyst, brn gy +    | 25.97      | 8.86       | 0.63       | 432           | 3.31        |
| 34/7-26SR    | NOR    | 97030-145      | 4671.0         | 4671.0         | Cuttings       | Clyst, brn gy +    | 26.31      | 7.77       | 0.74       | 427           | 3.89        |
| 34/7-26SR    | NOR    | 97030-146      | 4689.0         | 4689.0         | Cuttings       | Clyst, brn gy +    | 25.61      | 7.98       | 0.83       | 431           | 4.27        |
| 34/7-26SR    | NOR    | 97030-154      | 4541.0         | 4541.0         | Core           |                    | 4.09       | 30.07      | 0.37       | 425           | 5.78        |
| 34/7-26SR    | NOR    | 97030-155      | 4543.0         | 4543.0         | Core           |                    | 2.95       | 34.01      | 0.34       | 425           | 6.71        |
| 34/7-26SR    | NOR    | 97030-156      | 4545.0         | 4545.0         | Core           |                    | 3.23       | 14.25      | 0.26       | 422           | 3.37        |
| 34/7-26SR    | NOR    | 97030-157      | 4547.0         | 4547.0         | Core           |                    | 2.59       | 27.17      | 0.39       | 420           | 5.87        |
| 34/7-26SR    | NOR    | 97030-158      | 4549.0         | 4549.0         | Core           |                    | 3.51       | 13.14      | 0.31       | 420           | 3.47        |
| 34/7-26SR    | NOR    | 97030-159      | 4551.4         | 4551.4         | Core           |                    | 1.69       | 21.25      | 0.48       | 419           | 4.47        |
| 34/7-26SR    | NOR    | 97030-160      | 4553.0         | 4553.0         | Core           |                    | 1.75       | 18.82      | 0.50       | 417           | 4.54        |
| 34/7-26SR    | NOR    | 97030-161      | 4555.0         | 4555.0         | Core           |                    | 1.24       | 16.41      | 0.53       | 419           | 3.88        |
| 34/7-26SR    | NOR    | 97030-162      | 4557.0         | 4557.0         | Core           |                    | 1.59       | 21.72      | 0.48       | 420           | 5.24        |
| 34/7-26SR    | NOR    | 97030-163      | 4559.0         | 4559.0         | Core           |                    | 2.55       | 17.22      | 0.39       | 418           | 4.19        |
| 34/7-26SR    | NOR    | 97030-164      | 4561.0         | 4561.0         | Core           |                    | 1.54       | 15.08      | 0.54       | 420           | 3.84        |
| 34/7-26SR    | NOR    | 97030-165      | 4563.0         | 4563.0         | Core           |                    | 2.73       | 15.23      | 0.42       | 419           | 3.73        |
| 34/7-26SR    | NOR    | 97030-166      | 4565.0         | 4565.0         | Core           |                    | 2.16       | 18.35      | 0.54       | 420           | 4.15        |
| 34/7-26SR    | NOR    | 97030-167      | 4567.0         | 4567.0         | Core           |                    | 1.48       | 20.00      | 0.48       | 422           | 4.31        |
| 34/7-26SR    | NOR    | 97030-168      | 4569.0         | 4569.0         | Core           |                    | 1.93       | 17.28      | 0.55       | 419           | 4.26        |
| 34/7-26SR    | NOR    | 97030-169      | 4571.0         | 4571.0         | Core           |                    | 2.55       | 28.71      | 0.56       | 420           | 5.73        |
| 34/7-26SR    | NOR    | 97030-170      | 4573.0         | 4573.0         | Core           |                    | 1.97       | 23.72      | 0.63       | 426           | 5.12        |
| 34/7-26SR    | NOR    | 97030-171      | 4575.0         | 4575.0         | Core           |                    | 1.86       | 26.12      | 0.56       | 421           | 5.28        |
| 34/7-26SR    | NOR    | 97030-172      | 4577.0         | 4577.0         | Core           |                    | 1.88       | 24.36      | 0.57       | 420           | 5.44        |
| 34/7-26SR    | NOR    | 97030-173      | 4579.0         | 4579.0         | Core           |                    | 1.42       | 30.22      | 0.61       | 421           | 6.31        |
| 34/7-26SR    | NOR    | 97030-174      | 4581.0         | 4581.0         | Core           |                    | 1.38       | 33.43      | 0.62       | 418           | 6.52        |
| 34/7-26SR    | NOR    | 97030-175      | 4583.0         | 4583.0         | Core           |                    | 3.14       | 42.35      | 0.67       | 421           | 8.03        |
| 34/7-26SR    | NOR    | 97030-176      | 4585.0         | 4585.0         | Core           |                    | 2.73       | 33.18      | 0.59       | 419           | 6.86        |
| 34/7-26SR    | NOR    | 97030-177      | 4587.0         | 4587.0         | Core           |                    | 3.19       | 33.29      | 0.55       | 417           | 6.57        |
| 34/7-26SR    | NOR    | 97030-178      | 4589.0         | 4589.0         | Core           |                    | 3.12       | 10.93      | 0.58       | 420           | 8.09        |
| 34/7-26SR    | NOR    | 97030-179      | 4593.3         | 4593.3         | Core           |                    | 3.72       | 39.92      | 0.66       | 418           | 8.70        |
| 34/7-26SR    | NOR    | 97030-180      | 4596.0         | 4596.0         | Core           |                    | 8.72       | 36.05      | 0.52       | 421           | 7.63        |
| 34/7-26SR    | NOR    | 97030-181      | 4598.0         | 4598.0         | Core           |                    | 8.30       | 5.79       | 0.49       | 414           | 2.75        |

**Table 3.2: Pyrolysis GC Peak Area Data**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | Lithology | C1 % | C2-C5 % | C6-14 % | C15+ % |
|-----------|--------|-------------|-------------|-------------|-------------|-----------|------|---------|---------|--------|
| 34/7-26SR | NOR    | 97030-154   | 4541.0      | 4541.0      | Core        |           | 4.4  | 10.0    | 49.4    | 36.1   |
| 34/7-26SR | NOR    | 97030-158   | 4549.0      | 4549.0      | Core        |           | 3.6  | 15.0    | 39.1    | 42.3   |
| 34/7-26SR | NOR    | 97030-162   | 4557.0      | 4557.0      | Core        |           | 5.0  | 13.8    | 41.9    | 39.3   |
| 34/7-26SR | NOR    | 97030-167   | 4567.0      | 4567.0      | Core        |           | 4.6  | 12.8    | 46.1    | 36.5   |
| 34/7-26SR | NOR    | 97030-171   | 4575.0      | 4575.0      | Core        |           | 3.4  | 12.9    | 44.2    | 39.5   |
| 34/7-26SR | NOR    | 97030-175   | 4583.0      | 4583.0      | Core        |           | 2.9  | 12.9    | 43.3    | 40.9   |
| 34/7-26SR | NOR    | 97030-180   | 4596.0      | 4596.0      | Core        |           | 3.9  | 11.4    | 39.0    | 45.7   |
| 34/7-26SR | NOR    | 97030-181   | 4598.0      | 4598.0      | Core        |           | 6.2  | 14.7    | 54.0    | 25.1   |

Table 3.3: Visual kerogen analysis

| Sample Depth | Sample Type | Inertinite | Vitrinite | Sapropel |
|--------------|-------------|------------|-----------|----------|
| mRKB         |             | (%)        | (%)       | (%)      |
| 4541         | Core        | 5          |           | 95       |
| 4549         | Core        | 15         |           | 85       |
| 4557         | Core        | 5          |           | 95       |
| 4565         | Core        | 10         |           | 90       |
| 4575         | Core        | 10         |           | 90       |
| 4583         | Core        | 5          |           | 95       |
| 4596         | Core        | 10         |           | 90       |
| 4598         | Core        | 20         | 20        | 60       |

**Table 3.4: Extraction and Iatroscan Fractionation Data**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | Lithology              | Rock Wt (Gm) | Extract Yield (mg/g) | Sats I (mg/g) | Aroms I (mg/g) | Asph I (mg/g) | Polar I (mg/g) |
|-----------|--------|-------------|-------------|-------------|-------------|------------------------|--------------|----------------------|---------------|----------------|---------------|----------------|
| 34/7-26S  | NOR    | 97030-10    | 1000.0      | 1000.0      | Cuttings    | Sst, lt med gy, calc + | 2.0          | 2.2                  | 0.4           | 0.4            |               | 1.4            |
| 34/7-26S  | NOR    | 97030-53    | 2120.0      | 2120.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 1.0                  | 0.5           | 0.2            |               | 0.3            |
| 34/7-26S  | NOR    | 97030-76    | 3020.0      | 3020.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 12.9                 | 10.7          | 0.5            |               | 1.7            |
| 34/7-26S  | NOR    | 97030-84    | 3340.0      | 3340.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 6.4                  | 4.4           | 0.5            |               | 1.5            |
| 34/7-26S  | NOR    | 97030-85    | 3380.0      | 3380.0      | Cuttings    | Clyst, med gy +        | 2.0          | 10.9                 | 8.2           | 0.6            |               | 2.1            |
| 34/7-26S  | NOR    | 97030-100   | 3960.0      | 3960.0      | Cuttings    | Clyst, med gy +        | 2.0          | 3.6                  | 2.2           | 0.6            |               | 0.8            |
| 34/7-26S  | NOR    | 97030-101   | 3980.0      | 3980.0      | Cuttings    | Clyst, med gy +        | 2.0          | 4.2                  | 2.8           | 0.6            |               | 0.8            |
| 34/7-26S  | NOR    | 97030-104   | 4060.0      | 4060.0      | Cuttings    | Clyst, med gy +        | 2.0          | 4.5                  | 2.8           | 0.6            |               | 1.1            |
| 34/7-26SR | NOR    | 97030-116   | 4330.0      | 4330.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 14.8                 | 11.4          | 0.8            |               | 2.5            |
| 34/7-26SR | NOR    | 97030-120   | 4370.0      | 4370.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 13.3                 | 9.5           | 0.8            |               | 3.0            |
| 34/7-26SR | NOR    | 97030-122   | 4390.0      | 4390.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 13.6                 | 10.5          | 0.6            |               | 2.5            |
| 34/7-26SR | NOR    | 97030-124   | 4410.0      | 4410.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 12.1                 | 8.7           | 0.8            |               | 2.6            |
| 34/7-26SR | NOR    | 97030-126   | 4430.0      | 4430.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 13.7                 | 10.7          | 0.5            |               | 2.4            |
| 34/7-26SR | NOR    | 97030-131   | 4480.0      | 4480.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 16.0                 | 11.7          | 0.5            |               | 3.7            |
| 34/7-26SR | NOR    | 97030-133   | 4500.0      | 4500.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 13.3                 | 9.3           | 0.7            |               | 3.2            |
| 34/7-26SR | NOR    | 97030-134   | 4510.0      | 4510.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 11.9                 | 9.1           | 0.5            |               | 2.3            |
| 34/7-26SR | NOR    | 97030-135   | 4518.0      | 4518.0      | Cuttings    | Clyst, lt olv gy +     | 2.0          | 18.8                 | 13.7          | 0.8            |               | 4.2            |
| 34/7-26SR | NOR    | 97030-136   | 4527.0      | 4527.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 22.7                 | 18.1          | 0.6            |               | 4.0            |
| 34/7-26SR | NOR    | 97030-137   | 4536.0      | 4536.0      | Cuttings    | Clyst, med dk gy +     | 2.0          | 28.8                 | 21.5          | 0.7            |               | 6.6            |
| 34/7-26SR | NOR    | 97030-147   | 4513.3      | 4513.3      | Core        |                        | 17.9         | 21.7                 | 16.3          | 2.6            |               | 2.8            |
| 34/7-26SR | NOR    | 97030-148   | 4516.5      | 4516.5      | Core        |                        | 20.4         | 13.1                 | 9.3           | 1.7            |               | 2.1            |
| 34/7-26SR | NOR    | 97030-149   | 4517.4      | 4517.4      | Core        |                        | 12.4         | 42.2                 | 30.0          | 6.6            |               | 5.6            |
| 34/7-26SR | NOR    | 97030-150   | 4533.1      | 4533.1      | Core        |                        | 15.0         | 34.1                 | 23.1          | 6.1            |               | 4.9            |
| 34/7-26SR | NOR    | 97030-151   | 4535.0      | 4535.0      | Core        |                        | 11.0         | 68.2                 | 46.9          | 12.2           |               | 9.1            |
| 34/7-26SR | NOR    | 97030-152   | 4536.7      | 4536.7      | Core        |                        | 13.0         | 2.4                  | 1.8           | 0.2            |               | 0.4            |
| 34/7-26SR | NOR    | 97030-153   | 4538.7      | 4538.7      | Core        |                        | 12.0         | 13.5                 | 8.7           | 1.5            |               | 3.4            |
| 34/7-26SR | NOR    | 97030-154   | 4541.0      | 4541.0      | Core        |                        | 3.0          | 9.5                  | 3.8           | 1.9            |               | 3.8            |
| 34/7-26SR | NOR    | 97030-162   | 4557.0      | 4557.0      | Core        |                        | 5.0          | 6.5                  | 1.7           | 0.9            |               | 3.9            |
| 34/7-26SR | NOR    | 97030-171   | 4575.0      | 4575.0      | Core        |                        | 3.0          | 6.7                  | 2.1           | 1.0            |               | 3.6            |
| 34/7-26SR | NOR    | 97030-180   | 4596.0      | 4596.0      | Core        |                        | 5.0          | 13.6                 | 7.5           | 1.2            |               | 4.9            |
| 34/7-26SR | NOR    | 97030-181   | 4598.0      | 4598.0      | Core        |                        | 5.0          | 12.4                 | 8.1           | 0.7            |               | 3.6            |

**Table 3.5: Extraction and Liquid Chromatography Data**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | Lithology              | Rock Wt (Gm) | Extract Yield (mg/g) | SAT MPLC mg/g | ARO MPLC mg/g | NSO MPLC mg/g | Asph mg/g | Polars mg/g | TOC % |
|-----------|--------|-------------|-------------|-------------|-------------|------------------------|--------------|----------------------|---------------|---------------|---------------|-----------|-------------|-------|
| 34/7-26S  | NOR    | 97030-10    | 1000.0      | 1000.0      | Cuttings    | Sst, lt med gy, calc + | 10.0         | 4.9                  |               |               |               |           |             |       |
| 34/7-26S  | NOR    | 97030-53    | 2120.0      | 2120.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 23.0                 |               |               |               |           |             |       |
| 34/7-26S  | NOR    | 97030-76    | 3020.0      | 3020.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 20.8                 |               |               |               |           |             |       |
| 34/7-26S  | NOR    | 97030-84    | 3340.0      | 3340.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 11.1                 |               |               |               |           |             |       |
| 34/7-26S  | NOR    | 97030-85    | 3380.0      | 3380.0      | Cuttings    | Clyst, med gy +        | 10.0         | 18.8                 | 14.68         | 0.80          | 3.18          | 0.15      | 3.33        |       |
| 34/7-26S  | NOR    | 97030-100   | 3960.0      | 3960.0      | Cuttings    | Clyst, med gy +        | 8.0          | 7.1                  |               |               |               |           |             |       |
| 34/7-26S  | NOR    | 97030-101   | 3980.0      | 3980.0      | Cuttings    | Clyst, med gy +        | 10.0         | 8.0                  |               |               |               |           |             |       |
| 34/7-26S  | NOR    | 97030-104   | 4060.0      | 4060.0      | Cuttings    | Clyst, med gy +        | 10.0         | 6.8                  |               |               |               |           |             |       |
| 34/7-26SR | NOR    | 97030-116   | 4330.0      | 4330.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 19.3                 | 16.37         | 0.23          | 2.58          | 0.08      | 2.66        |       |
| 34/7-26SR | NOR    | 97030-120   | 4370.0      | 4370.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 16.6                 |               |               |               |           |             |       |
| 34/7-26SR | NOR    | 97030-122   | 4390.0      | 4390.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 16.0                 |               |               |               |           |             |       |
| 34/7-26SR | NOR    | 97030-124   | 4410.0      | 4410.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 14.8                 |               |               |               |           |             |       |
| 34/7-26SR | NOR    | 97030-126   | 4430.0      | 4430.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 17.4                 | 16.32         | 0.27          | 0.76          | 0.01      | 0.77        |       |
| 34/7-26SR | NOR    | 97030-131   | 4480.0      | 4480.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 19.0                 |               |               |               |           |             |       |
| 34/7-26SR | NOR    | 97030-133   | 4500.0      | 4500.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 17.7                 |               |               |               |           |             |       |
| 34/7-26SR | NOR    | 97030-134   | 4510.0      | 4510.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 16.8                 | 15.44         | 0.29          | 1.06          | 0.02      | 1.08        |       |
| 34/7-26SR | NOR    | 97030-147   | 4513.3      | 4513.3      | Core        |                        | 17.9         | 21.7                 | 17.36         | 2.36          | 1.62          | 0.37      | 1.99        |       |
| 34/7-26SR | NOR    | 97030-148   | 4516.5      | 4516.5      | Core        |                        | 20.4         | 13.1                 | 9.78          | 1.79          | 1.07          | 0.43      | 1.50        |       |
| 34/7-26SR | NOR    | 97030-149   | 4517.4      | 4517.4      | Core        |                        | 12.4         | 42.2                 | 31.35         | 6.93          | 3.49          | 0.42      | 3.91        |       |
| 34/7-26SR | NOR    | 97030-135   | 4518.0      | 4518.0      | Cuttings    | Clyst, lt olv gy +     | 10.0         | 21.3                 |               |               |               |           |             |       |
| 34/7-26SR | NOR    | 97030-136   | 4527.0      | 4527.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 29.0                 |               |               |               |           |             |       |
| 34/7-26SR | NOR    | 97030-150   | 4533.1      | 4533.1      | Core        |                        | 15.0         | 34.1                 | 23.35         | 6.94          | 3.26          | 0.55      | 3.81        |       |
| 34/7-26SR | NOR    | 97030-151   | 4535.0      | 4535.0      | Core        |                        | 11.0         | 68.2                 | 48.10         | 13.43         | 5.78          | 0.89      | 6.66        |       |
| 34/7-26SR | NOR    | 97030-137   | 4536.0      | 4536.0      | Cuttings    | Clyst, med dk gy +     | 10.0         | 31.4                 |               |               |               |           |             |       |
| 34/7-26SR | NOR    | 97030-152   | 4536.7      | 4536.7      | Core        |                        | 13.0         | 2.4                  | 1.69          | 0.22          | 0.41          | 0.04      | 0.45        |       |
| 34/7-26SR | NOR    | 97030-153   | 4538.7      | 4538.7      | Core        |                        | 12.0         | 13.5                 | 9.53          | 1.71          | 1.68          | 0.62      | 2.30        |       |
| 34/7-26SR | NOR    | 97030-154   | 4541.0      | 4541.0      | Core        |                        | 3.0          | 9.5                  | 3.43          | 1.91          | 2.82          | 1.34      | 4.16        | 5.78  |
| 34/7-26SR | NOR    | 97030-162   | 4557.0      | 4557.0      | Core        |                        | 5.0          | 6.5                  | 1.52          | 0.93          | 2.18          | 1.92      | 4.09        | 5.24  |
| 34/7-26SR | NOR    | 97030-171   | 4575.0      | 4575.0      | Core        |                        | 3.0          | 6.7                  | 1.63          | 1.09          | 2.34          | 1.61      | 3.94        | 5.28  |
| 34/7-26SR | NOR    | 97030-180   | 4596.0      | 4596.0      | Core        |                        | 5.0          | 13.6                 | 7.42          | 1.36          | 3.35          | 1.48      | 4.84        | 7.63  |
| 34/7-26SR | NOR    | 97030-181   | 4598.0      | 4598.0      | Core        |                        | 5.0          | 12.4                 | 8.05          | 0.84          | 2.43          | 1.08      | 3.50        | 2.75  |

Table 3.6a: Saturate GC Peak Height Data

| Well      | Depth (m) | Core ID   | Core Depth (m) | Core Type | Core Description   | Alkanes Present                                          | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive |
|-----------|-----------|-----------|----------------|-----------|--------------------|----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Well      | Depth (m) | Core ID   | Core Depth (m) | Core Type | Core Description   | Alkanes Present                                          | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive | Alkanes Present - sample contaminated by mud additive |
| 34/7-26S  | NOR       | 97030-85  | 3380.0 3380.0  | Cuttings  | Clyst, med gy +    | No Alkanes present - sample contaminated by mud additive |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-116 | 4330.0 4330.0  | Cuttings  | Clyst, med dk gy + | No Alkanes present - sample contaminated by mud additive |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-126 | 4430.0 4430.0  | Cuttings  | Clyst, med dk gy + | No Alkanes present - sample contaminated by mud additive |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-134 | 4510.0 4510.0  | Cuttings  | Clyst, med dk gy + | No Alkanes present - sample contaminated by mud additive |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-147 | 4513.3 4513.3  | Core      |                    | -                                                        | -                                                     | 25207                                                 | 14375                                                 | 7821                                                  | 6137                                                  | -                                                     | -                                                     | 16657                                                 | 0.94                                                  | 0.95                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-148 | 4516.5 4516.5  | Core      |                    | -                                                        | -                                                     | 76229                                                 | 48249                                                 | 29765                                                 | 19182                                                 | -                                                     | -                                                     | 53318                                                 | 0.99                                                  | 0.93                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-149 | 4517.4 4517.4  | Core      |                    | -                                                        | -                                                     | 50885                                                 | 34734                                                 | 21263                                                 | 15435                                                 | -                                                     | -                                                     | 34044                                                 | 0.99                                                  | 0.99                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-150 | 4533.1 4533.1  | Core      |                    | -                                                        | -                                                     | 76794                                                 | 53966                                                 | 32957                                                 | 19655                                                 | -                                                     | -                                                     | 65194                                                 | 0.98                                                  | 0.98                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-151 | 4535.0 4535.0  | Core      |                    | -                                                        | -                                                     | 42402                                                 | 31185                                                 | 17528                                                 | 10951                                                 | -                                                     | -                                                     | 33936                                                 | 0.99                                                  | 0.90                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-152 | 4536.7 4536.7  | Core      |                    | -                                                        | -                                                     | 14255                                                 | 3601                                                  | 2104                                                  | 1292                                                  | -                                                     | -                                                     | 12331                                                 | 0.96                                                  | 0.80                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-153 | 4538.7 4538.7  | Core      |                    | -                                                        | -                                                     | 55322                                                 | 27408                                                 | 15348                                                 | 7723                                                  | -                                                     | -                                                     | 34862                                                 | 0.96                                                  | 0.86                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-154 | 4541.0 4541.0  | Core      |                    | -                                                        | -                                                     | 64736                                                 | 33985                                                 | 17538                                                 | 16303                                                 | -                                                     | -                                                     | 48384                                                 | 0.92                                                  | 0.88                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-162 | 4557.0 4557.0  | Core      |                    | -                                                        | -                                                     | 23439                                                 | 9384                                                  | 10542                                                 | 26873                                                 | -                                                     | -                                                     | 39201                                                 | 0.84                                                  | 0.70                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-171 | 4575.0 4575.0  | Core      |                    | -                                                        | -                                                     | 12710                                                 | 5503                                                  | 3588                                                  | 5126                                                  | -                                                     | -                                                     | 14933                                                 | 0.72                                                  | 0.48                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-180 | 4596.0 4596.0  | Core      |                    | -                                                        | -                                                     | 25287                                                 | 5923                                                  | 3860                                                  | 6171                                                  | -                                                     | -                                                     | 8451                                                  | 0.76                                                  | 0.74                                                  |                                                       |                                                       |                                                       |
| 34/7-26SR | NOR       | 97030-181 | 4598.0 4598.0  | Core      |                    | -                                                        | -                                                     | 17166                                                 | 1421                                                  | 1042                                                  | 1750                                                  | -                                                     | -                                                     | 5800                                                  | 0.88                                                  | 0.76                                                  |                                                       |                                                       |                                                       |

**Table 3.6b: Aromatic GC Data - Peak Heights**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | Lithology          | 2MN<br>mV                                                                       | 1MN<br>mV | BiPh<br>mV | 2EN<br>mV | 1EN<br>mV | 2,6 +2,7 DMN<br>mV | 1,5 DMN<br>mV | 1,3,7 TMN<br>mV | 2,3,6 TMN<br>mV | 1,3,6 TMN<br>mV | 1,3,5 + 1,4,6 TMN<br>mV | P<br>mV | 3MP<br>mV | 2MP<br>mV | 9MP<br>mV | 1MP<br>mV |  |
|-----------|--------|-------------|-------------|-------------|-------------|--------------------|---------------------------------------------------------------------------------|-----------|------------|-----------|-----------|--------------------|---------------|-----------------|-----------------|-----------------|-------------------------|---------|-----------|-----------|-----------|-----------|--|
| 34/7-26S  | NOR    | 97030-85    | 3380.00     | 3380.00     | Cuttings    | Clyst, med gy +    | Aromatic compounds not identified - sample heavily contaminated by mud additive |           |            |           |           |                    |               |                 |                 |                 |                         |         |           |           |           |           |  |
| 34/7-26SR | NOR    | 97030-116   | 4330.00     | 4330.00     | Cuttings    | Clyst, med dk gy + | Aromatic compounds not identified - sample heavily contaminated by mud additive |           |            |           |           |                    |               |                 |                 |                 |                         |         |           |           |           |           |  |
| 34/7-26SR | NOR    | 97030-126   | 4430.00     | 4430.00     | Cuttings    | Clyst, med dk gy + | Aromatic compounds not identified - sample heavily contaminated by mud additive |           |            |           |           |                    |               |                 |                 |                 |                         |         |           |           |           |           |  |
| 34/7-26SR | NOR    | 97030-134   | 4510.00     | 4510.00     | Cuttings    | Clyst, med dk gy + | Aromatic compounds not identified - sample heavily contaminated by mud additive |           |            |           |           |                    |               |                 |                 |                 |                         |         |           |           |           |           |  |
| 34/7-26SR | NOR    | 97030-147   | 4513.30     | 4513.30     | Core        |                    |                                                                                 |           | 36         | 44        | 49        | 603                | 267           | 583             | 883             | 1152            | 504                     | 2022    | 2266      | 1745      | 3701      | 3449      |  |
| 34/7-26SR | NOR    | 97030-148   | 4516.50     | 4516.50     | Core        |                    | 235                                                                             | 419       | 482        | 526       | 476       | 9687               | 2652          | 5718            | 7822            | 9573            | 5406                    | 8405    | 7909      | 3982      | 10936     | 8686      |  |
| 34/7-26SR | NOR    | 97030-149   | 4517.40     | 4517.40     | Core        |                    | 122                                                                             | 218       | 223        | 236       | 195       | 2203               | 950           | 1814            | 2441            | 3151            | 1676                    | 3246    | 2761      | 1651      | 4047      | 2889      |  |
| 34/7-26SR | NOR    | 97030-150   | 4533.10     | 4533.10     | Core        |                    | 16                                                                              | 54        | 48         | 60        | 52        | 807                | 282           | 557             | 690             | 890             | 419                     | 816     | 964       | 481       | 1378      | 993       |  |
| 34/7-26SR | NOR    | 97030-151   | 4535.04     | 4535.04     | Core        |                    | 92                                                                              | 184       | 178        | 173       | 141       | 1617               | 727           | 1288            | 1670            | 2131            | 1000                    | 1430    | 1299      | 802       | 1802      | 1379      |  |
| 34/7-26SR | NOR    | 97030-152   | 4536.70     | 4536.70     | Core        |                    |                                                                                 |           |            |           |           | 270                | 136           | 1474            | 689             | 1773            | 1191                    | 2766    | 1246      | 648       | 1396      | 908       |  |
| 34/7-26SR | NOR    | 97030-153   | 4538.70     | 4538.70     | Core        |                    | 85                                                                              | 179       | 191        | 233       | 210       | 2673               | 979           | 2039            | 2883            | 3519            | 2006                    | 6021    | 4623      | 3130      | 6422      | 5060      |  |
| 34/7-26SR | NOR    | 97030-154   | 4541.00     | 4541.00     | Core        |                    | 21                                                                              | 81        | 89         | 149       | 150       | 1647               | 728           | 1726            | 2531            | 3041            | 1705                    | 6429    | 5206      | 2947      | 7284      | 5690      |  |
| 34/7-26SR | NOR    | 97030-162   | 4557.00     | 4557.00     | Core        |                    | 60                                                                              | 129       | 45         | 182       | 230       | 801                | 375           | 932             | 690             | 608             | 400                     | 736     | 275       | 899       | 739       | 431       |  |
| 34/7-26SR | NOR    | 97030-171   | 4575.00     | 4575.00     | Core        |                    | 20                                                                              | 58        | 28         | 117       | 169       | 647                | 351           | 815             | 483             | 529             | 348                     | 573     | 142       | 727       | 678       | 349       |  |
| 34/7-26SR | NOR    | 97030-180   | 4596.00     | 4596.00     | Core        |                    | 461                                                                             | 550       | 56         | 251       | 336       | 1864               | 516           | 663             | 736             | 697             | 737                     | 1329    | 979       | 291       | 1340      | 474       |  |
| 34/7-26SR | NOR    | 97030-181   | 4598.00     | 4598.00     | Core        |                    |                                                                                 |           |            | 69        | 104       | 1020               | 235           | 505             | 1000            | 531             | 501                     | 1437    | 853       | 278       | 1352      | 515       |  |

**Table 3.7a: Alkane GC/MS - Peak Height Data and Calculated Ratios**

| Well      | Location | Sample    | Peak 1  | Peak 2  | Sample | Sample | m/z (9) |       |       |       |       |       |       |      |        |       |
|-----------|----------|-----------|---------|---------|--------|--------|---------|-------|-------|-------|-------|-------|-------|------|--------|-------|
|           |          |           |         |         |        |        | Q       | A     | B     | Z     | C     | C,    | X     | D    | E      | F     |
| 34/7-26SR | NOR      | 97030-147 | 4513.30 | 4513.30 | Core   |        | 5164    | 11896 | 9136  | 15595 | 24736 | 9584  | 5589  | 2592 | 59456  | 5264  |
| 34/7-26SR | NOR      | 97030-148 | 4516.50 | 4516.50 | Core   |        | 4136    | 10114 | 6828  | 11353 | 18784 | 7904  | 4422  | 2048 | 47872  | 4294  |
| 34/7-26SR | NOR      | 97030-149 | 4517.40 | 4517.40 | Core   |        | 6012    | 13310 | 9620  | 16562 | 27840 | 11376 | 6135  | 2576 | 64576  | 5792  |
| 34/7-26SR | NOR      | 97030-150 | 4533.10 | 4533.10 | Core   |        | 10615   | 25824 | 18848 | 31064 | 57216 | 23648 | 11330 | 4640 | 128768 | 11200 |
| 34/7-26SR | NOR      | 97030-151 | 4535.04 | 4535.04 | Core   |        | 9295    | 23616 | 17297 | 28232 | 49664 | 19552 | 9745  | 4256 | 118400 | 9776  |
| 34/7-26SR | NOR      | 97030-152 | 4536.70 | 4536.70 | Core   |        | 823     | 2630  | 2074  | 2995  | 6176  | 2360  | 1099  | 568  | 13392  | 1120  |
| 34/7-26SR | NOR      | 97030-153 | 4538.70 | 4538.70 | Core   |        | 4960    | 13580 | 10272 | 15360 | 25728 | 10816 | 5228  | 3130 | 61184  | 5440  |
| 34/7-26SR | NOR      | 97030-154 | 4541.00 | 4541.00 | Core   |        | 1460    | 5784  | 6816  | 4696  | 14656 | 4984  | 2304  | 4288 | 33536  | 3966  |
| 34/7-26SR | NOR      | 97030-162 | 4557.00 | 4557.00 | Core   |        | 277     | 893   | 3235  | 440   | 3872  | 1208  | 1416  | 2036 | 9681   | 2264  |
| 34/7-26SR | NOR      | 97030-171 | 4575.00 | 4575.00 | Core   |        | 420     | 2407  | 5151  | 1024  | 8400  | 3792  | 3208  | 5259 | 31572  | 4706  |
| 34/7-26SR | NOR      | 97030-180 | 4596.00 | 4596.00 | Core   |        | 934     | 6392  | 11697 | 1544  | 16832 | 7184  | 5936  | 9388 | 54976  | 9293  |
| 34/7-26SR | NOR      | 97030-181 | 4598.00 | 4598.00 | Core   |        | 617     | 1861  | 2156  | 1431  | 4960  | 1576  | 926   | 1113 | 9312   | 1184  |

**Table 3.7a: Alkane GC/MS - Peak Height Data and Calculated Ratios**

| Well      | State | Sample    | C <sub>10</sub> (m/z 142) | C <sub>11</sub> (m/z 154) | Type | Depth (m) | C <sub>12</sub> (m/z 166) Ratios |       |       |       |       |       |
|-----------|-------|-----------|---------------------------|---------------------------|------|-----------|----------------------------------|-------|-------|-------|-------|-------|
|           |       |           |                           |                           |      |           | A                                | J     | Q     | R     | S     | T     |
| 34/7-26SR | NOR   | 97030-147 | 4513.30                   | 4513.30                   | Core |           | 16789                            | 9376  | 6792  | 11424 | 8384  | 9804  |
| 34/7-26SR | NOR   | 97030-148 | 4516.50                   | 4516.50                   | Core |           | 12876                            | 7191  | 5488  | 8824  | 6334  | 7533  |
| 34/7-26SR | NOR   | 97030-149 | 4517.40                   | 4517.40                   | Core |           | 19005                            | 10352 | 7424  | 13328 | 9680  | 10245 |
| 34/7-26SR | NOR   | 97030-150 | 4533.10                   | 4533.10                   | Core |           | 35264                            | 19648 | 14976 | 25496 | 19067 | 20992 |
| 34/7-26SR | NOR   | 97030-151 | 4535.04                   | 4535.04                   | Core |           | 32322                            | 17056 | 13456 | 21792 | 17280 | 18630 |
| 34/7-26SR | NOR   | 97030-152 | 4536.70                   | 4536.70                   | Core |           | 2624                             | 1508  | 1091  | 1869  | 1397  | 1476  |
| 34/7-26SR | NOR   | 97030-153 | 4538.70                   | 4538.70                   | Core |           | 15870                            | 14716 | 6632  | 10672 | 7976  | 13211 |
| 34/7-26SR | NOR   | 97030-154 | 4541.00                   | 4541.00                   | Core |           | 5605                             | 15616 | 2456  | 4699  | 2433  | 14400 |
| 34/7-26SR | NOR   | 97030-162 | 4557.00                   | 4557.00                   | Core |           | 5224                             | 5728  | 520   | 1728  | 928   | 5353  |
| 34/7-26SR | NOR   | 97030-171 | 4575.00                   | 4575.00                   | Core |           | 9848                             | 14864 | 986   | 3219  | 1366  | 11752 |
| 34/7-26SR | NOR   | 97030-180 | 4596.00                   | 4596.00                   | Core |           | 22042                            | 37824 | 3508  | 7648  | 3416  | 28287 |
| 34/7-26SR | NOR   | 97030-181 | 4598.00                   | 4598.00                   | Core |           | 2211                             | 3256  | 607   | 1213  | 761   | 2390  |

| C <sub>13</sub> (m/z 218) Ratios |       |       |
|----------------------------------|-------|-------|
| 27bbS                            | 28bbS | 29bbS |
| B                                | D     | F     |
| 15059                            | 9995  | 13502 |
| 11593                            | 7450  | 10809 |
| 16552                            | 10928 | 16292 |
| 33884                            | 20474 | 33600 |
| 30874                            | 19232 | 28896 |
| 2494                             | 1561  | 2358  |
| 14495                            | 9309  | 13072 |
| 4952                             | 3152  | 4143  |
| 1764                             | 984   | 1582  |
| 2888                             | 1970  | 2408  |
| 6952                             | 5125  | 5821  |
| 1333                             | 947   | 1432  |

**Table 3.7a: Alkane GC/MS - Peak Height Data and Calculated Ratios**

| Sample    | Depth (m) | Core      | Height  | Height  | Type | Calculated Ratios |       |       |       |       |       |      |      |      |      |      |
|-----------|-----------|-----------|---------|---------|------|-------------------|-------|-------|-------|-------|-------|------|------|------|------|------|
|           |           |           |         |         |      | G1                | G2    | J1    | J2    | K1    | K2    | L1   | L2   | M1   | M2   | I    |
| 34/7-26SI | NOR       | 97030-147 | 4513.30 | 4513.30 | Core | 21216             | 14602 | 12384 | 8320  | 8592  | 5808  | 4080 | 2512 | 2960 | 1808 | 1893 |
| 34/7-26SI | NOR       | 97030-148 | 4516.50 | 4516.50 | Core | 17408             | 11072 | 10896 | 7616  | 6992  | 4848  | 3600 | 2272 | 2592 | 1558 | 1952 |
| 34/7-26SI | NOR       | 97030-149 | 4517.40 | 4517.40 | Core | 24922             | 16670 | 15312 | 10448 | 10352 | 6976  | 5312 | 3360 | 3856 | 2160 | 2608 |
| 34/7-26SI | NOR       | 97030-150 | 4533.10 | 4533.10 | Core | 47888             | 30528 | 27936 | 18560 | 19264 | 12672 | 9616 | 6048 | 7072 | 3693 | 4976 |
| 34/7-26SI | NOR       | 97030-151 | 4535.04 | 4535.04 | Core | 42560             | 27584 | 24128 | 17184 | 16128 | 10240 | 8112 | 5200 | 5600 | 3440 | 4352 |
| 34/7-26SI | NOR       | 97030-152 | 4536.70 | 4536.70 | Core | 5166              | 3168  | 3107  | 1937  | 2032  | 1271  | 978  | 528  | 779  | 448  | 527  |
| 34/7-26SI | NOR       | 97030-153 | 4538.70 | 4538.70 | Core | 20394             | 14140 | 11952 | 8576  | 8336  | 5408  | 3936 | 2816 | 2832 | 2064 | 2320 |
| 34/7-26SI | NOR       | 97030-154 | 4541.00 | 4541.00 | Core | 7536              | 7088  | 3592  | 3986  | 2880  | 4128  | 1568 | 2296 | 1880 | 2944 | 944  |
| 34/7-26SI | NOR       | 97030-162 | 4557.00 | 4557.00 | Core | 3240              | 4527  | 1344  | 1896  | 1008  | 1592  | 561  | 768  | 664  | 864  | 592  |
| 34/7-26SI | NOR       | 97030-171 | 4575.00 | 4575.00 | Core | 5896              | 8704  | 2048  | 3328  | 1911  | 2899  | 992  | 1456 | 1136 | 1840 | 907  |
| 34/7-26SI | NOR       | 97030-180 | 4596.00 | 4596.00 | Core | 14768             | 18790 | 4352  | 7639  | 3920  | 6640  | 1912 | 3344 | 3096 | 5440 | 1888 |
| 34/7-26SI | NOR       | 97030-181 | 4598.00 | 4598.00 | Core | 3480              | 2960  | 1936  | 1592  | 1360  | 1168  | 791  | 688  | 615  | 727  | 520  |

**Table 3.7a: Alkane GC/MS - Peak Height Data and Calculated Ratios**

| Well      | Formation | Sample    | Peak    | Height  | Type | Group 1   |           |       |      |      |      | Group 2 |       |             |       |
|-----------|-----------|-----------|---------|---------|------|-----------|-----------|-------|------|------|------|---------|-------|-------------|-------|
|           |           |           |         |         |      | 25nor28ab | 25nor30ab | 23/3  | 25/3 | 24/4 | 26/3 | 27dbR   | 27aaS | 27bbR+29dbS | 29dbR |
|           |           |           |         |         |      |           |           | P     | R    | S    | T    | B       | G     | H           | K     |
| 34/7-26SI | NOR       | 97030-147 | 4513.30 | 4513.30 | Core | -         | -         | 6514  | 2589 | 1918 | 4640 | 10762   | 11151 | 20858       | 6992  |
| 34/7-26SI | NOR       | 97030-148 | 4516.50 | 4516.50 | Core | -         | -         | 5256  | 1896 | 1432 | 3336 | 8240    | 8656  | 15939       | 5490  |
| 34/7-26SI | NOR       | 97030-149 | 4517.40 | 4517.40 | Core | -         | -         | 6935  | 2862 | 2094 | 4936 | 11755   | 12594 | 22432       | 7944  |
| 34/7-26SI | NOR       | 97030-150 | 4533.10 | 4533.10 | Core | -         | -         | 12980 | 4896 | 3651 | 8820 | 21931   | 25119 | 44226       | 15120 |
| 34/7-26SI | NOR       | 97030-151 | 4535.04 | 4535.04 | Core | -         | -         | 12234 | 4640 | 3210 | 8123 | 20162   | 21494 | 40256       | 14224 |
| 34/7-26SI | NOR       | 97030-152 | 4536.70 | 4536.70 | Core | -         | -         | 1211  | 406  | 261  | 794  | 1485    | 1818  | 3263        | 1008  |
| 34/7-26SI | NOR       | 97030-153 | 4538.70 | 4538.70 | Core | -         | -         | 6592  | 2520 | 1801 | 4978 | 10187   | 13071 | 19047       | 7009  |
| 34/7-26SI | NOR       | 97030-154 | 4541.00 | 4541.00 | Core | -         | -         | 2173  | 706  | 450  | 2027 | 4006    | 8034  | 6970        | 3688  |
| 34/7-26SI | NOR       | 97030-162 | 4557.00 | 4557.00 | Core | -         | -         | 442   | 254  | 152  | 391  | 4712    | 2770  | 4592        | 3065  |
| 34/7-26SI | NOR       | 97030-171 | 4575.00 | 4575.00 | Core | -         | -         | 706   | 302  | 268  | 809  | 9258    | 6664  | 8077        | 5784  |
| 34/7-26SI | NOR       | 97030-180 | 4596.00 | 4596.00 | Core | -         | -         | 1781  | 665  | 431  | 1861 | 19913   | 17312 | 16640       | 12272 |
| 34/7-26SI | NOR       | 97030-181 | 4598.00 | 4598.00 | Core | -         | -         | 1176  | 350  | 307  | 727  | 1739    | 2180  | 2496        | 1216  |

**Table 3.7a: Alkane GC/MS - Peak Height Data and Calculated Ratios**

| Well      | Status | Sample    | 27bbR   | 28bbR   | 29bbR | 27bbR | 28bbR | 29bbR | 30bbR | 30bbS |
|-----------|--------|-----------|---------|---------|-------|-------|-------|-------|-------|-------|
|           |        |           |         |         |       | A     | C     | E     | G     | H     |
| 34/7-26SR | NOR    | 97030-147 | 4513.30 | 4513.30 | Core  | 22400 | 12883 | 17067 | 4999  | 5115  |
| 34/7-26SR | NOR    | 97030-148 | 4516.50 | 4516.50 | Core  | 17933 | 11041 | 13755 | 4116  | 4027  |
| 34/7-26SR | NOR    | 97030-149 | 4517.40 | 4517.40 | Core  | 23615 | 15362 | 20423 | 5785  | 5746  |
| 34/7-26SR | NOR    | 97030-150 | 4533.10 | 4533.10 | Core  | 48960 | 29568 | 40448 | 11465 | 11289 |
| 34/7-26SR | NOR    | 97030-151 | 4535.04 | 4535.04 | Core  | 43001 | 26719 | 33728 | 9956  | 10229 |
| 34/7-26SR | NOR    | 97030-152 | 4536.70 | 4536.70 | Core  | 3635  | 2288  | 3114  | 896   | 912   |
| 34/7-26SR | NOR    | 97030-153 | 4538.70 | 4538.70 | Core  | 20729 | 13200 | 16680 | 4910  | 5071  |
| 34/7-26SR | NOR    | 97030-154 | 4541.00 | 4541.00 | Core  | 7728  | 4704  | 6050  | 1348  | 2723  |
| 34/7-26SR | NOR    | 97030-162 | 4557.00 | 4557.00 | Core  | 3516  | 1616  | 2186  | 656   | 1106  |
| 34/7-26SR | NOR    | 97030-171 | 4575.00 | 4575.00 | Core  | 6219  | 3840  | 3544  | 608   | 1400  |
| 34/7-26SR | NOR    | 97030-180 | 4596.00 | 4596.00 | Core  | 13564 | 8768  | 8437  | 1244  | 3253  |
| 34/7-26SR | NOR    | 97030-181 | 4598.00 | 4598.00 | Core  | 2444  | 1392  | 1856  | 502   | 635   |

**Table 3.7a: Alkane GC/MS - Peak Height Data and Calculated Ratios**

| Sample    | Field | Sample ID | Peak #  | Peak Height | Sample Type | Hop/Ster | %TS   | %ZvsC | %HOP35vs34 | %Hop32S/S+R | %TriHop | %DiaSt27 |
|-----------|-------|-----------|---------|-------------|-------------|----------|-------|-------|------------|-------------|---------|----------|
| 34/7-26SR | NOR   | 97030-147 | 4513.30 | 4513.30     | Core        | 5.47     | 56.56 | 38.67 | 41.97      | 59.81       | 7.99    | 52.72    |
| 34/7-26SR | NOR   | 97030-148 | 4516.50 | 4516.50     | Core        | 5.70     | 59.70 | 37.67 | 41.41      | 58.86       | 7.95    | 52.62    |
| 34/7-26SR | NOR   | 97030-149 | 4517.40 | 4517.40     | Core        | 5.47     | 58.05 | 37.30 | 40.96      | 59.44       | 8.52    | 53.45    |
| 34/7-26SR | NOR   | 97030-150 | 4533.10 | 4533.10     | Core        | 5.24     | 57.81 | 35.19 | 40.73      | 60.08       | 7.62    | 51.00    |
| 34/7-26SR | NOR   | 97030-151 | 4535.04 | 4535.04     | Core        | 5.21     | 57.72 | 36.24 | 40.44      | 58.40       | 7.28    | 51.15    |
| 34/7-26SR | NOR   | 97030-152 | 4536.70 | 4536.70     | Core        | 7.54     | 55.91 | 32.66 | 44.90      | 61.60       | 5.79    | 51.27    |
| 34/7-26SR | NOR   | 97030-153 | 4538.70 | 4538.70     | Core        | 5.83     | 56.93 | 37.38 | 42.03      | 58.22       | 7.50    | 52.26    |
| 34/7-26SR | NOR   | 97030-154 | 4541.00 | 4541.00     | Core        | 9.12     | 45.90 | 24.27 | 55.52      | 47.40       | 4.17    | 53.09    |
| 34/7-26SR | NOR   | 97030-162 | 4557.00 | 4557.00     | Core        | 8.98     | 21.63 | 10.20 | 53.48      | 41.48       | 2.78    | 74.76    |
| 34/7-26SR | NOR   | 97030-171 | 4575.00 | 4575.00     | Core        | 12.21    | 31.85 | 10.87 | 54.87      | 38.10       | 1.31    | 77.32    |
| 34/7-26SR | NOR   | 97030-180 | 4596.00 | 4596.00     | Core        | 10.06    | 35.34 | 8.40  | 61.89      | 36.29       | 1.67    | 76.02    |
| 34/7-26SR | NOR   | 97030-181 | 4598.00 | 4598.00     | Core        | 10.06    | 46.33 | 22.39 | 47.57      | 54.88       | 6.21    | 62.39    |

**Hop/Ster** =  $27Ts + 27Tm + 28ab + 29ab + 29ba + 30ab + 30ba + \text{homohopanes} / 27bbS + 28bbS + 29bbS$   
**%TS** =  $100 * 27Ts / (27Ts + 27Tm)$   
**%ZvsC** =  $100 * 28ab / (28ab + 29ab)$   
**%HOP35vs34** =  $100 * (35abS + 35abR) / (34abS + 34abR + 35abS + 35abR)$   
**%Hop32S/S+R** =  $100 * 32abS / (32abS + 32abR)$   
**%TriHop** =  $100 * 24/3 / (24/3 + 30ab)$   
**%DiaSt27** =  $100 * 27dbS / (27dbS + 27bbS)$

**Table 3.7a: Alkane GC/MS - Peak Height Data and Calculated Ratios**

| Sample    | Core | Sample    | Peak    | Height  | Core | St27 | St28 | St29 | 29S/S+R | 29bb/aa+bb |
|-----------|------|-----------|---------|---------|------|------|------|------|---------|------------|
| 34/7-26SR | NOR  | 97030-147 | 4513.30 | 4513.30 | Core | 39   | 26   | 35   | 41.69   | 54.41      |
| 34/7-26SR | NOR  | 97030-148 | 4516.50 | 4516.50 | Core | 39   | 25   | 36   | 41.95   | 53.79      |
| 34/7-26SR | NOR  | 97030-149 | 4517.40 | 4517.40 | Core | 38   | 25   | 37   | 42.05   | 56.56      |
| 34/7-26SR | NOR  | 97030-150 | 4533.10 | 4533.10 | Core | 39   | 23   | 38   | 42.27   | 55.34      |
| 34/7-26SR | NOR  | 97030-151 | 4535.04 | 4535.04 | Core | 39   | 24   | 37   | 43.19   | 54.91      |
| 34/7-26SR | NOR  | 97030-152 | 4536.70 | 4536.70 | Core | 39   | 24   | 37   | 42.65   | 55.99      |
| 34/7-26SR | NOR  | 97030-153 | 4538.70 | 4538.70 | Core | 39   | 25   | 35   | 37.95   | 48.45      |
| 34/7-26SR | NOR  | 97030-154 | 4541.00 | 4541.00 | Core | 40   | 26   | 34   | 20.38   | 29.73      |
| 34/7-26SR | NOR  | 97030-162 | 4557.00 | 4557.00 | Core | 41   | 23   | 37   | 16.98   | 31.14      |
| 34/7-26SR | NOR  | 97030-171 | 4575.00 | 4575.00 | Core | 40   | 27   | 33   | 13.58   | 26.47      |
| 34/7-26SR | NOR  | 97030-180 | 4596.00 | 4596.00 | Core | 39   | 29   | 33   | 16.16   | 25.81      |
| 34/7-26SR | NOR  | 97030-181 | 4598.00 | 4598.00 | Core | 36   | 26   | 39   | 27.52   | 39.71      |

**%St27** =  $100 \times 27bbS / (27bbS + 28bbs + 29bbS)$

**%St28** =  $100 \times 28bbS / (27bbS + 28bbs + 29bbS)$

**%St29** =  $100 \times 29bbS / (27bbS + 28bbs + 29bbS)$

**%29S/S+R** =  $100 \times (29aaS + 29bbS) / (29aaS + 29bbS + 29aaR + 29bbR)$

**%29bb/aa+bb** =  $100 \times (29bbS + 29bbR) / (29aaS + 29aaR + 29bbS + 29bbR)$

**Table 3.7b: Aromatic GC/MS - Peak Height Data and Calculated Ratios**

| Well name | Nation | Sample name | Upper depth | Lower depth | Sample type | 253 Ion |       |       |
|-----------|--------|-------------|-------------|-------------|-------------|---------|-------|-------|
|           |        |             |             |             |             | A1      | H1    | I1    |
| 34/7-26SR | NOR    | 97030-147   | 4513.30     | 4513.30     | Core        | 6896    | 3239  | 3051  |
| 34/7-26SR | NOR    | 97030-148   | 4516.50     | 4516.50     | Core        | 7848    | 3696  | 1996  |
| 34/7-26SR | NOR    | 97030-149   | 4517.40     | 4517.40     | Core        | 11391   | 5581  | 3367  |
| 34/7-26SR | NOR    | 97030-150   | 4533.10     | 4533.10     | Core        | 3617    | 1572  | 665   |
| 34/7-26SR | NOR    | 97030-151   | 4535.04     | 4535.04     | Core        | 4546    | 1733  | 731   |
| 34/7-26SR | NOR    | 97030-152   | 4536.70     | 4536.70     | Core        | 457     | 436   | 450   |
| 34/7-26SR | NOR    | 97030-153   | 4538.70     | 4538.70     | Core        | 7221    | 4362  | 4279  |
| 34/7-26SR | NOR    | 97030-154   | 4541.00     | 4541.00     | Core        | 3981    | 5870  | 3896  |
| 34/7-26SR | NOR    | 97030-162   | 4557.00     | 4557.00     | Core        | 11559   | 23200 | 11590 |
| 34/7-26SR | NOR    | 97030-171   | 4575.00     | 4575.00     | Core        | 9259    | 43648 | 14688 |
| 34/7-26SR | NOR    | 97030-180   | 4596.00     | 4596.00     | Core        | 18944   | 71168 | 29504 |
| 34/7-26SR | NOR    | 97030-181   | 4598.00     | 4598.00     | Core        | 5584    | 4320  | 2207  |

**Table 3.7b: Aromatic GC/MS - Peak Height Data and Calculated Ratios**

| Well name | Nation | Sample name | Upper depth | Lower depth | Sample type | 231 Ion |       |       |       |       |       |       |
|-----------|--------|-------------|-------------|-------------|-------------|---------|-------|-------|-------|-------|-------|-------|
|           |        |             |             |             |             | a1      | b1    | c1    | d1    | e1    | f1    | g1    |
| 34/7-26SR | NOR    | 97030-147   | 4513.30     | 4513.30     | Core        | 19872   | 22176 | 8954  | 25783 | 15547 | 14747 | 10965 |
| 34/7-26SR | NOR    | 97030-148   | 4516.50     | 4516.50     | Core        | 23296   | 24128 | 10764 | 30726 | 18636 | 17541 | 13057 |
| 34/7-26SR | NOR    | 97030-149   | 4517.40     | 4517.40     | Core        | 33536   | 35008 | 17490 | 49368 | 30933 | 28169 | 23008 |
| 34/7-26SR | NOR    | 97030-150   | 4533.10     | 4533.10     | Core        | 10335   | 12077 | 6438  | 17472 | 10253 | 10042 | 7688  |
| 34/7-26SR | NOR    | 97030-151   | 4535.04     | 4535.04     | Core        | 13408   | 12618 | 7565  | 21486 | 12332 | 11842 | 8719  |
| 34/7-26SR | NOR    | 97030-152   | 4536.70     | 4536.70     | Core        | 4547    | 5519  | 6269  | 11814 | 7029  | 6249  | 4912  |
| 34/7-26SR | NOR    | 97030-153   | 4538.70     | 4538.70     | Core        | 31328   | 31477 | 10622 | 30504 | 17154 | 18399 | 12902 |
| 34/7-26SR | NOR    | 97030-154   | 4541.00     | 4541.00     | Core        | 19584   | 19566 | 5708  | 15060 | 8016  | 9180  | 6059  |
| 34/7-26SR | NOR    | 97030-162   | 4557.00     | 4557.00     | Core        | 3948    | 1336  | 4112  | 7928  | 3052  | 3993  | 2375  |
| 34/7-26SR | NOR    | 97030-171   | 4575.00     | 4575.00     | Core        | 3966    | 2441  | 5238  | 12290 | 3572  | 6816  | 2800  |
| 34/7-26SR | NOR    | 97030-180   | 4596.00     | 4596.00     | Core        | 10432   | 4464  | 8812  | 16385 | 6199  | 9632  | 4840  |
| 34/7-26SR | NOR    | 97030-181   | 4598.00     | 4598.00     | Core        | 3784    | 2436  | 1393  | 2392  | 937   | 1314  | 698   |

Tab. .7b: Aromatic GC/MS - Peak Height Data and Calculated Ratios

| Well name | Nation | Sample name | Upper depth | Lower depth | Sample type | 178 Ion | 192 Ion |        |        |        | 184 Ion | 198 Ion |          |        |
|-----------|--------|-------------|-------------|-------------|-------------|---------|---------|--------|--------|--------|---------|---------|----------|--------|
|           |        |             |             |             |             | P       | 3 MP    | 2 MP   | 9 MP   | 1 MP   | DBT     | 4 MDBT  | 3&2 MDBT | 1 MDBT |
| 34/7-26SR | NOR    | 97030-147   | 4513.30     | 4513.30     | Core        | 265728  | 121344  | 133120 | 238336 | 157952 | 93920   | 134137  | 59108    | 47882  |
| 34/7-26SR | NOR    | 97030-148   | 4516.50     | 4516.50     | Core        | 249088  | 131328  | 141312 | 254720 | 194302 | 99328   | 135411  | 60667    | 51766  |
| 34/7-26SR | NOR    | 97030-149   | 4517.40     | 4517.40     | Core        | 413184  | 205824  | 205056 | 397312 | 278528 | 162304  | 195840  | 93696    | 78720  |
| 34/7-26SR | NOR    | 97030-150   | 4533.10     | 4533.10     | Core        | 109696  | 52800   | 53440  | 104192 | 68864  | 41776   | 60652   | 25549    | 22270  |
| 34/7-26SR | NOR    | 97030-151   | 4535.04     | 4535.04     | Core        | 136960  | 61952   | 78336  | 126848 | 103040 | 59008   | 85232   | 35114    | 28658  |
| 34/7-26SR | NOR    | 97030-152   | 4536.70     | 4536.70     | Core        | 263141  | 73984   | 87296  | 144128 | 105344 | 80498   | 93806   | 32660    | 26873  |
| 34/7-26SR | NOR    | 97030-153   | 4538.70     | 4538.70     | Core        | 706560  | 276992  | 303104 | 529408 | 377856 | 258527  | 308203  | 136102   | 115415 |
| 34/7-26SR | NOR    | 97030-154   | 4541.00     | 4541.00     | Core        | 433120  | 133888  | 127232 | 286208 | 195072 | 184786  | 157696  | 72064    | 80896  |
| 34/7-26SR | NOR    | 97030-162   | 4557.00     | 4557.00     | Core        | 59346   | 17332   | 19582  | 37335  | 28833  | 28158   | 16440   | 10675    | 40276  |
| 34/7-26SR | NOR    | 97030-171   | 4575.00     | 4575.00     | Core        | 58688   | 17560   | 17821  | 42667  | 26735  | 30004   | 15038   | 9051     | 48609  |
| 34/7-26SR | NOR    | 97030-180   | 4596.00     | 4596.00     | Core        | 254464  | 65216   | 75776  | 195840 | 100096 | 71383   | 33453   | 22583    | 88579  |
| 34/7-26SR | NOR    | 97030-181   | 4598.00     | 4598.00     | Core        | 11319   | 32276   | 34411  | 88022  | 43343  | 23866   | 13563   | 8604     | 28744  |

**Tal 3.7b: Aromatic GC/MS - Peak Height Data and Calculated Ratios**

| Well name | Nation | Sample name | Upper depth | Lower depth | Sample type | MPI 1 | %Ro  | MDBT | MDBT/DBT | MDBT 2,3 | MDBT 4 | DBT/P |
|-----------|--------|-------------|-------------|-------------|-------------|-------|------|------|----------|----------|--------|-------|
| 34/7-26SR | NOR    | 97030-147   | 4513.30     | 4513.30     | Core        | 0.58  | 0.75 | 2.80 | 0.51     | 0.63     | 1.43   | 0.35  |
| 34/7-26SR | NOR    | 97030-148   | 4516.50     | 4516.50     | Core        | 0.59  | 0.75 | 2.62 | 0.52     | 0.61     | 1.36   | 0.40  |
| 34/7-26SR | NOR    | 97030-149   | 4517.40     | 4517.40     | Core        | 0.57  | 0.74 | 2.49 | 0.49     | 0.58     | 1.21   | 0.39  |
| 34/7-26SR | NOR    | 97030-150   | 4533.10     | 4533.10     | Core        | 0.56  | 0.74 | 2.72 | 0.53     | 0.61     | 1.45   | 0.38  |
| 34/7-26SR | NOR    | 97030-151   | 4535.04     | 4535.04     | Core        | 0.57  | 0.74 | 2.97 | 0.49     | 0.60     | 1.44   | 0.43  |
| 34/7-26SR | NOR    | 97030-152   | 4536.70     | 4536.70     | Core        | 0.47  | 0.68 | 3.49 | 0.33     | 0.41     | 1.17   | 0.31  |
| 34/7-26SR | NOR    | 97030-153   | 4538.70     | 4538.70     | Core        | 0.54  | 0.72 | 2.67 | 0.45     | 0.53     | 1.19   | 0.37  |
| 34/7-26SR | NOR    | 97030-154   | 4541.00     | 4541.00     | Core        | 0.43  | 0.66 | 1.95 | 0.44     | 0.39     | 0.85   | 0.43  |
| 34/7-26SR | NOR    | 97030-162   | 4557.00     | 4557.00     | Core        | 0.44  | 0.66 | 0.41 | 1.43     | 0.38     | 0.58   | 0.47  |
| 34/7-26SR | NOR    | 97030-171   | 4575.00     | 4575.00     | Core        | 0.41  | 0.65 | 0.31 | 1.62     | 0.30     | 0.50   | 0.51  |
| 34/7-26SR | NOR    | 97030-180   | 4596.00     | 4596.00     | Core        | 0.38  | 0.63 | 0.38 | 1.24     | 0.32     | 0.47   | 0.28  |
| 34/7-26SR | NOR    | 97030-181   | 4598.00     | 4598.00     | Core        | 0.70  | 0.82 | 0.47 | 1.20     | 0.36     | 0.57   | 2.11  |

**MPI 1** =  $1.5 \cdot (2MP + 3MP) / (1MP + 9MP + P)$

**%Ro** =  $0.6 \cdot MPI\ 1 + 0.4$

**MDR** =  $4MDBT / 1MDBT$

**MDR 1** =  $1MDBT / DBT$

**MDR 2,3** =  $2,3MDBT / DBT$

**MDR 4** =  $4MDBT / DBT$

|                           |              |                                                |             |           |                   |             |                    |                    |                |              |
|---------------------------|--------------|------------------------------------------------|-------------|-----------|-------------------|-------------|--------------------|--------------------|----------------|--------------|
| Analysis type:            |              | Vitrinite reflectance                          |             |           |                   |             |                    |                    |                |              |
| Well:                     |              | 34/7-26S                                       |             |           |                   |             |                    |                    |                |              |
| Number of samples:        |              | 20                                             |             |           |                   |             |                    |                    |                |              |
| Time period for analysis: |              | jun-98                                         |             |           |                   |             |                    |                    |                |              |
| Analysis performed by:    |              | Kristine Aasgaard, Institutt for energiteknikk |             |           |                   |             |                    |                    |                |              |
| Analysis ordered by:      |              | Saga Petroleum                                 |             |           |                   |             |                    |                    |                |              |
|                           |              |                                                |             |           |                   |             |                    |                    |                |              |
|                           |              |                                                |             |           |                   |             |                    |                    |                |              |
| IFE sample code           | Depth (mRKB) | Depth (mTVD)                                   | Sample type | Lithology | Vitr. refl. (%Rm) | Stand. dev. | Number of readings | Sample description | Sample quality | Sample prep. |
| 980591                    | 500          | 474                                            | DC          | CLYST     | 0.24              | 0.03        | 20                 | ooo--o             | M              | HF           |
| 980592                    | 720          | 670                                            | DC          | CLYST     | 0.23              | 0.04        | 20                 | ooo--o             | M              | HF           |
| 980593                    | 1000         | 840                                            | DC          | SST/CLYST | barren            | -           | -                  | -                  | -              | HF           |
| 980594                    | 1220         | 938                                            | DC          | CLYST     | 0.28              | 0.04        | 20                 | ooo--+             | M              | HF           |
| 980595                    | 1380         | 1008                                           | DC          | CLYST     | 0.29              | 0.03        | 5                  | -oo--+             | P              | HF           |
| 980596                    | 1680         | 1137                                           | DC          | CLYST     | 0.21              | 0.04        | 13                 | -oo--+             | M              | HF           |
| 980597                    | 1920         | 1239                                           | DC          | CLYST     | 0.23              | 0.03        | 14                 | -oo--o             | M              | HF           |
| 980598                    | 2200         | 1358                                           | DC          | CLYST     | 0.24              | 0.05        | 15                 | -oo-oo             | M              | HF           |
| 980599                    | 2440         | 1461                                           | DC          | CLYST     | 0.27              | 0.05        | 10                 | -oo-o+             | P              | HF           |
| 980600                    | 2700         | 1573                                           | DC          | CLYST     | 0.27              | 0.05        | 9                  | -oo-o+             | P              | HF           |
| 980601                    | 3020         | 1710                                           | DC          | SST/CLYST | 0.24              | 0.01        | 2                  | -oo--o             | P              | HF           |
| 980602                    | 3220         | 1796                                           | DC          | CLYST     | barren            | -           | -                  | -                  | -              | HF           |
| 980603                    | 3500         | 1917                                           | DC          | CLYST     | 0.38              | 0.06        | 8                  | -oo--o             | P              | HF           |
| 980604                    | 3740         | 2020                                           | DC          | CLYST     | 0.38              | 0.07        | 17                 | -oo--o             | P              | HF           |
| 980605                    | 4030         | 2147                                           | DC          | CLYST     | 0.40              | 0.06        | 20                 | ooo--o             | M              | HF           |
| 980606                    | 4270         | 2267                                           | DC          | CLYST/SST | 0.47              | 0.06        | 12                 | -oo--o             | P              | HF           |
| 980607                    | 4380         | 2345                                           | DC          | CLYST     | 0.40              | 0.05        | 21                 | ooo-o+             | M              | HF           |
| 980608                    | 4538.7       | 2345.7                                         | CORE        | SST/CLYST | 0.29              | 0.04        | 5                  | -o--o+             | P              | bulk         |
| 980609                    | 4563         | 2506                                           | CORE        | SST/CLYST | 0.50              | 0.05        | 6                  | -oo-o+             | P              | bulk         |
| 980610                    | 4587         | 2528                                           | CORE        | CLYST/SST | 0.55              | 0.06        | 11                 | -oo-o+             | P              | bulk         |

**Table 4.1: Vitrinite reflectance data**

|                           |                                                |              |             |           |                   |             |                    |                    |                |              |
|---------------------------|------------------------------------------------|--------------|-------------|-----------|-------------------|-------------|--------------------|--------------------|----------------|--------------|
| Analysis type:            | Vitrinite reflectance                          |              |             |           |                   |             |                    |                    |                |              |
| Well:                     | 34/7-26SR                                      |              |             |           |                   |             |                    |                    |                |              |
| Number of samples:        | 8                                              |              |             |           |                   |             |                    |                    |                |              |
| Time period for analysis: | jun-98                                         |              |             |           |                   |             |                    |                    |                |              |
| Analysis performed by:    | Kristine Aasgaard, Institutt for energiteknikk |              |             |           |                   |             |                    |                    |                |              |
| Analysis ordered by:      | Saga Petroleum                                 |              |             |           |                   |             |                    |                    |                |              |
|                           |                                                |              |             |           |                   |             |                    |                    |                |              |
|                           |                                                |              |             |           |                   |             |                    |                    |                |              |
| IFE sample code           | Depth (mRKB)                                   | Depth (mTVD) | Sample type | Lithology | Vitr. refl. (%Rm) | Stand. dev. | Number of readings | Sample description | Sample quality | Sample prep. |
| 980727                    | 4541                                           | 2485         | DC          | CLYST     | 0.54              | 0.1         | 10                 | -±0-0+             | P              | HF           |
| 980728                    | 4549                                           | 2493         | DC          | CLYST     | 0.52              | 0.04        | 20                 | 000-0+             | M              | HF           |
| 980729                    | 4557                                           | 2500         | DC          | CLYST     | 0.5               | 0.06        | 15                 | -000-0             | M              | HF           |
| 980730                    | 4567                                           | 2510         | DC          | CLYST     | 0.45              | 0.02        | 11                 | -000-+             | P              | HF           |
| 980731                    | 4575                                           | 2517         | DC          | CLYST     | 0.5               | 0.06        | 19                 | 000-++             | M              | HF           |
| 980732                    | 4583                                           | 2525         | DC          | CLYST     | 0.5               | 0.05        | 5                  | -±0-++             | P              | HF           |
| 980733                    | 4596                                           | 2537         | DC          | CLYST     | 0.5               | 0.06        | 7                  | -±0-++             | P              | HF           |
| 980734                    | 4598                                           | 2539         | DC          | CLYST     | barren            | -           | -                  | -                  | -              | HF           |

**Table 4.1: Vitrinite reflectance data**

# Legend to vitrinite reflectance data table

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| SST   | sandstone                                                            |
| SLST  | siltstone                                                            |
| CLYST | claystone                                                            |
| SH    | shale                                                                |
| LST   | limestone                                                            |
| COAL  | coal                                                                 |
| HF    | sample treated with hydrofluoric acid prior to epoxy resin embedding |
| DCM   | sample treated with dichloromethane prior to epoxy resin embedding   |
| bulk  | untreated sample prior to epoxy resin embedding                      |
| G     | Good quality sample                                                  |
| M     | Moderate quality sample                                              |
| P     | Poor quality sample                                                  |
| st    | Sample is stained                                                    |

|        |                     |   |                             |
|--------|---------------------|---|-----------------------------|
| ooooo  | Sample description: | 1 | Abundance of vitrinite      |
| 123456 |                     | 2 | Identification of vitrinite |
|        |                     | 3 | Type of vitrinite           |
|        |                     | 4 | Vitrinite fragment size     |
|        |                     | 5 | Vitrinite surface quality   |
|        |                     | 6 | Abundance of pyrite         |

|   |                                                      |
|---|------------------------------------------------------|
| - | may give too low vitrinite reflectance sample value  |
| o | reliable vitrinite reflectance sample value          |
| + | may give too high vitrinite reflectance sample value |

**Table 5.1: Headspace Gas Analysis**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | C1<br>uL/Kg rock | C2<br>uL/Kg rock | C3<br>uL/Kg rock | iC4<br>uL/Kg rock | nC4<br>uL/Kg rock | C5+<br>uL/Kg rock |
|-----------|--------|-------------|-------------|-------------|-------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| 34/7-26S  | NOR    | 97030-1     | 760.0       | 760.0       | Cuttings    | 6859.64          | 9.16             | 6.53             |                   |                   | 24.91             |
| 34/7-26S  | NOR    | 97030-2     | 780.0       | 780.0       | Cuttings    | 9241.89          | 10.88            | 7.62             |                   |                   | 7.23              |
| 34/7-26S  | NOR    | 97030-3     | 820.0       | 820.0       | Cuttings    | 6148.10          | 8.46             | 5.08             |                   |                   | 3.49              |
| 34/7-26S  | NOR    | 97030-4     | 860.0       | 860.0       | Cuttings    | 4030.36          | 7.55             | 3.67             |                   |                   | 1.58              |
| 34/7-26S  | NOR    | 97030-5     | 890.0       | 890.0       | Cuttings    | 12458.59         | 17.68            | 8.04             |                   |                   | 5.06              |
| 34/7-26S  | NOR    | 97030-6     | 920.0       | 920.0       | Cuttings    | 4673.49          | 7.08             | 3.53             |                   |                   | 2.32              |
| 34/7-26S  | NOR    | 97030-7     | 950.0       | 950.0       | Cuttings    | 6189.90          | 9.48             | 3.37             |                   |                   | 1.82              |
| 34/7-26S  | NOR    | 97030-8     | 980.0       | 980.0       | Cuttings    | 624.71           | 1.16             | 1.83             |                   |                   | 1.02              |
| 34/7-26S  | NOR    | 97030-9     | 970.0       | 970.0       | Cuttings    | 4852.55          | 6.57             | 21.55            |                   |                   | 5.79              |
| 34/7-26S  | NOR    | 97030-10    | 1000.0      | 1000.0      | Cuttings    | 10390.49         | 8.71             | 16.18            |                   |                   | 6.03              |
| 34/7-26S  | NOR    | 97030-11    | 1010.0      | 1010.0      | Cuttings    | 13293.65         | 18.33            | 12.39            |                   |                   | 6.41              |
| 34/7-26S  | NOR    | 97030-12    | 1020.0      | 1020.0      | Cuttings    | 11656.82         | 12.25            | 14.00            |                   |                   | 7.46              |
| 34/7-26S  | NOR    | 97030-13    | 1040.0      | 1040.0      | Cuttings    | 14321.47         | 17.57            | 9.63             |                   |                   | 6.06              |
| 34/7-26S  | NOR    | 97030-14    | 1060.0      | 1060.0      | Cuttings    | 21668.39         | 29.13            | 27.21            |                   |                   | 10.71             |
| 34/7-26S  | NOR    | 97030-15    | 1080.0      | 1080.0      | Cuttings    | 8083.32          | 11.24            | 6.84             |                   |                   | 4.15              |
| 34/7-26S  | NOR    | 97030-16    | 1100.0      | 1100.0      | Cuttings    | 7340.14          | 11.34            | 7.04             |                   |                   | 2.33              |
| 34/7-26S  | NOR    | 97030-17    | 1120.0      | 1120.0      | Cuttings    | 13433.20         | 21.58            | 17.71            |                   |                   | 6.00              |
| 34/7-26S  | NOR    | 97030-18    | 1140.0      | 1140.0      | Cuttings    | 12959.91         | 21.93            | 17.54            |                   |                   | 5.33              |
| 34/7-26S  | NOR    | 97030-19    | 1180.0      | 1180.0      | Cuttings    | 12243.35         | 19.46            | 16.61            |                   |                   | 6.29              |
| 34/7-26S  | NOR    | 97030-20    | 1220.0      | 1220.0      | Cuttings    | 10736.25         | 17.59            | 6.79             |                   |                   | 5.41              |
| 34/7-26S  | NOR    | 97030-21    | 1240.0      | 1240.0      | Cuttings    | 6742.95          | 11.92            | 4.03             |                   |                   | 2.91              |
| 34/7-26S  | NOR    | 97030-22    | 1260.0      | 1260.0      | Cuttings    | 5955.33          | 10.08            | 5.91             |                   | 3.90              | 3.94              |
| 34/7-26S  | NOR    | 97030-23    | 1270.0      | 1270.0      | Cuttings    | 1703.01          | 3.39             | 1.26             |                   |                   | 0.96              |
| 34/7-26S  | NOR    | 97030-24    | 1280.0      | 1280.0      | Cuttings    | 2322.48          | 8.08             | 5.83             |                   | 2.04              | 2.34              |
| 34/7-26S  | NOR    | 97030-25    | 1300.0      | 1300.0      | Cuttings    | 5922.20          | 9.65             | 7.22             |                   |                   | 4.63              |
| 34/7-26S  | NOR    | 97030-26    | 1320.0      | 1320.0      | Cuttings    | 7251.33          | 10.58            | 5.34             |                   |                   | 4.25              |
| 34/7-26S  | NOR    | 97030-27    | 1340.0      | 1340.0      | Cuttings    | 5130.24          | 9.53             | 8.33             |                   | 4.24              | 3.58              |
| 34/7-26S  | NOR    | 97030-28    | 1360.0      | 1360.0      | Cuttings    | 10404.91         | 14.12            | 8.51             |                   |                   | 0.00              |
| 34/7-26S  | NOR    | 97030-29    | 1380.0      | 1380.0      | Cuttings    | 4249.99          | 7.57             | 7.06             |                   |                   | 1.94              |
| 34/7-26S  | NOR    | 97030-30    | 1420.0      | 1420.0      | Cuttings    | 5043.93          | 10.27            | 2.51             |                   |                   | 6.43              |
| 34/7-26S  | NOR    | 97030-31    | 1460.0      | 1460.0      | Cuttings    | 4947.31          | 10.22            | 2.39             |                   |                   | 5.17              |
| 34/7-26S  | NOR    | 97030-32    | 1500.0      | 1500.0      | Cuttings    | 2966.72          | 5.97             | 2.21             |                   |                   | 7.11              |
| 34/7-26S  | NOR    | 97030-33    | 1540.0      | 1540.0      | Cuttings    | 5465.85          | 11.53            | 3.03             |                   |                   | 11.39             |
| 34/7-26S  | NOR    | 97030-34    | 1580.0      | 1580.0      | Cuttings    | 3722.13          | 9.87             | 1.54             |                   |                   | 7.67              |
| 34/7-26S  | NOR    | 97030-35    | 1600.0      | 1600.0      | Cuttings    | 2156.27          | 6.34             | 2.25             |                   |                   | 9.27              |
| 34/7-26S  | NOR    | 97030-36    | 1640.0      | 1640.0      | Cuttings    | 1791.00          | 7.67             | 1.11             |                   |                   | 5.83              |

**Table 5.1: Headspace Gas Analysis**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | C1<br>uL/Kg rock | C2<br>uL/Kg rock | C3<br>uL/Kg rock | iC4<br>uL/Kg rock | nC4<br>uL/Kg rock | C5+<br>uL/Kg rock |
|-----------|--------|-------------|-------------|-------------|-------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| 34/7-26S  | NOR    | 97030-37    | 1660.0      | 1660.0      | Cuttings    | 3007.26          | 9.29             | 1.84             |                   |                   | 3.86              |
| 34/7-26S  | NOR    | 97030-38    | 1680.0      | 1680.0      | Cuttings    | 1295.23          | 4.97             | 1.56             |                   |                   | 7.24              |
| 34/7-26S  | NOR    | 97030-39    | 1700.0      | 1700.0      | Cuttings    | 315.55           | 1.81             | 0.83             |                   | 0.21              | 5.15              |
| 34/7-26S  | NOR    | 97030-40    | 1720.0      | 1720.0      | Cuttings    | 1736.39          | 8.13             | 1.01             |                   |                   | 3.39              |
| 34/7-26S  | NOR    | 97030-41    | 1760.0      | 1760.0      | Cuttings    | 2666.67          | 8.07             | 2.53             |                   | 0.47              | 8.26              |
| 34/7-26S  | NOR    | 97030-42    | 1800.0      | 1800.0      | Cuttings    | 2414.18          | 13.23            | 3.31             |                   |                   | 6.95              |
| 34/7-26S  | NOR    | 97030-43    | 1840.0      | 1840.0      | Cuttings    | 2995.99          | 11.10            | 2.93             |                   |                   | 5.54              |
| 34/7-26S  | NOR    | 97030-44    | 1880.0      | 1880.0      | Cuttings    | 2090.14          | 6.05             | 1.74             |                   | 0.46              | 4.86              |
| 34/7-26S  | NOR    | 97030-45    | 1920.0      | 1920.0      | Cuttings    | 1205.15          | 3.01             | 0.94             |                   |                   | 4.71              |
| 34/7-26S  | NOR    | 97030-46    | 1960.0      | 1960.0      | Cuttings    | 1063.98          | 2.28             | 0.69             |                   |                   | 5.22              |
| 34/7-26S  | NOR    | 97030-47    | 1980.0      | 1980.0      | Cuttings    | 590.91           | 1.38             | 0.63             |                   |                   | 6.18              |
| 34/7-26S  | NOR    | 97030-48    | 2000.0      | 2000.0      | Cuttings    | 552.99           | 1.51             | 0.55             |                   |                   | 3.33              |
| 34/7-26S  | NOR    | 97030-49    | 2020.0      | 2020.0      | Cuttings    | 655.86           | 2.43             | 0.78             |                   |                   | 4.86              |
| 34/7-26S  | NOR    | 97030-50    | 2040.0      | 2040.0      | Cuttings    | 160.78           | 1.43             | 0.49             |                   |                   | 3.17              |
| 34/7-26S  | NOR    | 97030-51    | 2060.0      | 2060.0      | Cuttings    | 296.99           | 1.63             | 0.41             |                   |                   | 1.67              |
| 34/7-26S  | NOR    | 97030-52    | 2080.0      | 2080.0      | Cuttings    | 210.37           | 1.50             | 0.54             |                   |                   | 2.10              |
| 34/7-26S  | NOR    | 97030-53    | 2120.0      | 2120.0      | Cuttings    | 163.36           | 1.58             | 0.69             |                   |                   | 4.21              |
| 34/7-26S  | NOR    | 97030-54    | 2160.0      | 2160.0      | Cuttings    | 296.98           | 1.22             | 0.52             |                   |                   | 4.63              |
| 34/7-26S  | NOR    | 97030-55    | 2200.0      | 2200.0      | Cuttings    | 479.71           | 2.39             | 0.36             |                   |                   | 3.17              |
| 34/7-26S  | NOR    | 97030-56    | 2240.0      | 2240.0      | Cuttings    | 402.33           | 1.87             | 0.66             |                   |                   | 4.10              |
| 34/7-26S  | NOR    | 97030-57    | 2280.0      | 2280.0      | Cuttings    | 74.81            | 0.94             | 0.34             |                   |                   | 4.18              |
| 34/7-26S  | NOR    | 97030-58    | 2320.0      | 2320.0      | Cuttings    | 168.92           | 0.83             | 0.51             |                   |                   | 3.16              |
| 34/7-26S  | NOR    | 97030-59    | 2360.0      | 2360.0      | Cuttings    | 521.85           | 1.93             | 0.49             |                   |                   | 6.19              |
| 34/7-26S  | NOR    | 97030-60    | 2400.0      | 2400.0      | Cuttings    | 317.73           | 1.35             | 0.65             |                   |                   | 6.56              |
| 34/7-26S  | NOR    | 97030-61    | 2440.0      | 2440.0      | Cuttings    | 159.41           | 1.04             | 0.51             |                   |                   | 4.58              |
| 34/7-26S  | NOR    | 97030-62    | 2480.0      | 2480.0      | Cuttings    | 452.24           | 1.84             | 0.73             |                   |                   | 9.36              |
| 34/7-26S  | NOR    | 97030-63    | 2520.0      | 2520.0      | Cuttings    | 171.25           | 0.87             | 0.36             |                   |                   | 3.77              |
| 34/7-26S  | NOR    | 97030-64    | 2540.0      | 2540.0      | Cuttings    | 247.63           | 1.64             | 0.50             |                   |                   | 7.28              |
| 34/7-26S  | NOR    | 97030-65    | 2580.0      | 2580.0      | Cuttings    | 140.29           | 1.60             | 0.64             |                   |                   | 4.91              |
| 34/7-26S  | NOR    | 97030-66    | 2620.0      | 2620.0      | Cuttings    | 127.88           | 1.25             | 0.21             |                   |                   | 4.31              |
| 34/7-26S  | NOR    | 97030-67    | 2660.0      | 2660.0      | Cuttings    | 141.25           | 3.51             | 0.36             |                   |                   | 2.77              |
| 34/7-26S  | NOR    | 97030-68    | 2700.0      | 2700.0      | Cuttings    | 467.66           | 17.33            | 0.63             |                   |                   | 4.23              |
| 34/7-26S  | NOR    | 97030-69    | 2740.0      | 2740.0      | Cuttings    | 717.15           | 34.21            | 1.97             | 1.19              |                   | 7.17              |
| 34/7-26S  | NOR    | 97030-70    | 2780.0      | 2780.0      | Cuttings    | 475.57           | 21.27            | 2.69             | 1.93              |                   | 8.14              |
| 34/7-26S  | NOR    | 97030-71    | 2820.0      | 2820.0      | Cuttings    | 295.65           | 10.96            | 1.41             | 1.05              |                   | 4.57              |
| 34/7-26S  | NOR    | 97030-72    | 2860.0      | 2860.0      | Cuttings    | 199.77           | 3.30             | 0.35             | 0.21              |                   | 1.67              |

**Table 5.1: Headspace Gas Analysis**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | C1<br>uL/Kg rock | C2<br>uL/Kg rock | C3<br>uL/Kg rock | iC4<br>uL/Kg rock | nC4<br>uL/Kg rock | C5+<br>uL/Kg rock |
|-----------|--------|-------------|-------------|-------------|-------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| 34/7-26S  | NOR    | 97030-73    | 2900.0      | 2900.0      | Cuttings    | 170.70           | 7.11             | 1.49             | 1.07              | 0.21              | 5.76              |
| 34/7-26S  | NOR    | 97030-74    | 2940.0      | 2940.0      | Cuttings    | 498.34           | 24.19            | 2.66             | 1.92              |                   | 5.60              |
| 34/7-26S  | NOR    | 97030-75    | 2980.0      | 2980.0      | Cuttings    | 1290.58          | 83.64            | 9.26             | 7.94              | 1.52              | 14.35             |
| 34/7-26S  | NOR    | 97030-76    | 3020.0      | 3020.0      | Cuttings    | 522.97           | 35.89            | 3.51             | 2.78              | 0.51              | 3.48              |
| 34/7-26S  | NOR    | 97030-77    | 3060.0      | 3060.0      | Cuttings    | 462.70           | 34.04            | 3.36             | 2.42              | 0.47              | 5.35              |
| 34/7-26S  | NOR    | 97030-78    | 3100.0      | 3100.0      | Cuttings    | 402.16           | 32.51            | 3.47             | 2.37              |                   | 5.23              |
| 34/7-26S  | NOR    | 97030-79    | 3140.0      | 3140.0      | Cuttings    | 611.02           | 52.01            | 6.74             | 4.18              | 1.12              | 6.91              |
| 34/7-26S  | NOR    | 97030-80    | 3180.0      | 3180.0      | Cuttings    | 293.04           | 32.27            | 4.89             | 2.34              | 0.63              | 6.51              |
| 34/7-26S  | NOR    | 97030-81    | 3220.0      | 3220.0      | Cuttings    | 268.58           | 22.65            | 4.07             | 1.46              | 0.57              | 5.80              |
| 34/7-26S  | NOR    | 97030-82    | 3260.0      | 3260.0      | Cuttings    | 443.26           | 45.69            | 10.93            | 4.35              | 1.65              | 10.18             |
| 34/7-26S  | NOR    | 97030-83    | 3300.0      | 3300.0      | Cuttings    | 360.55           | 30.92            | 10.38            | 2.88              | 1.94              | 8.80              |
| 34/7-26S  | NOR    | 97030-84    | 3340.0      | 3340.0      | Cuttings    | 352.89           | 35.83            | 14.58            | 3.05              | 2.09              | 10.72             |
| 34/7-26S  | NOR    | 97030-85    | 3380.0      | 3380.0      | Cuttings    | 223.46           | 24.69            | 12.59            | 3.16              | 2.29              | 9.93              |
| 34/7-26S  | NOR    | 97030-86    | 3420.0      | 3420.0      | Cuttings    | 554.31           | 34.76            | 16.60            | 4.06              | 3.25              | 12.99             |
| 34/7-26S  | NOR    | 97030-87    | 3460.0      | 3460.0      | Cuttings    | 294.82           | 18.29            | 9.19             | 2.07              | 1.79              | 7.06              |
| 34/7-26S  | NOR    | 97030-88    | 3500.0      | 3500.0      | Cuttings    | 351.14           | 18.72            | 8.94             | 1.41              | 1.16              | 6.98              |
| 34/7-26S  | NOR    | 97030-89    | 3540.0      | 3540.0      | Cuttings    | 161.78           | 4.66             | 1.51             | 0.23              | 0.13              | 1.47              |
| 34/7-26S  | NOR    | 97030-90    | 3580.0      | 3580.0      | Cuttings    | 281.37           | 6.85             | 1.89             | 0.55              | 0.41              | 2.92              |
| 34/7-26S  | NOR    | 97030-91    | 3620.0      | 3620.0      | Cuttings    | 207.69           | 2.57             | 0.58             |                   |                   | 5.65              |
| 34/7-26S  | NOR    | 97030-92    | 3660.0      | 3660.0      | Cuttings    | 855.17           | 9.45             | 1.53             |                   |                   | 4.18              |
| 34/7-26S  | NOR    | 97030-93    | 3690.0      | 3690.0      | Cuttings    | 563.68           | 10.97            | 2.60             |                   |                   | 4.13              |
| 34/7-26S  | NOR    | 97030-94    | 3740.0      | 3740.0      | Cuttings    | 302.72           | 8.35             | 3.87             | 0.62              | 0.69              | 4.29              |
| 34/7-26S  | NOR    | 97030-95    | 3780.0      | 3780.0      | Cuttings    | 274.13           | 7.74             | 4.63             | 0.80              | 0.79              | 2.38              |
| 34/7-26S  | NOR    | 97030-96    | 3820.0      | 3820.0      | Cuttings    | 121.17           | 6.91             | 6.86             | 1.21              | 1.39              | 3.21              |
| 34/7-26S  | NOR    | 97030-97    | 3860.0      | 3860.0      | Cuttings    | 103.87           | 5.49             | 5.34             | 0.97              | 1.12              | 1.70              |
| 34/7-26S  | NOR    | 97030-98    | 3900.0      | 3900.0      | Cuttings    | 141.00           | 7.86             | 5.56             | 1.22              | 1.41              | 1.93              |
| 34/7-26S  | NOR    | 97030-99    | 3930.0      | 3930.0      | Cuttings    | 249.27           | 9.56             | 16.90            | 2.94              | 4.39              | 3.72              |
| 34/7-26S  | NOR    | 97030-100   | 3960.0      | 3960.0      | Cuttings    | 174.07           | 6.07             | 9.70             | 1.63              | 2.29              | 1.14              |
| 34/7-26S  | NOR    | 97030-101   | 3980.0      | 3980.0      | Cuttings    | 115.40           | 6.23             | 10.78            | 1.96              | 2.49              | 1.47              |
| 34/7-26S  | NOR    | 97030-102   | 4000.0      | 4000.0      | Cuttings    | 221.32           | 8.24             | 10.06            | 1.52              | 2.06              | 1.95              |
| 34/7-26S  | NOR    | 97030-103   | 4030.0      | 4030.0      | Cuttings    | 258.35           | 8.97             | 10.46            | 1.60              | 2.54              | 1.81              |
| 34/7-26S  | NOR    | 97030-104   | 4060.0      | 4060.0      | Cuttings    | 229.37           | 10.63            | 13.48            | 2.14              | 2.85              | 1.59              |
| 34/7-26S  | NOR    | 97030-105   | 4090.0      | 4090.0      | Cuttings    | 235.35           | 6.46             | 3.19             | 0.46              | 0.93              | 1.38              |
| 34/7-26S  | NOR    | 97030-106   | 4130.0      | 4130.0      | Cuttings    | 118.24           | 3.96             | 3.27             | 0.58              | 0.93              | 1.21              |
| 34/7-26S  | NOR    | 97030-107   | 4170.0      | 4170.0      | Cuttings    | 77.98            | 3.06             | 4.89             | 1.02              | 1.65              | 1.47              |
| 34/7-26S  | NOR    | 97030-108   | 4190.0      | 4190.0      | Cuttings    | 147.87           | 4.95             | 4.91             | 1.28              | 2.23              | 2.30              |

**Table 5.1: Headspace Gas Analysis**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | C1<br>uL/Kg rock | C2<br>uL/Kg rock | C3<br>uL/Kg rock | iC4<br>uL/Kg rock | nC4<br>uL/Kg rock | C5+<br>uL/Kg rock |
|-----------|--------|-------------|-------------|-------------|-------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| 34/7-26SR | NOR    | 97030-109   | 4230.0      | 4230.0      | Cuttings    | 100.07           | 5.94             | 3.56             | 1.22              | 1.41              | 4.07              |
| 34/7-26SR | NOR    | 97030-110   | 4250.0      | 4250.0      | Cuttings    | 96.47            | 6.01             | 3.75             | 0.67              | 1.27              | 2.98              |
| 34/7-26SR | NOR    | 97030-111   | 4260.0      | 4260.0      | Cuttings    | 80.68            | 8.73             | 12.80            | 2.56              | 4.85              | 9.77              |
| 34/7-26SR | NOR    | 97030-112   | 4270.0      | 4270.0      | Cuttings    | 53.84            | 7.53             | 11.01            | 2.43              | 4.31              | 5.83              |
| 34/7-26SR | NOR    | 97030-113   | 4300.0      | 4300.0      | Cuttings    | 126.92           | 13.46            | 15.87            | 3.11              | 5.21              | 5.97              |
| 34/7-26SR | NOR    | 97030-114   | 4310.0      | 4310.0      | Cuttings    | 178.11           | 15.02            | 11.70            | 2.21              | 3.28              | 6.16              |
| 34/7-26SR | NOR    | 97030-115   | 4320.0      | 4320.0      | Cuttings    | 109.18           | 11.55            | 11.68            | 2.28              | 3.97              | 5.88              |
| 34/7-26SR | NOR    | 97030-116   | 4330.0      | 4330.0      | Cuttings    | 2.04             | 0.10             | 0.81             | 0.31              | 1.10              | 6.95              |
| 34/7-26SR | NOR    | 97030-117   | 4340.0      | 4340.0      | Cuttings    | 81.52            | 9.51             | 13.01            | 2.55              | 4.18              | 7.05              |
| 34/7-26SR | NOR    | 97030-118   | 4350.0      | 4350.0      | Cuttings    | 246.43           | 20.11            | 17.23            | 3.14              | 5.02              | 7.98              |
| 34/7-26SR | NOR    | 97030-119   | 4360.0      | 4360.0      | Cuttings    | 171.75           | 13.74            | 13.59            | 2.59              | 4.28              | 5.66              |
| 34/7-26SR | NOR    | 97030-120   | 4370.0      | 4370.0      | Cuttings    | 42.66            | 5.01             | 6.68             | 1.33              | 2.35              | 3.29              |
| 34/7-26SR | NOR    | 97030-121   | 4380.0      | 4380.0      | Cuttings    | 16.26            | 1.80             | 2.62             | 0.72              | 1.11              | 2.28              |
| 34/7-26SR | NOR    | 97030-122   | 4390.0      | 4390.0      | Cuttings    | 26.67            | 3.70             | 7.10             | 1.75              | 3.02              | 4.26              |
| 34/7-26SR | NOR    | 97030-123   | 4400.0      | 4400.0      | Cuttings    | 7.80             | 0.67             | 1.59             | 0.36              | 0.72              | 4.08              |
| 34/7-26SR | NOR    | 97030-124   | 4410.0      | 4410.0      | Cuttings    | 141.53           | 14.39            | 17.89            | 3.99              | 6.87              | 7.56              |
| 34/7-26SR | NOR    | 97030-125   | 4420.0      | 4420.0      | Cuttings    | 39.70            | 4.51             | 6.90             | 1.61              | 2.73              | 4.40              |
| 34/7-26SR | NOR    | 97030-126   | 4430.0      | 4430.0      | Cuttings    | 29.04            | 5.73             | 11.12            | 2.73              | 4.93              | 7.50              |
| 34/7-26SR | NOR    | 97030-127   | 4440.0      | 4440.0      | Cuttings    | 27.17            | 3.46             | 4.81             | 0.99              | 1.74              | 3.22              |
| 34/7-26SR | NOR    | 97030-128   | 4450.0      | 4450.0      | Cuttings    | 44.75            | 6.71             | 7.76             | 1.39              | 2.48              | 3.77              |
| 34/7-26SR | NOR    | 97030-129   | 4460.0      | 4460.0      | Cuttings    | 43.74            | 4.79             | 4.66             | 0.77              | 1.32              | 2.34              |
| 34/7-26SR | NOR    | 97030-130   | 4470.0      | 4470.0      | Cuttings    | 81.79            | 12.23            | 12.37            | 1.93              | 3.65              | 5.75              |
| 34/7-26SR | NOR    | 97030-131   | 4480.0      | 4480.0      | Cuttings    | 30.11            | 6.43             | 9.05             | 2.02              | 2.94              | 4.64              |
| 34/7-26SR | NOR    | 97030-132   | 4490.0      | 4490.0      | Cuttings    | 100.26           | 11.45            | 12.27            | 2.29              | 4.27              | 7.56              |
| 34/7-26SR | NOR    | 97030-133   | 4500.0      | 4500.0      | Cuttings    | 53.68            | 7.59             | 10.14            | 1.87              | 3.49              | 5.27              |
| 34/7-26SR | NOR    | 97030-134   | 4510.0      | 4510.0      | Cuttings    | 74.82            | 18.55            | 60.55            | 11.11             | 23.76             | 18.19             |
| 34/7-26SR | NOR    | 97030-135   | 4518.0      | 4518.0      | Cuttings    | 212.74           | 36.38            | 23.05            | 8.22              | 14.86             | 28.77             |
| 34/7-26SR | NOR    | 97030-136   | 4527.0      | 4527.0      | Cuttings    | 632.20           | 74.07            | 34.08            | 3.19              | 7.06              | 6.39              |
| 34/7-26SR | NOR    | 97030-137   | 4536.0      | 4536.0      | Cuttings    | 740.12           | 82.51            | 43.99            | 4.04              | 7.91              | 3.10              |
| 34/7-26SR | NOR    | 97030-138   | 4545.0      | 4545.0      | Cuttings    | 971.42           | 295.55           | 278.43           | 29.67             | 62.81             | 36.19             |
| 34/7-26SR | NOR    | 97030-139   | 4563.0      | 4563.0      | Cuttings    | 465.62           | 347.61           | 253.64           | 22.38             | 47.66             | 28.31             |
| 34/7-26SR | NOR    | 97030-140   | 4581.0      | 4581.0      | Cuttings    | 1446.57          | 746.63           | 586.31           | 52.88             | 108.88            | 57.73             |
| 34/7-26SR | NOR    | 97030-141   | 4599.0      | 4599.0      | Cuttings    | 894.79           | 421.32           | 550.02           | 57.58             | 115.29            | 69.69             |
| 34/7-26SR | NOR    | 97030-142   | 4617.0      | 4617.0      | Cuttings    | 1660.64          | 374.23           | 190.93           | 11.03             | 19.77             | 19.61             |
| 34/7-26SR | NOR    | 97030-143   | 4635.0      | 4635.0      | Cuttings    | 874.74           | 313.79           | 219.64           | 16.31             | 27.73             | 19.15             |
| 34/7-26SR | NOR    | 97030-144   | 4653.0      | 4653.0      | Cuttings    | 94.73            | 83.80            | 122.57           | 10.64             | 20.46             | 20.29             |
| 34/7-26SR | NOR    | 97030-145   | 4671.0      | 4671.0      | Cuttings    | 369.69           | 123.58           | 79.55            | 5.16              | 9.38              | 5.76              |
| 34/7-26SR | NOR    | 97030-146   | 4689.0      | 4689.0      | Cuttings    | 863.06           | 222.23           | 142.22           | 9.58              | 19.05             | 14.20             |

**Table 5.2: Occluded Gas Analysis**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | C1<br>uL/Kg rock | C2<br>uL/Kg rock | C3<br>uL/Kg rock | iC4<br>uL/Kg rock | nC4<br>uL/Kg rock | C5+<br>uL/Kg rock |
|-----------|--------|-------------|-------------|-------------|-------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| 34/7-26S  | NOR    | 97030-1     | 760.0       | 760.0       | Cuttings    | 97.35            | 6.57             | 4.98             |                   |                   | 18.29             |
| 34/7-26S  | NOR    | 97030-2     | 780.0       | 780.0       | Cuttings    | 103.35           | 2.77             | 4.77             |                   |                   | 30.57             |
| 34/7-26S  | NOR    | 97030-3     | 820.0       | 820.0       | Cuttings    | 67.81            | 4.06             | 2.45             |                   |                   | 4.80              |
| 34/7-26S  | NOR    | 97030-4     | 860.0       | 860.0       | Cuttings    | 76.56            | 3.25             | 3.15             |                   |                   | 22.98             |
| 34/7-26S  | NOR    | 97030-5     | 890.0       | 890.0       | Cuttings    | 98.82            | 16.06            | 14.35            |                   | 7.01              | 39.86             |
| 34/7-26S  | NOR    | 97030-6     | 920.0       | 920.0       | Cuttings    | 78.69            | 3.35             | 3.10             |                   |                   | 13.36             |
| 34/7-26S  | NOR    | 97030-7     | 950.0       | 950.0       | Cuttings    | 107.41           | 10.53            | 4.50             |                   |                   | 19.17             |
| 34/7-26S  | NOR    | 97030-8     | 980.0       | 980.0       | Cuttings    | 58.13            |                  |                  |                   |                   | 21.93             |
| 34/7-26S  | NOR    | 97030-9     | 970.0       | 970.0       | Cuttings    | 90.46            | 10.87            | 7.36             | 3.54              | 1.05              | 29.75             |
| 34/7-26S  | NOR    | 97030-10    | 1000.0      | 1000.0      | Cuttings    | 359.17           | 170.75           | 112.36           | 7.13              | 60.40             | 198.71            |
| 34/7-26S  | NOR    | 97030-11    | 1010.0      | 1010.0      | Cuttings    | 74.18            | 0.85             | 3.70             |                   | 0.92              | 30.15             |
| 34/7-26S  | NOR    | 97030-12    | 1020.0      | 1020.0      | Cuttings    | 60.39            | 2.40             | 2.84             |                   | 1.05              | 28.23             |
| 34/7-26S  | NOR    | 97030-13    | 1040.0      | 1040.0      | Cuttings    | 55.39            | 2.37             | 2.25             |                   |                   | 33.43             |
| 34/7-26S  | NOR    | 97030-14    | 1060.0      | 1060.0      | Cuttings    | 48.49            | 3.82             | 4.52             |                   | 1.93              | 19.71             |
| 34/7-26S  | NOR    | 97030-15    | 1080.0      | 1080.0      | Cuttings    | 59.26            | 1.81             | 2.89             |                   |                   | 36.41             |
| 34/7-26S  | NOR    | 97030-16    | 1100.0      | 1100.0      | Cuttings    | 44.79            | 2.14             | 2.37             |                   |                   | 21.67             |
| 34/7-26S  | NOR    | 97030-17    | 1120.0      | 1120.0      | Cuttings    | 39.33            | 0.62             | 2.10             |                   |                   | 28.32             |
| 34/7-26S  | NOR    | 97030-18    | 1140.0      | 1140.0      | Cuttings    | 32.61            | 1.72             | 2.24             |                   | 1.17              | 21.55             |
| 34/7-26S  | NOR    | 97030-19    | 1180.0      | 1180.0      | Cuttings    | 43.27            | 3.44             | 3.44             |                   | 1.15              | 9.30              |
| 34/7-26S  | NOR    | 97030-20    | 1220.0      | 1220.0      | Cuttings    | 74.32            | 2.62             | 3.46             |                   | 1.13              | 31.49             |
| 34/7-26S  | NOR    | 97030-21    | 1240.0      | 1240.0      | Cuttings    | 79.92            | 6.86             | 5.06             |                   | 1.51              | 51.57             |
| 34/7-26S  | NOR    | 97030-22    | 1260.0      | 1260.0      | Cuttings    | 70.15            | 13.17            | 9.07             |                   | 3.58              | 33.59             |
| 34/7-26S  | NOR    | 97030-23    | 1270.0      | 1270.0      | Cuttings    | 55.21            | 4.47             | 4.86             |                   |                   | 28.34             |
| 34/7-26S  | NOR    | 97030-24    | 1280.0      | 1280.0      | Cuttings    | 49.91            | 4.70             | 4.20             |                   | 0.76              | 17.92             |
| 34/7-26S  | NOR    | 97030-25    | 1300.0      | 1300.0      | Cuttings    | 35.46            | 2.38             | 2.66             |                   |                   | 16.12             |
| 34/7-26S  | NOR    | 97030-26    | 1320.0      | 1320.0      | Cuttings    | 29.81            | 3.57             | 3.21             |                   | 0.97              | 19.89             |
| 34/7-26S  | NOR    | 97030-27    | 1340.0      | 1340.0      | Cuttings    | 30.53            | 3.36             | 2.79             |                   | 1.38              | 16.19             |
| 34/7-26S  | NOR    | 97030-28    | 1360.0      | 1360.0      | Cuttings    | 38.73            | 3.75             | 4.87             |                   | 0.82              | 26.59             |
| 34/7-26S  | NOR    | 97030-29    | 1380.0      | 1380.0      | Cuttings    | 57.76            | 4.94             | 9.47             |                   | 1.91              | 31.52             |
| 34/7-26S  | NOR    | 97030-30    | 1420.0      | 1420.0      | Cuttings    | 29.98            |                  |                  |                   |                   | 32.60             |
| 34/7-26S  | NOR    | 97030-31    | 1460.0      | 1460.0      | Cuttings    | 74.68            | 7.40             | 2.91             |                   | 1.28              | 33.61             |
| 34/7-26S  | NOR    | 97030-32    | 1500.0      | 1500.0      | Cuttings    | 41.66            | 2.32             | 1.61             |                   |                   | 28.11             |
| 34/7-26S  | NOR    | 97030-33    | 1540.0      | 1540.0      | Cuttings    | 31.47            | 6.02             | 2.96             |                   |                   | 36.87             |
| 34/7-26S  | NOR    | 97030-34    | 1580.0      | 1580.0      | Cuttings    | 29.28            | 1.30             | 1.86             |                   |                   | 49.14             |
| 34/7-26S  | NOR    | 97030-35    | 1600.0      | 1600.0      | Cuttings    | 19.24            | 2.29             | 1.64             |                   |                   | 5.89              |
| 34/7-26S  | NOR    | 97030-36    | 1640.0      | 1640.0      | Cuttings    | 9.46             | 1.04             | 3.15             |                   |                   | 14.44             |
| 34/7-26S  | NOR    | 97030-37    | 1660.0      | 1660.0      | Cuttings    | 11.49            | 1.15             | 3.36             |                   |                   | 13.55             |
| 34/7-26S  | NOR    | 97030-38    | 1680.0      | 1680.0      | Cuttings    | 18.03            | 0.52             | 4.43             |                   |                   | 16.97             |
| 34/7-26S  | NOR    | 97030-39    | 1700.0      | 1700.0      | Cuttings    | 24.30            | 2.93             | 6.42             |                   | 1.62              | 32.36             |
| 34/7-26S  | NOR    | 97030-40    | 1720.0      | 1720.0      | Cuttings    | 27.34            | 1.50             | 2.30             |                   |                   | 13.80             |
| 34/7-26S  | NOR    | 97030-41    | 1760.0      | 1760.0      | Cuttings    | 23.82            | 1.55             | 3.67             |                   |                   | 27.00             |
| 34/7-26S  | NOR    | 97030-42    | 1800.0      | 1800.0      | Cuttings    | 17.54            | 1.44             | 4.90             |                   |                   | 20.31             |
| 34/7-26S  | NOR    | 97030-43    | 1840.0      | 1840.0      | Cuttings    | 20.66            | 0.26             | 3.37             |                   |                   | 14.08             |
| 34/7-26S  | NOR    | 97030-44    | 1880.0      | 1880.0      | Cuttings    | 15.08            | 2.53             | 4.49             |                   | 1.26              | 14.03             |
| 34/7-26S  | NOR    | 97030-45    | 1920.0      | 1920.0      | Cuttings    | 13.30            | 2.31             | 2.04             |                   | 1.44              | 13.69             |
| 34/7-26S  | NOR    | 97030-46    | 1960.0      | 1960.0      | Cuttings    | 14.73            | 3.85             | 2.82             |                   | 1.73              | 24.54             |
| 34/7-26S  | NOR    | 97030-47    | 1980.0      | 1980.0      | Cuttings    | 13.57            | 5.01             | 3.15             |                   | 2.73              | 17.60             |
| 34/7-26S  | NOR    | 97030-48    | 2000.0      | 2000.0      | Cuttings    | 10.24            | 1.15             | 0.91             |                   | 0.14              | 28.82             |
| 34/7-26S  | NOR    | 97030-49    | 2020.0      | 2020.0      | Cuttings    | 16.02            | 5.94             | 4.45             |                   | 2.55              | 30.42             |
| 34/7-26S  | NOR    | 97030-50    | 2040.0      | 2040.0      | Cuttings    | 36.75            | 1.87             | 1.78             |                   | 1.20              | 14.71             |
| 34/7-26S  | NOR    | 97030-51    | 2060.0      | 2060.0      | Cuttings    | 9.84             | 1.00             | 2.09             |                   | 0.61              | 12.10             |
| 34/7-26S  | NOR    | 97030-52    | 2080.0      | 2080.0      | Cuttings    | 8.90             | 0.93             | 1.26             |                   |                   | 13.50             |
| 34/7-26S  | NOR    | 97030-53    | 2120.0      | 2120.0      | Cuttings    | 9.45             | 5.12             | 3.30             |                   | 1.81              | 19.40             |
| 34/7-26S  | NOR    | 97030-54    | 2160.0      | 2160.0      | Cuttings    | 9.59             | 1.43             | 1.47             |                   |                   | 19.20             |
| 34/7-26S  | NOR    | 97030-55    | 2200.0      | 2200.0      | Cuttings    | 7.01             |                  |                  |                   |                   | 12.50             |
| 34/7-26S  | NOR    | 97030-56    | 2240.0      | 2240.0      | Cuttings    | 7.64             | 1.57             | 1.38             |                   |                   | 11.83             |
| 34/7-26S  | NOR    | 97030-57    | 2280.0      | 2280.0      | Cuttings    | 12.10            | 3.09             | 2.91             |                   | 1.34              | 18.13             |
| 34/7-26S  | NOR    | 97030-58    | 2320.0      | 2320.0      | Cuttings    | 7.16             |                  |                  |                   |                   | 13.57             |
| 34/7-26S  | NOR    | 97030-59    | 2360.0      | 2360.0      | Cuttings    | 8.08             |                  |                  |                   |                   | 15.35             |
| 34/7-26S  | NOR    | 97030-60    | 2400.0      | 2400.0      | Cuttings    | 13.76            | 5.77             | 3.59             |                   | 1.56              | 15.87             |
| 34/7-26S  | NOR    | 97030-61    | 2440.0      | 2440.0      | Cuttings    | 13.75            | 5.83             | 3.42             |                   | 1.31              | 14.45             |
| 34/7-26S  | NOR    | 97030-62    | 2480.0      | 2480.0      | Cuttings    | 6.82             |                  |                  |                   |                   | 7.70              |
| 34/7-26S  | NOR    | 97030-63    | 2520.0      | 2520.0      | Cuttings    | 14.68            | 2.40             | 1.50             |                   | 0.70              | 12.01             |
| 34/7-26S  | NOR    | 97030-64    | 2540.0      | 2540.0      | Cuttings    | 10.27            | 3.70             | 1.94             | 1.31              | 2.09              | 14.18             |
| 34/7-26S  | NOR    | 97030-65    | 2580.0      | 2580.0      | Cuttings    | 9.18             | 2.03             | 1.46             | 0.23              | 0.94              | 19.02             |

**Table 5.2: Occluded Gas Analysis**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | C1<br>uL/Kg rock | C2<br>uL/Kg rock | C3<br>uL/Kg rock | iC4<br>uL/Kg rock | nC4<br>uL/Kg rock | C5+<br>uL/Kg rock |
|-----------|--------|-------------|-------------|-------------|-------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| 34/7-26S  | NOR    | 97030-66    | 2620.0      | 2620.0      | Cuttings    | 8.29             | 0.64             | 0.47             |                   |                   | 28.18             |
| 34/7-26S  | NOR    | 97030-67    | 2660.0      | 2660.0      | Cuttings    | 8.34             | 2.00             |                  |                   |                   | 15.84             |
| 34/7-26S  | NOR    | 97030-68    | 2700.0      | 2700.0      | Cuttings    | 12.13            | 4.12             | 2.32             |                   |                   | 25.25             |
| 34/7-26S  | NOR    | 97030-69    | 2740.0      | 2740.0      | Cuttings    | 10.08            | 1.88             | 1.76             |                   |                   | 19.01             |
| 34/7-26S  | NOR    | 97030-70    | 2780.0      | 2780.0      | Cuttings    | 11.41            | 3.28             | 2.22             | 1.26              | 1.81              | 23.47             |
| 34/7-26S  | NOR    | 97030-71    | 2820.0      | 2820.0      | Cuttings    | 9.26             | 1.04             | 1.19             | 1.09              | 0.95              | 24.17             |
| 34/7-26S  | NOR    | 97030-72    | 2860.0      | 2860.0      | Cuttings    | 8.47             | 1.25             | 1.08             | 0.94              | 1.35              | 19.17             |
| 34/7-26S  | NOR    | 97030-73    | 2900.0      | 2900.0      | Cuttings    | 28.79            | 14.00            | 8.29             | 1.34              | 4.56              | 18.63             |
| 34/7-26S  | NOR    | 97030-74    | 2940.0      | 2940.0      | Cuttings    | 9.44             | 3.00             | 1.17             | 0.96              | 0.50              | 23.98             |
| 34/7-26S  | NOR    | 97030-75    | 2980.0      | 2980.0      | Cuttings    | 12.89            | 4.01             | 1.49             | 2.49              | 0.95              | 23.03             |
| 34/7-26S  | NOR    | 97030-76    | 3020.0      | 3020.0      | Cuttings    | 16.87            | 8.08             | 3.74             | 4.71              | 1.63              | 30.43             |
| 34/7-26S  | NOR    | 97030-77    | 3060.0      | 3060.0      | Cuttings    | 16.42            | 6.47             | 2.49             | 3.40              | 1.60              | 28.34             |
| 34/7-26S  | NOR    | 97030-78    | 3100.0      | 3100.0      | Cuttings    | 10.00            | 3.04             | 1.40             | 1.42              | 0.40              | 19.35             |
| 34/7-26S  | NOR    | 97030-79    | 3140.0      | 3140.0      | Cuttings    | 11.24            | 3.45             | 1.38             | 1.99              | 0.69              | 19.13             |
| 34/7-26S  | NOR    | 97030-80    | 3180.0      | 3180.0      | Cuttings    | 8.03             | 1.98             | 0.98             | 1.08              | 0.49              | 19.49             |
| 34/7-26S  | NOR    | 97030-81    | 3220.0      | 3220.0      | Cuttings    | 8.07             | 4.49             | 2.51             | 1.91              | 0.68              | 19.65             |
| 34/7-26S  | NOR    | 97030-82    | 3260.0      | 3260.0      | Cuttings    | 8.82             | 1.16             | 0.71             | 1.20              | 1.30              | 23.56             |
| 34/7-26S  | NOR    | 97030-83    | 3300.0      | 3300.0      | Cuttings    | 16.11            | 5.02             | 3.19             | 0.77              | 1.46              | 28.05             |
| 34/7-26S  | NOR    | 97030-84    | 3340.0      | 3340.0      | Cuttings    | 9.72             | 1.63             | 2.59             | 0.86              | 1.43              | 30.58             |
| 34/7-26S  | NOR    | 97030-85    | 3380.0      | 3380.0      | Cuttings    | 11.18            | 1.66             | 3.42             | 1.75              | 2.23              | 31.27             |
| 34/7-26S  | NOR    | 97030-86    | 3420.0      | 3420.0      | Cuttings    | 10.45            | 0.99             | 3.16             | 2.14              | 2.23              | 36.69             |
| 34/7-26S  | NOR    | 97030-87    | 3460.0      | 3460.0      | Cuttings    | 11.04            | 1.16             | 1.98             | 0.81              | 1.09              | 25.25             |
| 34/7-26S  | NOR    | 97030-88    | 3500.0      | 3500.0      | Cuttings    | 9.89             | 0.61             | 1.64             | 0.66              | 0.54              | 23.21             |
| 34/7-26S  | NOR    | 97030-89    | 3540.0      | 3540.0      | Cuttings    | 8.85             | 0.37             | 1.23             | 0.35              | 0.73              | 23.44             |
| 34/7-26S  | NOR    | 97030-90    | 3580.0      | 3580.0      | Cuttings    | 9.68             | 0.60             | 1.07             |                   |                   | 22.39             |
| 34/7-26S  | NOR    | 97030-91    | 3620.0      | 3620.0      | Cuttings    | 10.30            |                  |                  |                   |                   | 26.35             |
| 34/7-26S  | NOR    | 97030-92    | 3660.0      | 3660.0      | Cuttings    | 14.58            | 1.21             | 1.06             |                   | 0.46              | 32.77             |
| 34/7-26S  | NOR    | 97030-93    | 3690.0      | 3690.0      | Cuttings    | 11.07            | 1.50             | 1.31             | 0.31              | 0.42              | 25.94             |
| 34/7-26S  | NOR    | 97030-94    | 3740.0      | 3740.0      | Cuttings    | 10.89            |                  |                  |                   |                   | 6.08              |
| 34/7-26S  | NOR    | 97030-95    | 3780.0      | 3780.0      | Cuttings    | 5.91             | 0.27             | 1.06             | 0.40              | 0.44              | 7.30              |
| 34/7-26S  | NOR    | 97030-96    | 3820.0      | 3820.0      | Cuttings    | 8.34             | 0.56             | 1.62             | 0.26              | 0.94              | 12.24             |
| 34/7-26S  | NOR    | 97030-97    | 3860.0      | 3860.0      | Cuttings    | 8.81             | 1.02             | 2.50             | 0.59              | 1.05              | 9.24              |
| 34/7-26S  | NOR    | 97030-98    | 3900.0      | 3900.0      | Cuttings    | 12.43            | 1.95             | 2.93             | 1.16              | 1.62              | 11.01             |
| 34/7-26S  | NOR    | 97030-99    | 3930.0      | 3930.0      | Cuttings    | 17.62            | 3.20             | 5.82             | 2.13              | 4.94              | 12.14             |
| 34/7-26S  | NOR    | 97030-100   | 3960.0      | 3960.0      | Cuttings    | 13.47            | 2.61             | 5.59             | 1.86              | 3.91              | 12.55             |
| 34/7-26S  | NOR    | 97030-101   | 3980.0      | 3980.0      | Cuttings    | 13.51            | 1.80             | 5.74             | 2.32              | 4.36              | 13.62             |
| 34/7-26S  | NOR    | 97030-102   | 4000.0      | 4000.0      | Cuttings    | 13.12            | 1.94             | 3.50             | 1.51              | 3.32              | 11.22             |
| 34/7-26S  | NOR    | 97030-103   | 4030.0      | 4030.0      | Cuttings    | 19.17            | 3.29             | 5.98             | 2.10              | 4.99              | 20.29             |
| 34/7-26S  | NOR    | 97030-104   | 4060.0      | 4060.0      | Cuttings    | 16.45            | 3.33             | 6.40             | 2.42              | 5.65              | 16.18             |
| 34/7-26S  | NOR    | 97030-105   | 4090.0      | 4090.0      | Cuttings    | 9.55             | 1.03             | 1.21             | 0.27              | 0.81              | 16.66             |
| 34/7-26S  | NOR    | 97030-106   | 4130.0      | 4130.0      | Cuttings    | 9.60             | 1.01             | 1.92             | 0.50              | 1.80              | 14.26             |
| 34/7-26S  | NOR    | 97030-107   | 4170.0      | 4170.0      | Cuttings    | 5.61             | 0.46             | 1.14             | 0.54              | 1.14              | 9.34              |
| 34/7-26S  | NOR    | 97030-108   | 4190.0      | 4190.0      | Cuttings    | 7.28             | 0.13             | 0.50             | 0.24              | 0.64              | 6.74              |

**Table 5.2: Occluded Gas Analysis**

| Well Name | Nation | Sample Name | Upper Depth | Lower Depth | Sample Type | C1<br>uL/Kg rock | C2<br>uL/Kg rock | C3<br>uL/Kg rock | iC4<br>uL/Kg rock | nC4<br>uL/Kg rock | C5+<br>uL/Kg rock |
|-----------|--------|-------------|-------------|-------------|-------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| 34/7-26SR | NOR    | 97030-109   | 4230.0      | 4230.0      | Cuttings    | 11.51            | 0.37             | 1.10             |                   |                   | 9.47              |
| 34/7-26SR | NOR    | 97030-110   | 4250.0      | 4250.0      | Cuttings    | 10.24            | 0.79             | 1.12             |                   |                   | 12.06             |
| 34/7-26SR | NOR    | 97030-111   | 4260.0      | 4260.0      | Cuttings    | 12.21            | 0.46             | 0.84             | 0.63              | 0.85              | 11.16             |
| 34/7-26SR | NOR    | 97030-112   | 4270.0      | 4270.0      | Cuttings    | 8.95             | 0.22             | 0.78             | 0.44              | 0.94              | 8.72              |
| 34/7-26SR | NOR    | 97030-113   | 4300.0      | 4300.0      | Cuttings    | 4.03             | 0.32             | 0.23             | 0.34              | 0.46              | 6.69              |
| 34/7-26SR | NOR    | 97030-114   | 4310.0      | 4310.0      | Cuttings    | 6.38             |                  |                  |                   |                   | 2.09              |
| 34/7-26SR | NOR    | 97030-115   | 4320.0      | 4320.0      | Cuttings    | 13.66            | 2.74             | 2.29             | 0.96              | 2.57              | 24.71             |
| 34/7-26SR | NOR    | 97030-116   | 4330.0      | 4330.0      | Cuttings    | 7.73             | 1.12             | 0.99             |                   |                   | 12.17             |
| 34/7-26SR | NOR    | 97030-117   | 4340.0      | 4340.0      | Cuttings    | 7.16             | 0.21             | 1.05             | 0.57              | 1.23              | 14.59             |
| 34/7-26SR | NOR    | 97030-118   | 4350.0      | 4350.0      | Cuttings    | 10.30            | 0.78             | 2.83             | 0.41              | 1.82              | 18.47             |
| 34/7-26SR | NOR    | 97030-119   | 4360.0      | 4360.0      | Cuttings    | 7.95             | 0.40             | 1.57             | 1.20              | 3.20              | 26.31             |
| 34/7-26SR | NOR    | 97030-120   | 4370.0      | 4370.0      | Cuttings    | 11.89            | 1.69             | 4.34             | 1.83              | 4.42              | 40.16             |
| 34/7-26SR | NOR    | 97030-121   | 4380.0      | 4380.0      | Cuttings    | 8.08             | 0.66             | 1.55             | 0.60              | 1.38              | 22.03             |
| 34/7-26SR | NOR    | 97030-122   | 4390.0      | 4390.0      | Cuttings    | 9.16             | 0.52             | 3.22             | 1.77              | 5.11              | 29.04             |
| 34/7-26SR | NOR    | 97030-123   | 4400.0      | 4400.0      | Cuttings    | 8.65             | 1.07             | 2.42             | 1.33              | 3.85              | 18.56             |
| 34/7-26SR | NOR    | 97030-124   | 4410.0      | 4410.0      | Cuttings    | 8.88             | 0.60             | 2.96             | 1.45              | 4.40              | 29.40             |
| 34/7-26SR | NOR    | 97030-125   | 4420.0      | 4420.0      | Cuttings    | 7.44             | 0.48             | 2.55             | 1.44              | 4.51              | 21.08             |
| 34/7-26SR | NOR    | 97030-126   | 4430.0      | 4430.0      | Cuttings    | 8.89             | 0.74             | 2.99             | 0.97              | 2.60              | 21.25             |
| 34/7-26SR | NOR    | 97030-127   | 4440.0      | 4440.0      | Cuttings    | 8.29             | 0.84             | 2.66             | 0.86              | 2.07              | 18.43             |
| 34/7-26SR | NOR    | 97030-128   | 4450.0      | 4450.0      | Cuttings    | 8.08             | 0.68             | 2.58             | 0.68              | 1.08              | 23.84             |
| 34/7-26SR | NOR    | 97030-129   | 4460.0      | 4460.0      | Cuttings    | 8.51             | 0.12             | 2.76             | 1.05              | 2.19              | 21.82             |
| 34/7-26SR | NOR    | 97030-130   | 4470.0      | 4470.0      | Cuttings    | 9.29             | 0.73             | 2.55             | 0.64              | 2.21              | 24.84             |
| 34/7-26SR | NOR    | 97030-131   | 4480.0      | 4480.0      | Cuttings    | 9.57             | 0.55             | 1.71             | 0.49              | 1.40              | 18.47             |
| 34/7-26SR | NOR    | 97030-132   | 4490.0      | 4490.0      | Cuttings    | 9.40             | 0.80             | 2.85             | 1.21              | 2.68              | 20.40             |
| 34/7-26SR | NOR    | 97030-133   | 4500.0      | 4500.0      | Cuttings    | 10.73            | 0.45             | 2.96             | 0.47              | 2.36              | 25.64             |
| 34/7-26SR | NOR    | 97030-134   | 4510.0      | 4510.0      | Cuttings    | 18.68            | 1.79             | 5.74             | 1.63              | 6.28              | 33.36             |
| 34/7-26SR | NOR    | 97030-135   | 4518.0      | 4518.0      | Cuttings    | 14.73            | 0.77             | 1.36             | 0.68              | 1.66              | 19.75             |
| 34/7-26SR | NOR    | 97030-136   | 4527.0      | 4527.0      | Cuttings    | 19.15            | 3.19             | 6.06             | 1.81              | 5.23              | 27.84             |
| 34/7-26SR | NOR    | 97030-137   | 4536.0      | 4536.0      | Cuttings    | 13.31            | 3.61             | 8.85             | 2.33              | 6.67              | 61.41             |
| 34/7-26SR | NOR    | 97030-138   | 4545.0      | 4545.0      | Cuttings    | 24.37            | 18.38            | 97.94            | 30.07             | 99.33             | 379.86            |
| 34/7-26SR | NOR    | 97030-139   | 4563.0      | 4563.0      | Cuttings    | 41.14            | 146.95           | 474.41           | 118.09            | 354.77            | 620.31            |
| 34/7-26SR | NOR    | 97030-140   | 4581.0      | 4581.0      | Cuttings    | 109.82           | 66.91            | 238.79           | 61.18             | 188.47            | 333.31            |
| 34/7-26SR | NOR    | 97030-141   | 4599.0      | 4599.0      | Cuttings    | 116.62           | 48.18            | 186.98           | 53.23             | 144.18            | 369.22            |
| 34/7-26SR | NOR    | 97030-142   | 4617.0      | 4617.0      | Cuttings    | 55.76            | 19.74            | 35.24            | 4.71              | 11.59             | 48.84             |
| 34/7-26SR | NOR    | 97030-143   | 4635.0      | 4635.0      | Cuttings    | 27.95            | 13.35            | 42.59            | 7.58              | 16.74             | 48.06             |
| 34/7-26SR | NOR    | 97030-144   | 4653.0      | 4653.0      | Cuttings    | 17.09            | 3.98             | 15.03            | 3.53              | 8.17              | 45.32             |
| 34/7-26SR | NOR    | 97030-145   | 4671.0      | 4671.0      | Cuttings    | 23.17            | 17.65            | 62.93            | 9.47              | 25.00             | 64.16             |
| 34/7-26SR | NOR    | 97030-146   | 4689.0      | 4689.0      | Cuttings    | 31.71            | 18.43            | 55.43            | 9.53              | 24.90             | 79.40             |

Table 5.3: Gas Isotope Data

| Well      | Nation | Sample name | Upper Depth | Lower Depth | Sample Type | C1<br>del C 13 | C2<br>del C 14 | C3<br>del C 15 | iC4<br>del C 16 | nC4<br>del C 17 | CO2<br>del C 18 | C1<br>del D |
|-----------|--------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-------------|
| 34/7-26S  | NOR    | 91030-21    | 1240        | 1240        | Cuttings    | -70.4          |                |                |                 |                 | -24.8           | -179        |
| 34/7-26S  | NOR    | 91030-76    | 3020        | 3020        | Cuttings    | -45.5          | -29.3          |                |                 |                 | -32.2           |             |
| 34/7-26SR | NOR    | 91030-122   | 4390        | 4390        | Cuttings    |                |                |                |                 |                 | -15.3           |             |
| 34/7-26SR | NOR    | 91030-134   | 4510        | 4510        | Cuttings    |                |                |                |                 |                 | -19             |             |
| 34/7-26SR | NOR    | 91030-137   | 4536        | 4536        | Cuttings    | -38.2          | -30            | -29            |                 |                 | -12.6           |             |

## **APPENDIX**

Vitrinite reflectance data provided by IFE

GC and GC/MS chromatograms provided by Robertson Research. Notice that page numbers for GC and GC/MS data start at page 36.

**Number of readings**

**%Rm**

Legend:

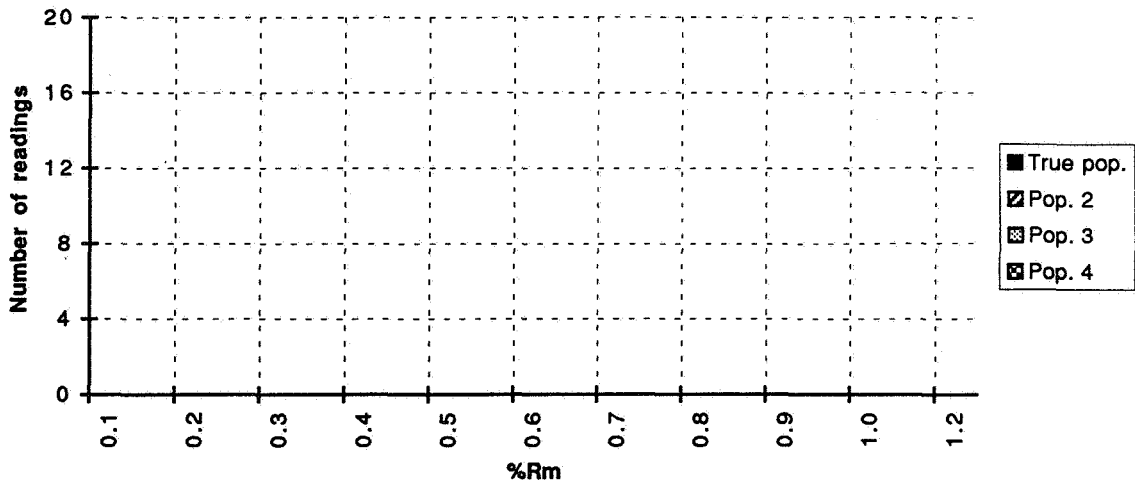
- True pop.
- Pop. 2
- Pop. 3
- Pop. 4

| IFE no.                     | 980591   | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|----------|---------------|-----------|--------|--------|--------|
| Well                        | 34/7-26S | Mean±std.dev. | 0.24±0.03 |        |        |        |
| Depth, mRKB                 | 500      | Individual    | 0.18      |        |        |        |
| Sample type                 | DC       | measurements  | 0.19      |        |        |        |
| Lithology                   | clyst    | 3             | 0.21      |        |        |        |
| Preparation                 | HF       | 4             | 0.23      |        |        |        |
| Date of analysis            | 18.06.98 | 5             | 0.23      |        |        |        |
|                             |          | 6             | 0.23      |        |        |        |
|                             |          | 7             | 0.23      |        |        |        |
| Quality rating              |          | 8             | 0.24      |        |        |        |
| Abundance of vitrinite      | O        | 9             | 0.24      |        |        |        |
| Identification of vitrinite | O        | 10            | 0.25      |        |        |        |
| Type of vitrinite           | O        | 11            | 0.25      |        |        |        |
| Particle size               | -        | 12            | 0.25      |        |        |        |
| Particle surface quality    | -        | 13            | 0.26      |        |        |        |
| Abundance of pyrite         | O        | 14            | 0.26      |        |        |        |
| Average sample quality      | M        | 15            | 0.26      |        |        |        |
|                             |          | 16            | 0.26      |        |        |        |
| Legend to quality rating    |          | 17            | 0.27      |        |        |        |
| No effect on the readings   | O        | 18            | 0.28      |        |        |        |
| Possibly too low readings   | -        | 19            | 0.30      |        |        |        |
| Possibly too high readings  | +        | 20            | 0.31      |        |        |        |
| Good quality                | G        | 21            |           |        |        |        |
| Moderate quality            | M        | 22            |           |        |        |        |
| Poor quality                | P        | 23            |           |        |        |        |
| Not vitrinite               | X        | 24            |           |        |        |        |
| Mud additive                | A        | 25            |           |        |        |        |
|                             |          | 26            |           |        |        |        |
|                             |          | 27            |           |        |        |        |
|                             |          | 28            |           |        |        |        |
|                             |          | 29            |           |        |        |        |
|                             |          | 30            |           |        |        |        |

# Vitrinite reflectance sample data sheet

| IFE no.                     | 980592   | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|----------|---------------|-----------|--------|--------|--------|
| Well                        | 34/7-26S | Mean±std.dev. | 0.23±0.04 |        |        |        |
| Depth, mRKB                 | 720      | Individual    | 0.17      |        |        |        |
| Sample type                 | DC       | measurements  | 0.19      |        |        |        |
| Lithology                   | clyst    | 3             | 0.19      |        |        |        |
| Preparation                 | HF       | 4             | 0.19      |        |        |        |
| Date of analysis            | 18.06.98 | 5             | 0.19      |        |        |        |
|                             |          | 6             | 0.20      |        |        |        |
| Quality rating              |          | 7             | 0.21      |        |        |        |
| Abundance of vitrinite      | O        | 8             | 0.21      |        |        |        |
| Identification of vitrinite | O        | 9             | 0.22      |        |        |        |
| Type of vitrinite           | O        | 10            | 0.22      |        |        |        |
| Particle size               | -        | 11            | 0.23      |        |        |        |
| Particle surface quality    | -        | 12            | 0.24      |        |        |        |
| Abundance of pyrite         | O        | 13            | 0.25      |        |        |        |
| Average sample quality      | M        | 14            | 0.25      |        |        |        |
|                             |          | 15            | 0.26      |        |        |        |
| Legend to quality rating    |          | 16            | 0.27      |        |        |        |
| No effect on the readings   | O        | 17            | 0.27      |        |        |        |
| Possibly too low readings   | -        | 18            | 0.28      |        |        |        |
| Possibly too high readings  | +        | 19            | 0.29      |        |        |        |
| Good quality                | G        | 20            | 0.30      |        |        |        |
| Moderate quality            | M        | 21            |           |        |        |        |
| Poor quality                | P        | 22            |           |        |        |        |
| Not vitrinite               | X        | 23            |           |        |        |        |
| Mud additive                | A        | 24            |           |        |        |        |
|                             |          | 25            |           |        |        |        |
| Comments                    |          | 26            |           |        |        |        |
|                             |          | 27            |           |        |        |        |
|                             |          | 28            |           |        |        |        |
|                             |          | 29            |           |        |        |        |
|                             |          | 30            |           |        |        |        |

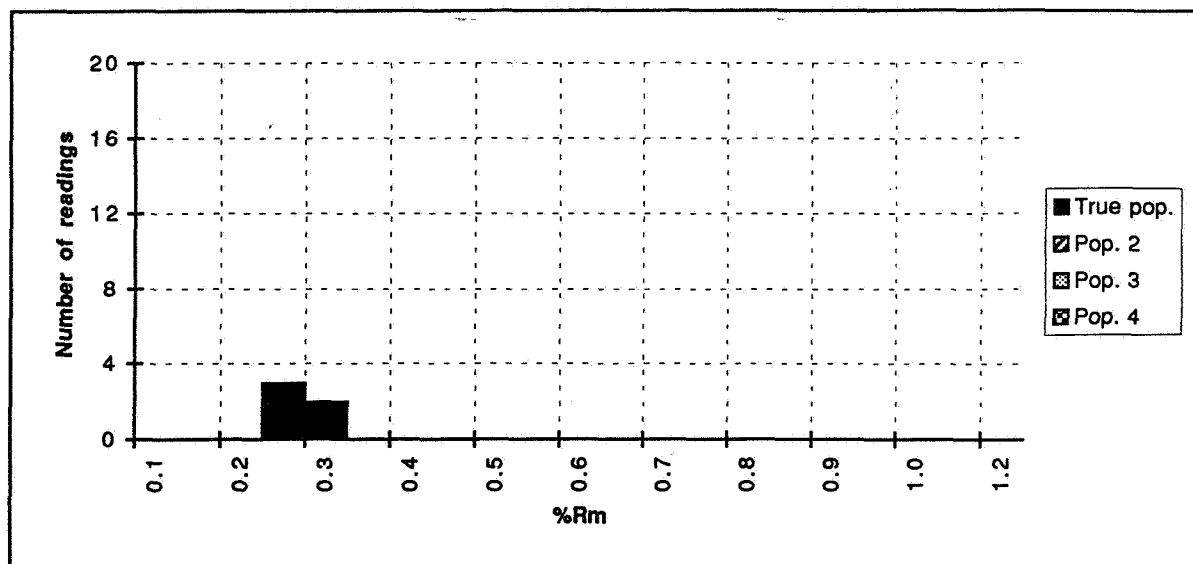
# Vitrinite reflectance sample data sheet

|  |           |               |           |        |        |        |
|------------------------------------------------------------------------------------|-----------|---------------|-----------|--------|--------|--------|
| IFE no.                                                                            | 980593    | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
| Well                                                                               | 34/7-26S  | Mean±std.dev. |           |        |        |        |
| Depth, mRKB                                                                        | 1000      | Individual    |           |        |        |        |
| Sample type                                                                        | DC        | measurements  |           |        |        |        |
| Lithology                                                                          | sst/clyst | 3             |           |        |        |        |
| Preparation                                                                        | HF        | 4             |           |        |        |        |
| Date of analysis                                                                   | 18.06.98  | 5             |           |        |        |        |
|                                                                                    |           | 6             |           |        |        |        |
| Quality rating                                                                     |           | 7             |           |        |        |        |
| Abundance of vitrinite                                                             |           | 8             |           |        |        |        |
| Identification of vitrinite                                                        |           | 9             |           |        |        |        |
| Type of vitrinite                                                                  |           | 10            |           |        |        |        |
| Particle size                                                                      |           | 11            |           |        |        |        |
| Particle surface quality                                                           |           | 12            |           |        |        |        |
| Abundance of pyrite                                                                |           | 13            |           |        |        |        |
| Average sample quality                                                             | X         | 14            |           |        |        |        |
|                                                                                    |           | 15            |           |        |        |        |
| Legend to quality rating                                                           |           | 16            |           |        |        |        |
| No effect on the readings                                                          | O         | 17            |           |        |        |        |
| Possibly too low readings                                                          | -         | 18            |           |        |        |        |
| Possibly too high readings                                                         | +         | 19            |           |        |        |        |
| Good quality                                                                       | G         | 20            |           |        |        |        |
| Moderate quality                                                                   | M         | 21            |           |        |        |        |
| Poor quality                                                                       | P         | 22            |           |        |        |        |
| Not vitrinite                                                                      | X         | 23            |           |        |        |        |
| Mud additive                                                                       | A         | 24            |           |        |        |        |
|                                                                                    |           | 25            |           |        |        |        |
| Comments                                                                           |           | 26            |           |        |        |        |
| No vitrinite found. Too little sample material.                                    |           | 27            |           |        |        |        |
|                                                                                    |           | 28            |           |        |        |        |
|                                                                                    |           | 29            |           |        |        |        |
|                                                                                    |           | 30            |           |        |        |        |

# Vitrinite reflectance sample data sheet

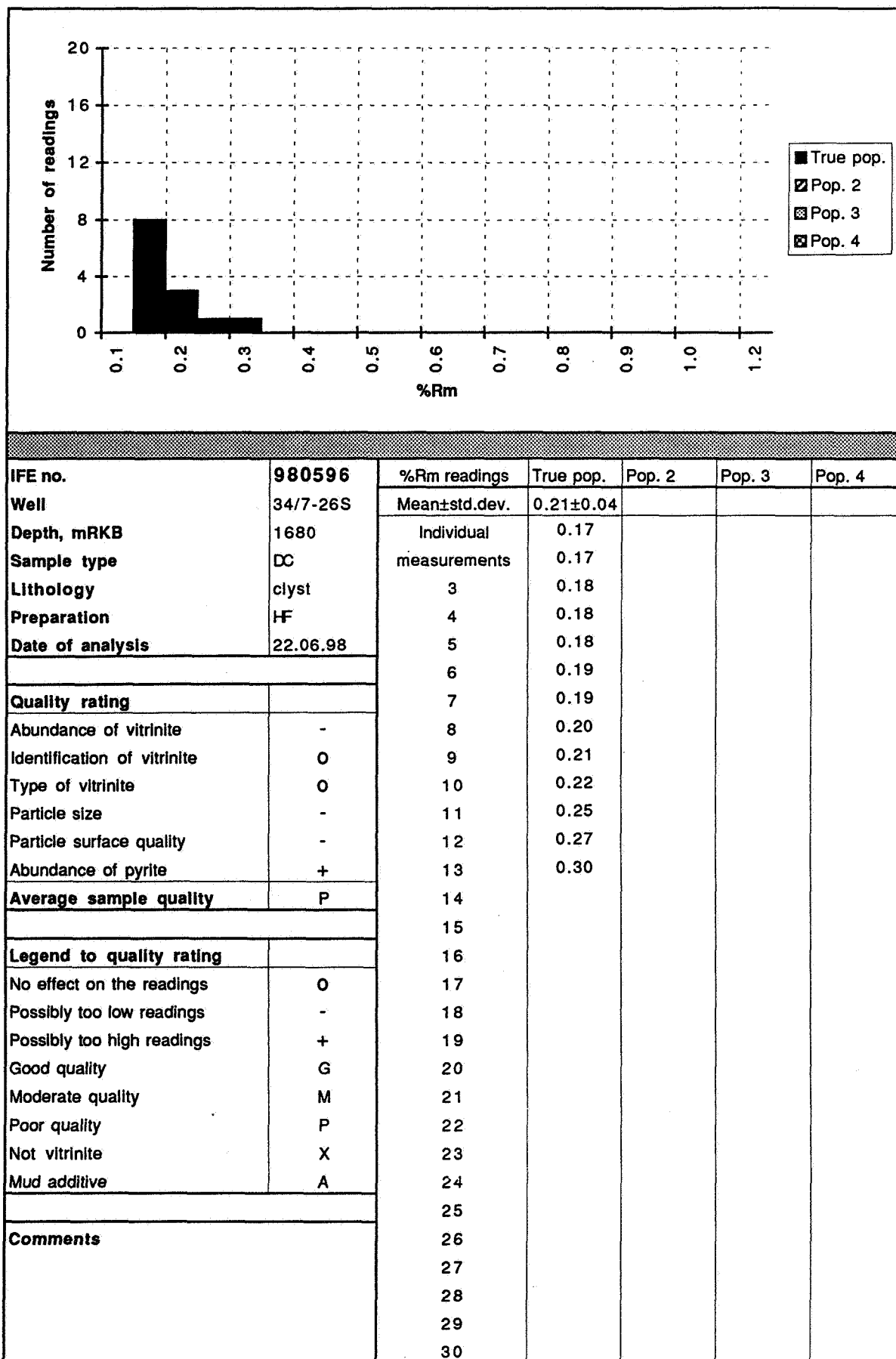
| <div> </div>                |          |               |           |        |        |        |
|-----------------------------|----------|---------------|-----------|--------|--------|--------|
| IFE no.                     | 980594   | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
| Well                        | 34/7-26S | Mean±std.dev. | 0.28±0.04 |        |        |        |
| Depth, mRKB                 | 1220     | Individual    | 0.22      |        |        |        |
| Sample type                 | DC       | measurements  | 0.24      |        |        |        |
| Lithology                   | clyst    | 3             | 0.24      |        |        |        |
| Preparation                 | HF       | 4             | 0.25      |        |        |        |
| Date of analysis            | 18.06.98 | 5             | 0.25      |        |        |        |
|                             |          | 6             | 0.25      |        |        |        |
| Quality rating              |          | 7             | 0.25      |        |        |        |
| Abundance of vitrinite      | O        | 8             | 0.26      |        |        |        |
| Identification of vitrinite | O        | 9             | 0.27      |        |        |        |
| Type of vitrinite           | O        | 10            | 0.27      |        |        |        |
| Particle size               | -        | 11            | 0.28      |        |        |        |
| Particle surface quality    | -        | 12            | 0.28      |        |        |        |
| Abundance of pyrite         | +        | 13            | 0.28      |        |        |        |
| Average sample quality      | M        | 14            | 0.28      |        |        |        |
|                             |          | 15            | 0.29      |        |        |        |
| Legend to quality rating    |          | 16            | 0.31      |        |        |        |
| No effect on the readings   | O        | 17            | 0.31      |        |        |        |
| Possibly too low readings   | -        | 18            | 0.32      |        |        |        |
| Possibly too high readings  | +        | 19            | 0.34      |        |        |        |
| Good quality                | G        | 20            | 0.39      |        |        |        |
| Moderate quality            | M        | 21            |           |        |        |        |
| Poor quality                | P        | 22            |           |        |        |        |
| Not vitrinite               | X        | 23            |           |        |        |        |
| Mud additive                | A        | 24            |           |        |        |        |
|                             |          | 25            |           |        |        |        |
| Comments                    |          | 26            |           |        |        |        |
|                             |          | 27            |           |        |        |        |
|                             |          | 28            |           |        |        |        |
|                             |          | 29            |           |        |        |        |
|                             |          | 30            |           |        |        |        |

# Vitrinite reflectance sample data sheet

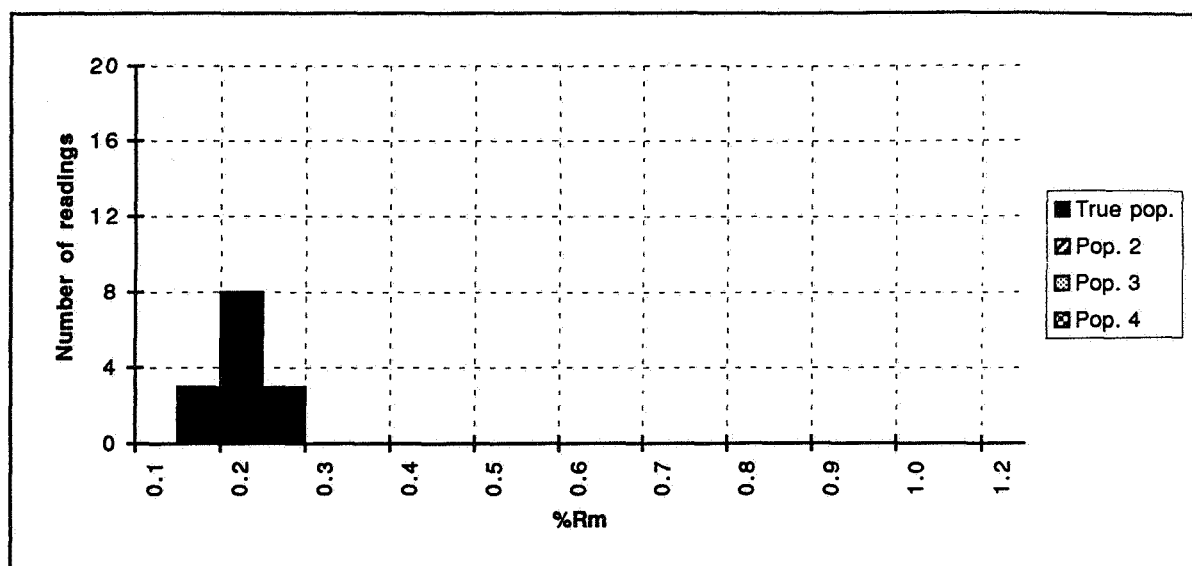


| IFE no.                     | 980595   | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|----------|---------------|-----------|--------|--------|--------|
| Well                        | 34/7-26S | Mean±std.dev. | 0.29±0.03 |        |        |        |
| Depth, mRKB                 | 1380     | Individual    | 0.25      |        |        |        |
| Sample type                 | DC       | measurements  | 0.26      |        |        |        |
| Lithology                   | clyst    | 3             | 0.28      |        |        |        |
| Preparation                 | HF       | 4             | 0.32      |        |        |        |
| Date of analysis            | 18.06.98 | 5             | 0.32      |        |        |        |
|                             |          | 6             |           |        |        |        |
|                             |          | 7             |           |        |        |        |
| Quality rating              |          | 8             |           |        |        |        |
| Abundance of vitrinite      | -        | 9             |           |        |        |        |
| Identification of vitrinite | O        | 10            |           |        |        |        |
| Type of vitrinite           | O        | 11            |           |        |        |        |
| Particle size               | -        | 12            |           |        |        |        |
| Particle surface quality    | -        | 13            |           |        |        |        |
| Abundance of pyrite         | +        | 14            |           |        |        |        |
| Average sample quality      | P        | 15            |           |        |        |        |
|                             |          | 16            |           |        |        |        |
| Legend to quality rating    |          | 17            |           |        |        |        |
| No effect on the readings   | O        | 18            |           |        |        |        |
| Possibly too low readings   | -        | 19            |           |        |        |        |
| Possibly too high readings  | +        | 20            |           |        |        |        |
| Good quality                | G        | 21            |           |        |        |        |
| Moderate quality            | M        | 22            |           |        |        |        |
| Poor quality                | P        | 23            |           |        |        |        |
| Not vitrinite               | X        | 24            |           |        |        |        |
| Mud additive                | A        | 25            |           |        |        |        |
|                             |          | 26            |           |        |        |        |
| Comments                    |          | 27            |           |        |        |        |
|                             |          | 28            |           |        |        |        |
|                             |          | 29            |           |        |        |        |
|                             |          | 30            |           |        |        |        |

# Vitrinite reflectance sample data sheet

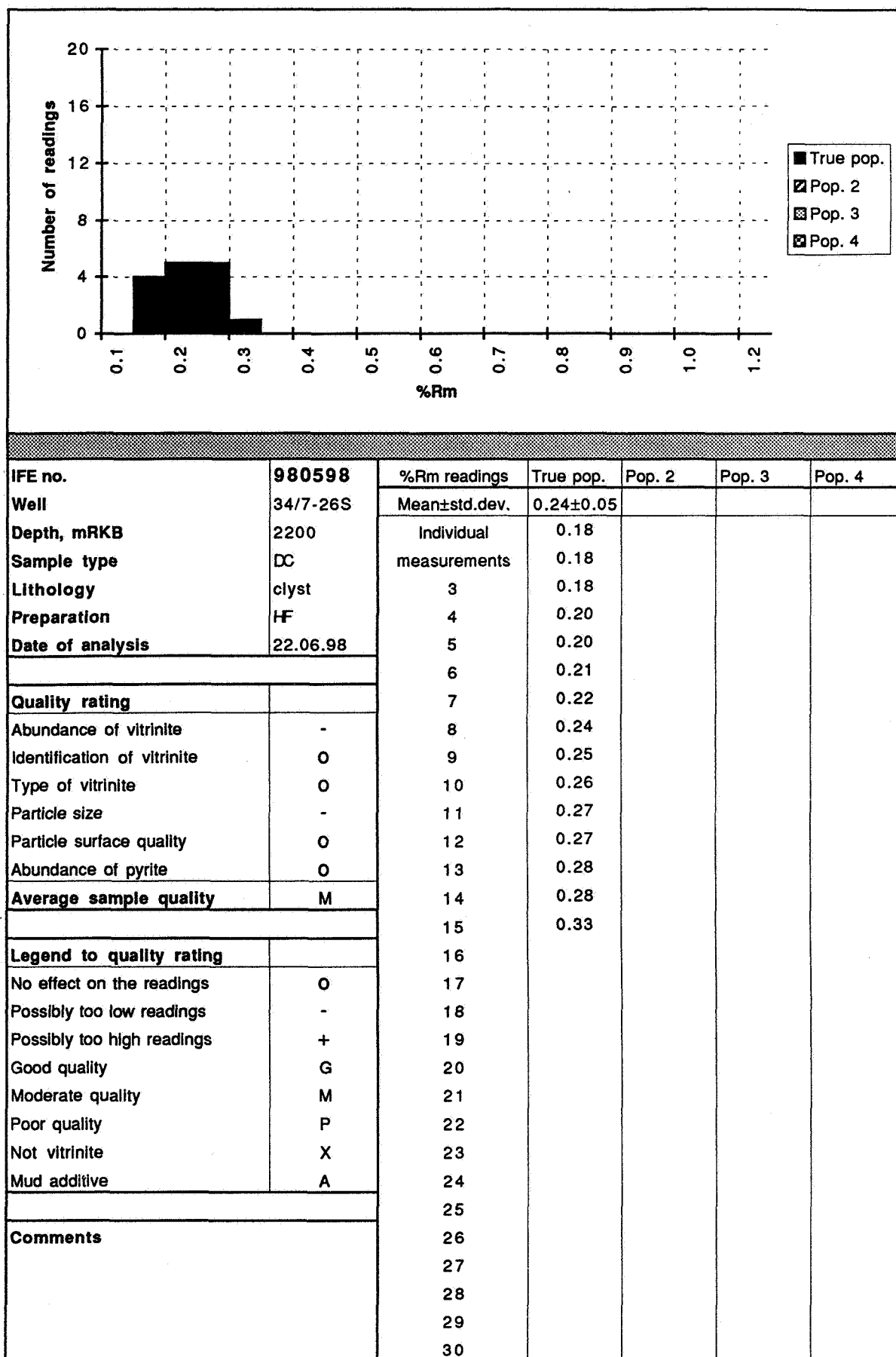


# Vitrinite reflectance sample data sheet

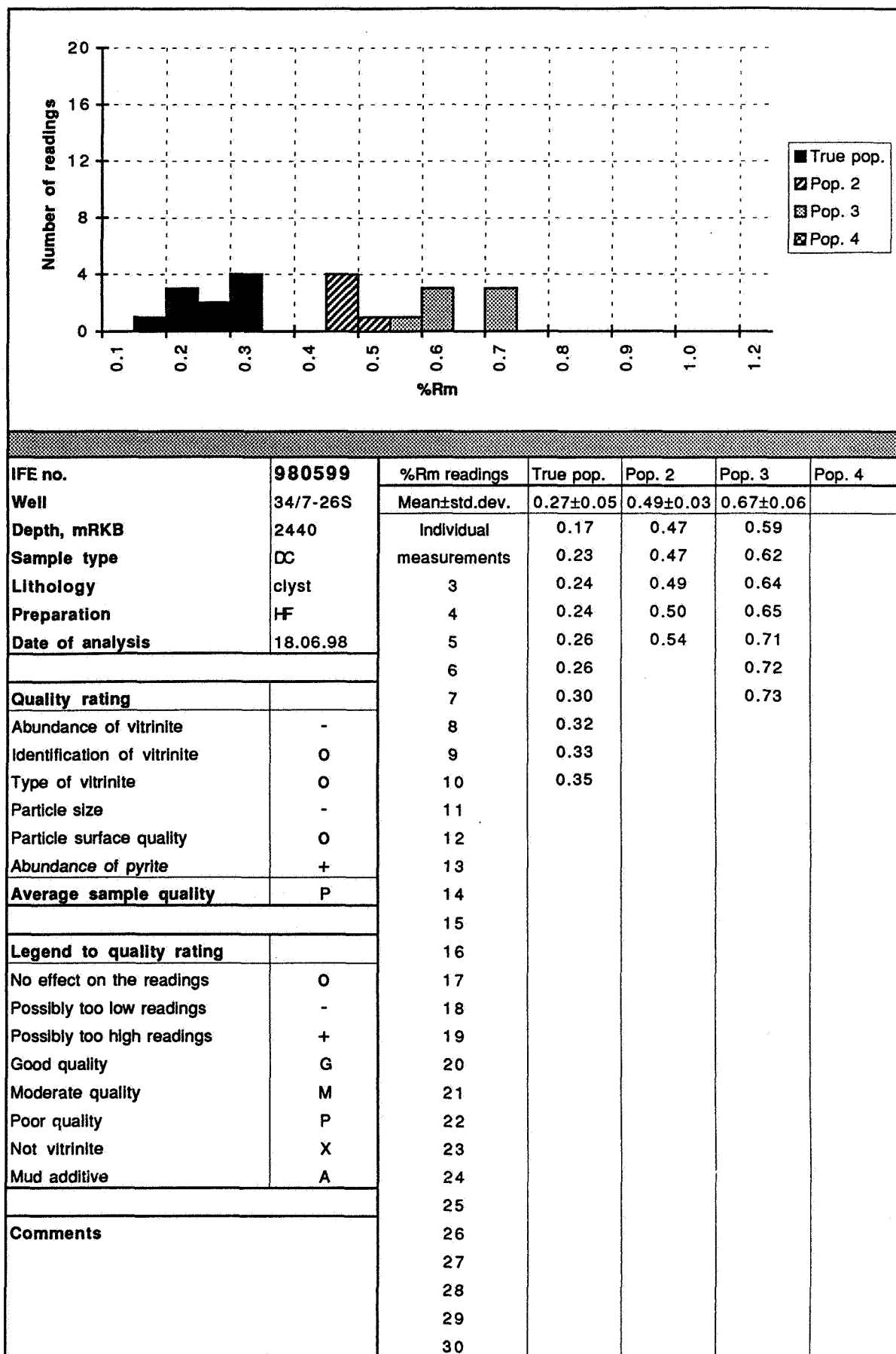


| IFE no.                     | 980597   | %Rm readings            | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|----------|-------------------------|-----------|--------|--------|--------|
| Well                        | 34/7-26S | Mean±std.dev.           | 0.23±0.03 |        |        |        |
| Depth, mRKB                 | 1920     | Individual measurements | 0.18      |        |        |        |
| Sample type                 | DC       |                         | 0.20      |        |        |        |
| Lithology                   | clyst    | 3                       | 0.20      |        |        |        |
| Preparation                 | HF       | 4                       | 0.21      |        |        |        |
| Date of analysis            | 22.06.98 | 5                       | 0.21      |        |        |        |
|                             |          | 6                       | 0.22      |        |        |        |
|                             |          | 7                       | 0.22      |        |        |        |
| Quality rating              |          | 8                       | 0.22      |        |        |        |
| Abundance of vitrinite      | -        | 9                       | 0.23      |        |        |        |
| Identification of vitrinite | O        | 10                      | 0.23      |        |        |        |
| Type of vitrinite           | O        | 11                      | 0.25      |        |        |        |
| Particle size               | -        | 12                      | 0.26      |        |        |        |
| Particle surface quality    | -        | 13                      | 0.26      |        |        |        |
| Abundance of pyrite         | O        | 14                      | 0.29      |        |        |        |
| Average sample quality      | M        | 15                      |           |        |        |        |
|                             |          | 16                      |           |        |        |        |
| Legend to quality rating    |          | 17                      |           |        |        |        |
| No effect on the readings   | O        | 18                      |           |        |        |        |
| Possibly too low readings   | -        | 19                      |           |        |        |        |
| Possibly too high readings  | +        | 20                      |           |        |        |        |
| Good quality                | G        | 21                      |           |        |        |        |
| Moderate quality            | M        | 22                      |           |        |        |        |
| Poor quality                | P        | 23                      |           |        |        |        |
| Not vitrinite               | X        | 24                      |           |        |        |        |
| Mud additive                | A        | 25                      |           |        |        |        |
|                             |          | 26                      |           |        |        |        |
| Comments                    |          | 27                      |           |        |        |        |
|                             |          | 28                      |           |        |        |        |
|                             |          | 29                      |           |        |        |        |
|                             |          | 30                      |           |        |        |        |

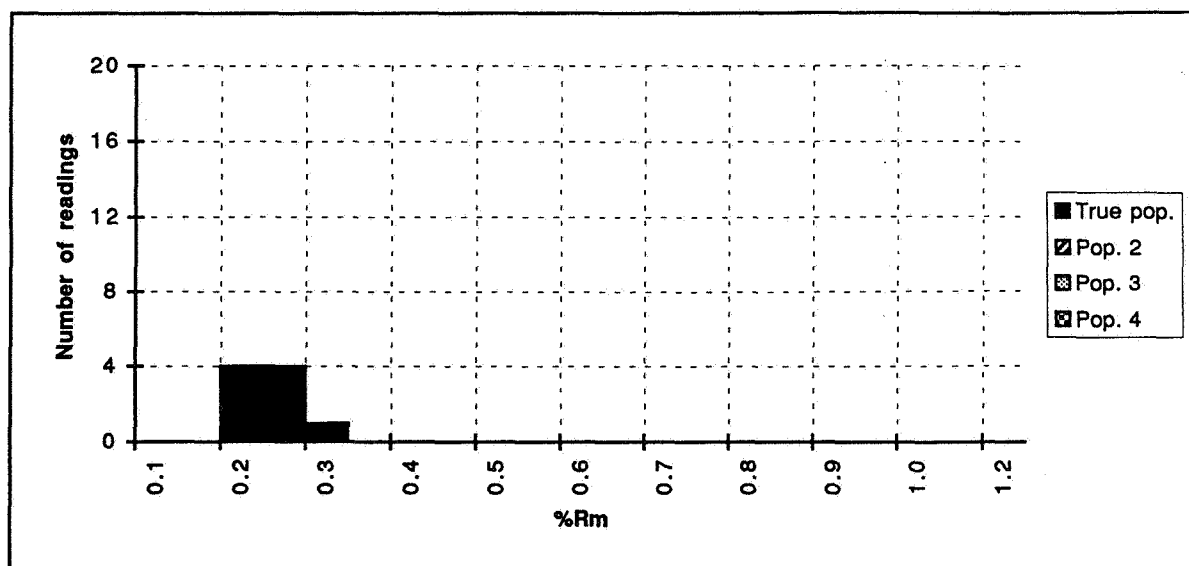
# Vitrinite reflectance sample data sheet



# Vitrinite reflectance sample data sheet

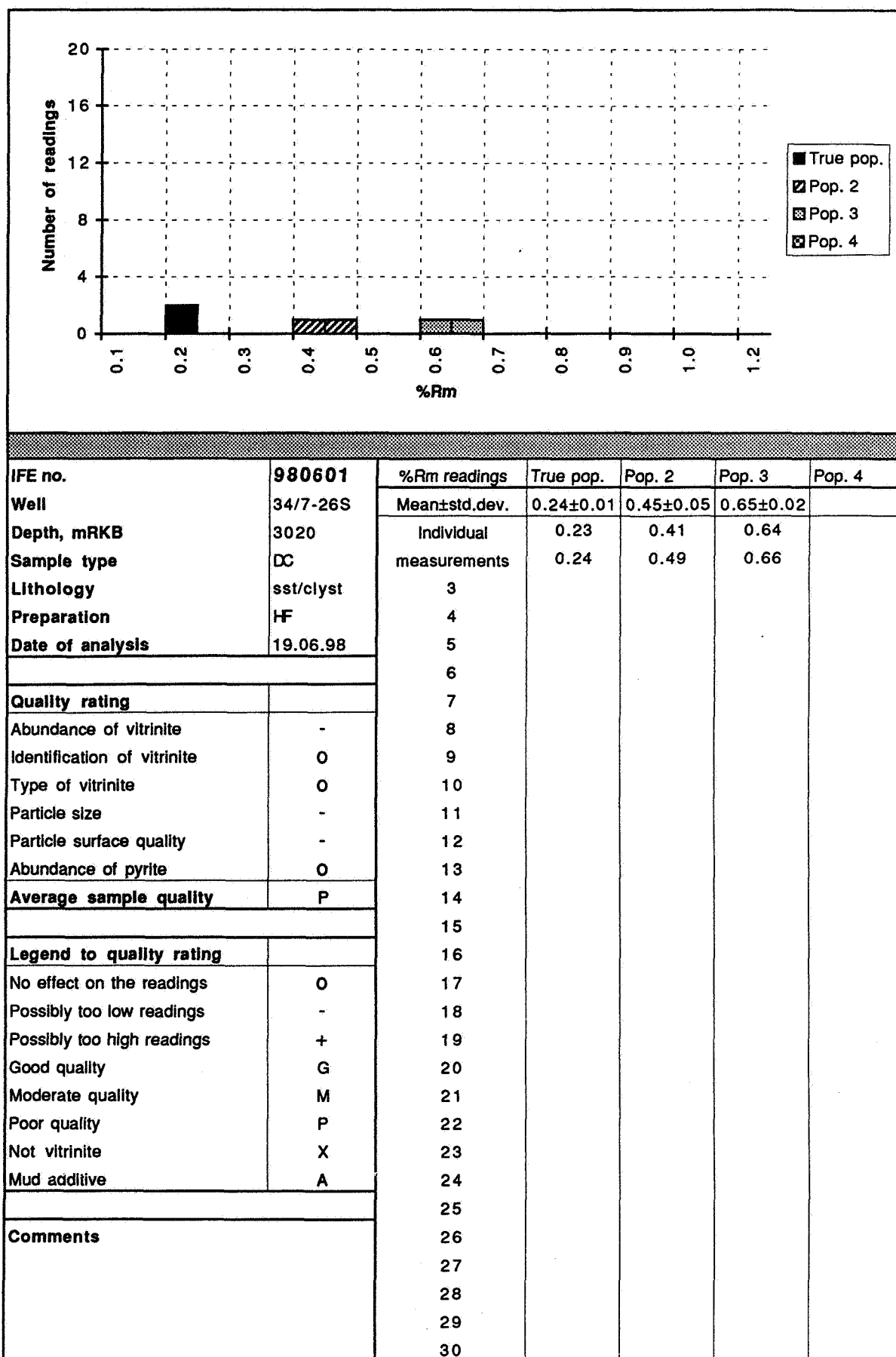


# Vitrinite reflectance sample data sheet



|                             |          |                         |           |        |        |        |
|-----------------------------|----------|-------------------------|-----------|--------|--------|--------|
| IFE no.                     | 980600   | %Rm readings            | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
| Well                        | 34/7-26S | Mean±std.dev.           | 0.27±0.05 |        |        |        |
| Depth, mRKB                 | 2700     | Individual measurements | 0.22      |        |        |        |
| Sample type                 | DC       | 3                       | 0.22      |        |        |        |
| Lithology                   | clyst    | 4                       | 0.24      |        |        |        |
| Preparation                 | HF       | 5                       | 0.27      |        |        |        |
| Date of analysis            | 22.06.98 | 6                       | 0.29      |        |        |        |
|                             |          | 7                       | 0.30      |        |        |        |
| Quality rating              |          | 8                       | 0.30      |        |        |        |
| Abundance of vitrinite      | -        | 9                       | 0.34      |        |        |        |
| Identification of vitrinite | 0        | 10                      |           |        |        |        |
| Type of vitrinite           | 0        | 11                      |           |        |        |        |
| Particle size               | -        | 12                      |           |        |        |        |
| Particle surface quality    | 0        | 13                      |           |        |        |        |
| Abundance of pyrite         | +        | 14                      |           |        |        |        |
| Average sample quality      | P        | 15                      |           |        |        |        |
|                             |          | 16                      |           |        |        |        |
| Legend to quality rating    |          | 17                      |           |        |        |        |
| No effect on the readings   | 0        | 18                      |           |        |        |        |
| Possibly too low readings   | -        | 19                      |           |        |        |        |
| Possibly too high readings  | +        | 20                      |           |        |        |        |
| Good quality                | G        | 21                      |           |        |        |        |
| Moderate quality            | M        | 22                      |           |        |        |        |
| Poor quality                | P        | 23                      |           |        |        |        |
| Not vitrinite               | X        | 24                      |           |        |        |        |
| Mud additive                | A        | 25                      |           |        |        |        |
|                             |          | 26                      |           |        |        |        |
| Comments                    |          | 27                      |           |        |        |        |
|                             |          | 28                      |           |        |        |        |
|                             |          | 29                      |           |        |        |        |
|                             |          | 30                      |           |        |        |        |

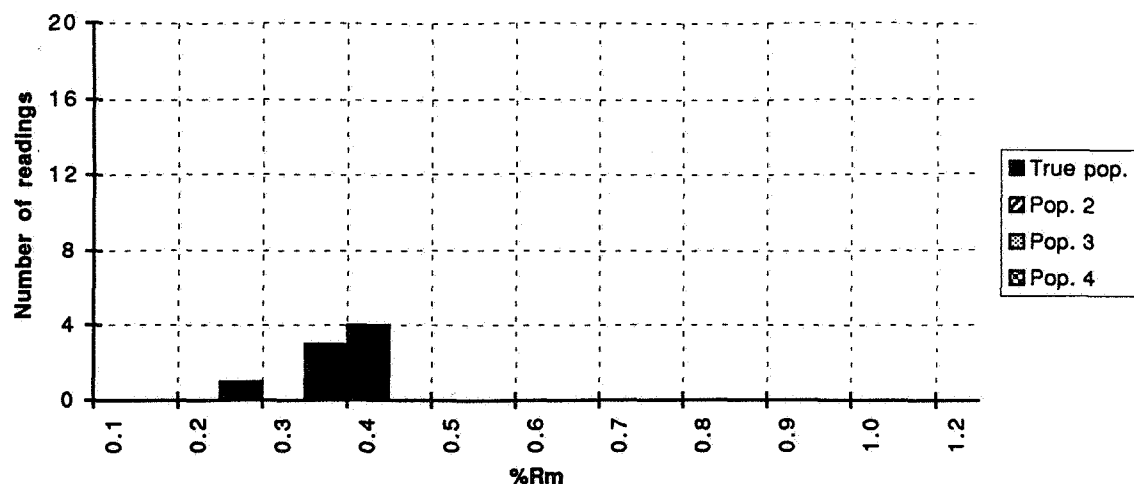
# Vitrinite reflectance sample data sheet



# Vitrinite reflectance sample data sheet

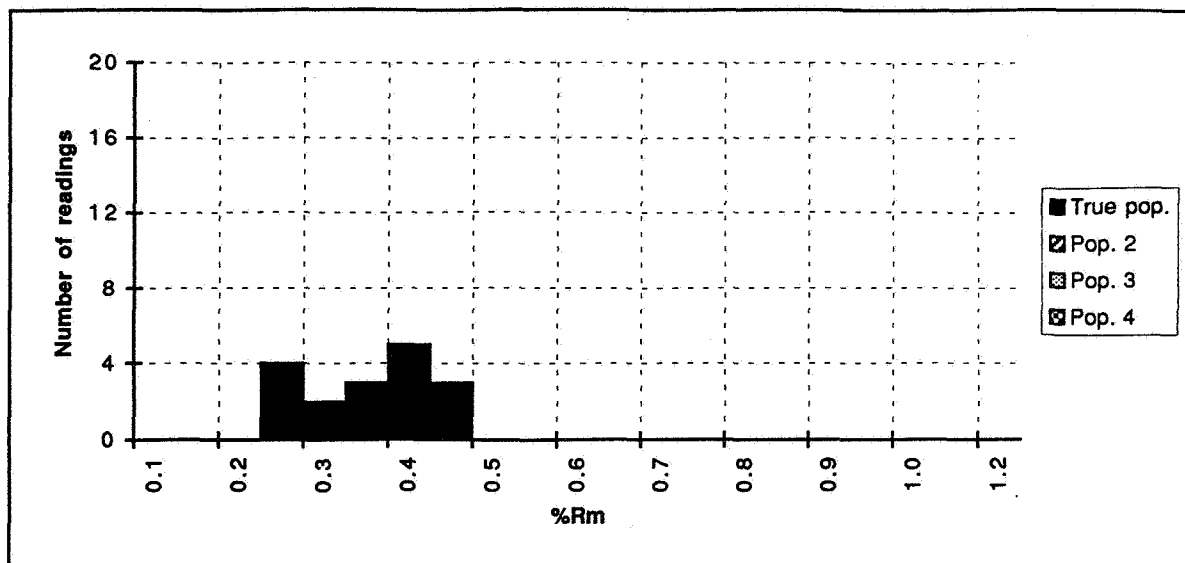
| IFE no.                     | 980602   | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|----------|---------------|-----------|--------|--------|--------|
| Well                        | 34/7-26S | Mean±std.dev. |           |        |        |        |
| Depth, mRKB                 | 3220     | Individual    |           |        |        |        |
| Sample type                 | DC       | measurements  |           |        |        |        |
| Lithology                   | clyst    | 3             |           |        |        |        |
| Preparation                 | HF       | 4             |           |        |        |        |
| Date of analysis            | 22.06.98 | 5             |           |        |        |        |
|                             |          | 6             |           |        |        |        |
| Quality rating              |          | 7             |           |        |        |        |
| Abundance of vitrinite      |          | 8             |           |        |        |        |
| Identification of vitrinite |          | 9             |           |        |        |        |
| Type of vitrinite           |          | 10            |           |        |        |        |
| Particle size               |          | 11            |           |        |        |        |
| Particle surface quality    |          | 12            |           |        |        |        |
| Abundance of pyrite         |          | 13            |           |        |        |        |
| Average sample quality      | X        | 14            |           |        |        |        |
|                             |          | 15            |           |        |        |        |
| Legend to quality rating    |          | 16            |           |        |        |        |
| No effect on the readings   | O        | 17            |           |        |        |        |
| Possibly too low readings   | -        | 18            |           |        |        |        |
| Possibly too high readings  | +        | 19            |           |        |        |        |
| Good quality                | G        | 20            |           |        |        |        |
| Moderate quality            | M        | 21            |           |        |        |        |
| Poor quality                | P        | 22            |           |        |        |        |
| Not vitrinite               | X        | 23            |           |        |        |        |
| Mud additive                | A        | 24            |           |        |        |        |
|                             |          | 25            |           |        |        |        |
| Comments                    |          | 26            |           |        |        |        |
| Too little vitrinite found. |          | 27            |           |        |        |        |
|                             |          | 28            |           |        |        |        |
|                             |          | 29            |           |        |        |        |
|                             |          | 30            |           |        |        |        |

## Vitrinite reflectance sample data sheet



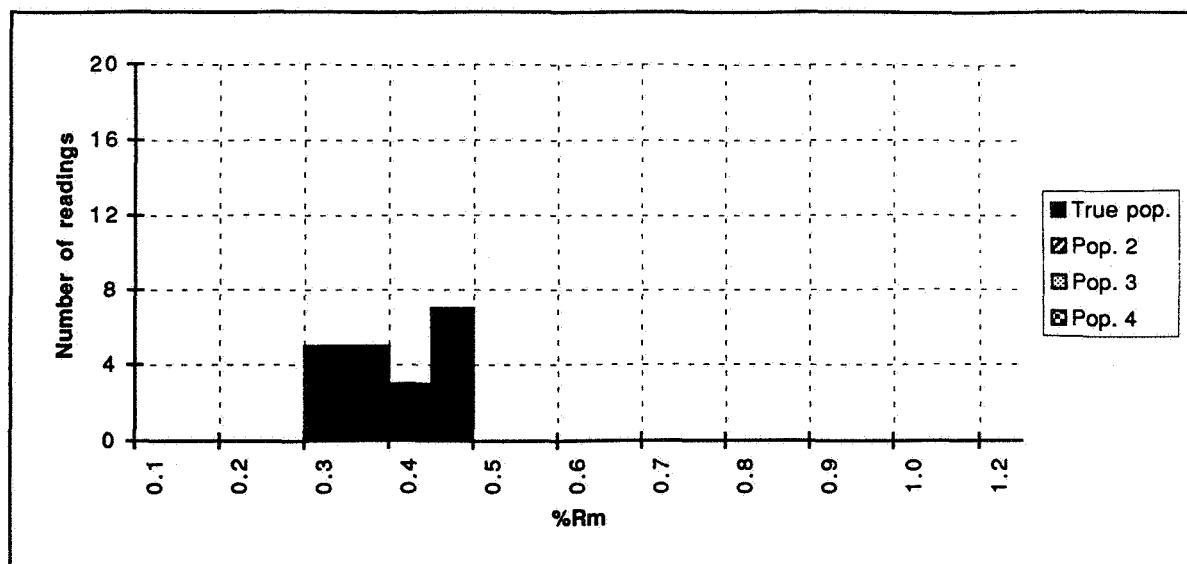
| IFE no.                     | 980603   | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|----------|---------------|-----------|--------|--------|--------|
| Well                        | 34/7-26S | Mean±std.dev. | 0.38±0.06 |        |        |        |
| Depth, mRKB                 | 3500     | Individual    | 0.25      |        |        |        |
| Sample type                 | DC       | measurements  | 0.37      |        |        |        |
| Lithology                   | clyst    | 3             | 0.37      |        |        |        |
| Preparation                 | Hf       | 4             | 0.39      |        |        |        |
| Date of analysis            | 22.06.98 | 5             | 0.41      |        |        |        |
|                             |          | 6             | 0.42      |        |        |        |
| Quality rating              |          | 7             | 0.43      |        |        |        |
| Abundance of vitrinite      | -        | 8             | 0.44      |        |        |        |
| Identification of vitrinite | O        | 9             |           |        |        |        |
| Type of vitrinite           | O        | 10            |           |        |        |        |
| Particle size               | -        | 11            |           |        |        |        |
| Particle surface quality    | -        | 12            |           |        |        |        |
| Abundance of pyrite         | O        | 13            |           |        |        |        |
| Average sample quality      | P        | 14            |           |        |        |        |
|                             |          | 15            |           |        |        |        |
| Legend to quality rating    |          | 16            |           |        |        |        |
| No effect on the readings   | O        | 17            |           |        |        |        |
| Possibly too low readings   | -        | 18            |           |        |        |        |
| Possibly too high readings  | +        | 19            |           |        |        |        |
| Good quality                | G        | 20            |           |        |        |        |
| Moderate quality            | M        | 21            |           |        |        |        |
| Poor quality                | P        | 22            |           |        |        |        |
| Not vitrinite               | X        | 23            |           |        |        |        |
| Mud additive                | A        | 24            |           |        |        |        |
|                             |          | 25            |           |        |        |        |
| Comments                    |          | 26            |           |        |        |        |
|                             |          | 27            |           |        |        |        |
|                             |          | 28            |           |        |        |        |
|                             |          | 29            |           |        |        |        |
|                             |          | 30            |           |        |        |        |

# Vitrinite reflectance sample data sheet



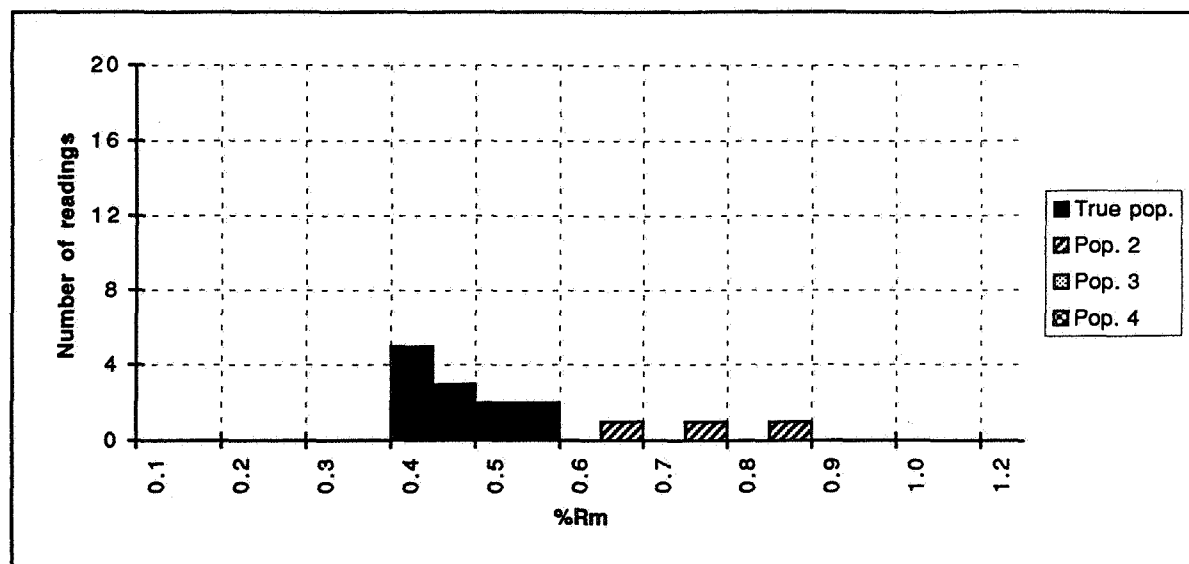
| IFE no.                     |  | 980604   | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|--|----------|---------------|-----------|--------|--------|--------|
| Well                        |  | 34/7-26S | Mean±std.dev. | 0.38±0.07 |        |        |        |
| Depth, mRKB                 |  | 3740     | Individual    | 0.26      |        |        |        |
| Sample type                 |  | DC       | measurements  | 0.29      |        |        |        |
| Lithology                   |  | clyst    | 3             | 0.29      |        |        |        |
| Preparation                 |  | HF       | 4             | 0.29      |        |        |        |
| Date of analysis            |  | 22.06.98 | 5             | 0.34      |        |        |        |
|                             |  |          | 6             | 0.34      |        |        |        |
| Quality rating              |  |          | 7             | 0.37      |        |        |        |
| Abundance of vitrinite      |  | -        | 8             | 0.37      |        |        |        |
| Identification of vitrinite |  | O        | 9             | 0.37      |        |        |        |
| Type of vitrinite           |  | O        | 10            | 0.40      |        |        |        |
| Particle size               |  | -        | 11            | 0.42      |        |        |        |
| Particle surface quality    |  | -        | 12            | 0.42      |        |        |        |
| Abundance of pyrite         |  | O        | 13            | 0.43      |        |        |        |
| Average sample quality      |  | P        | 14            | 0.44      |        |        |        |
|                             |  |          | 15            | 0.46      |        |        |        |
| Legend to quality rating    |  |          | 16            | 0.47      |        |        |        |
| No effect on the readings   |  | O        | 17            | 0.48      |        |        |        |
| Possibly too low readings   |  | -        | 18            |           |        |        |        |
| Possibly too high readings  |  | +        | 19            |           |        |        |        |
| Good quality                |  | G        | 20            |           |        |        |        |
| Moderate quality            |  | M        | 21            |           |        |        |        |
| Poor quality                |  | P        | 22            |           |        |        |        |
| Not vitrinite               |  | X        | 23            |           |        |        |        |
| Mud additive                |  | A        | 24            |           |        |        |        |
|                             |  |          | 25            |           |        |        |        |
| Comments                    |  |          | 26            |           |        |        |        |
|                             |  |          | 27            |           |        |        |        |
|                             |  |          | 28            |           |        |        |        |
|                             |  |          | 29            |           |        |        |        |
|                             |  |          | 30            |           |        |        |        |

# Vitrinite reflectance sample data sheet



| IFE no.                     |  | 980605   | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|--|----------|---------------|-----------|--------|--------|--------|
| Well                        |  | 34/7-26S | Mean±std.dev. | 0.40±0.06 |        |        |        |
| Depth, mRKB                 |  | 4030     | Individual    | 0.31      |        |        |        |
| Sample type                 |  | DC       | measurements  | 0.32      |        |        |        |
| Lithology                   |  | clyst    | 3             | 0.33      |        |        |        |
| Preparation                 |  | HF       | 4             | 0.34      |        |        |        |
| Date of analysis            |  | 22.06.98 | 5             | 0.35      |        |        |        |
|                             |  |          | 6             | 0.36      |        |        |        |
| Quality rating              |  |          | 7             | 0.37      |        |        |        |
| Abundance of vitrinite      |  | O        | 8             | 0.37      |        |        |        |
| Identification of vitrinite |  | O        | 9             | 0.38      |        |        |        |
| Type of vitrinite           |  | O        | 10            | 0.39      |        |        |        |
| Particle size               |  | -        | 11            | 0.40      |        |        |        |
| Particle surface quality    |  | -        | 12            | 0.42      |        |        |        |
| Abundance of pyrite         |  | O        | 13            | 0.44      |        |        |        |
| Average sample quality      |  | M        | 14            | 0.45      |        |        |        |
|                             |  |          | 15            | 0.45      |        |        |        |
| Legend to quality rating    |  |          | 16            | 0.47      |        |        |        |
| No effect on the readings   |  | O        | 17            | 0.47      |        |        |        |
| Possibly too low readings   |  | -        | 18            | 0.47      |        |        |        |
| Possibly too high readings  |  | +        | 19            | 0.48      |        |        |        |
| Good quality                |  | G        | 20            | 0.49      |        |        |        |
| Moderate quality            |  | M        | 21            |           |        |        |        |
| Poor quality                |  | P        | 22            |           |        |        |        |
| Not vitrinite               |  | X        | 23            |           |        |        |        |
| Mud additive                |  | A        | 24            |           |        |        |        |
|                             |  |          | 25            |           |        |        |        |
| Comments                    |  |          | 26            |           |        |        |        |
|                             |  |          | 27            |           |        |        |        |
|                             |  |          | 28            |           |        |        |        |
|                             |  |          | 29            |           |        |        |        |
|                             |  |          | 30            |           |        |        |        |

# Vitrinite reflectance sample data sheet



| IFE no.                     | 980606   | %Rm readings  | True pop. | Pop. 2    | Pop. 3 | Pop. 4 |
|-----------------------------|----------|---------------|-----------|-----------|--------|--------|
| Well                        | 34/7-26S | Mean±std.dev. | 0.47±0.06 | 0.79±0.09 |        |        |
| Depth, mRKB                 | 4270     | Individual    | 0.40      | 0.70      |        |        |
| Sample type                 | DC       | measurements  | 0.41      | 0.80      |        |        |
| Lithology                   | clst/sst | 3             | 0.41      | 0.88      |        |        |
| Preparation                 | HF       | 4             | 0.43      |           |        |        |
| Date of analysis            | 22.06.98 | 5             | 0.43      |           |        |        |
|                             |          | 6             | 0.46      |           |        |        |
| Quality rating              |          | 7             | 0.48      |           |        |        |
| Abundance of vitrinite      | -        | 8             | 0.49      |           |        |        |
| Identification of vitrinite | O        | 9             | 0.50      |           |        |        |
| Type of vitrinite           | O        | 10            | 0.52      |           |        |        |
| Particle size               | -        | 11            | 0.58      |           |        |        |
| Particle surface quality    | -        | 12            | 0.59      |           |        |        |
| Abundance of pyrite         | O        | 13            |           |           |        |        |
| Average sample quality      | P        | 14            |           |           |        |        |
|                             |          | 15            |           |           |        |        |
| Legend to quality rating    |          | 16            |           |           |        |        |
| No effect on the readings   | O        | 17            |           |           |        |        |
| Possibly too low readings   | -        | 18            |           |           |        |        |
| Possibly too high readings  | +        | 19            |           |           |        |        |
| Good quality                | G        | 20            |           |           |        |        |
| Moderate quality            | M        | 21            |           |           |        |        |
| Poor quality                | P        | 22            |           |           |        |        |
| Not vitrinite               | X        | 23            |           |           |        |        |
| Mud additive                | A        | 24            |           |           |        |        |
|                             |          | 25            |           |           |        |        |
| Comments                    |          | 26            |           |           |        |        |
|                             |          | 27            |           |           |        |        |
|                             |          | 28            |           |           |        |        |
|                             |          | 29            |           |           |        |        |
|                             |          | 30            |           |           |        |        |

**Number of readings**

**%Rm**

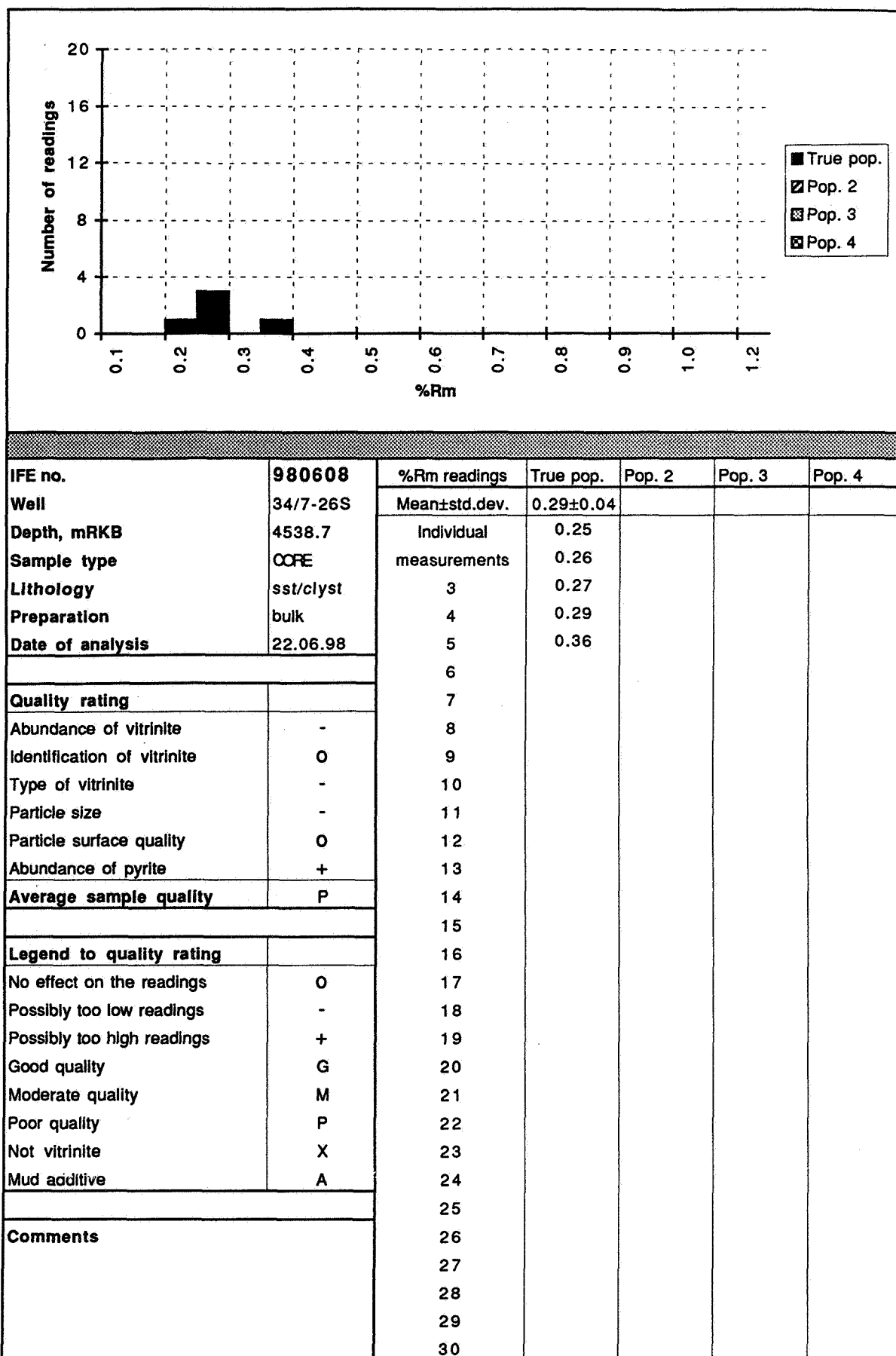
Legend:

- True pop.
- Pop. 2
- Pop. 3
- Pop. 4

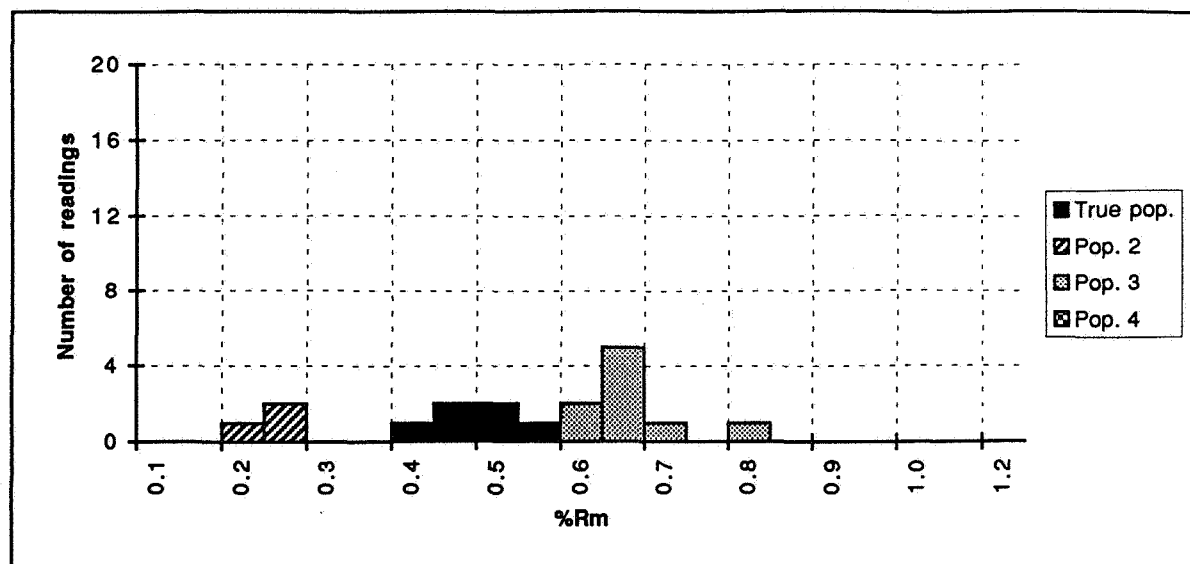
| IFE no.                     | 980607   | %Rm readings            | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|----------|-------------------------|-----------|--------|--------|--------|
| Well                        | 34/7-26S | Mean±std.dev.           | 0.40±0.05 |        |        |        |
| Depth, mRKB                 | 4380     | Individual measurements | 0.29      |        |        |        |
| Sample type                 | DC       |                         | 0.34      |        |        |        |
| Lithology                   | clyst    | 3                       | 0.36      |        |        |        |
| Preparation                 | HF       | 4                       | 0.36      |        |        |        |
| Date of analysis            | 22.06.98 | 5                       | 0.37      |        |        |        |
|                             |          | 6                       | 0.38      |        |        |        |
| Quality rating              |          | 7                       | 0.39      |        |        |        |
| Abundance of vitrinite      | O        | 8                       | 0.39      |        |        |        |
| Identification of vitrinite | O        | 9                       | 0.39      |        |        |        |
| Type of vitrinite           | O        | 10                      | 0.39      |        |        |        |
| Particle size               | -        | 11                      | 0.40      |        |        |        |
| Particle surface quality    | O        | 12                      | 0.40      |        |        |        |
| Abundance of pyrite         | +        | 13                      | 0.41      |        |        |        |
| Average sample quality      | M        | 14                      | 0.41      |        |        |        |
|                             |          | 15                      | 0.41      |        |        |        |
| Legend to quality rating    |          | 16                      | 0.42      |        |        |        |
| No effect on the readings   | O        | 17                      | 0.45      |        |        |        |
| Possibly too low readings   | -        | 18                      | 0.45      |        |        |        |
| Possibly too high readings  | +        | 19                      | 0.46      |        |        |        |
| Good quality                | G        | 20                      | 0.48      |        |        |        |
| Moderate quality            | M        | 21                      | 0.51      |        |        |        |
| Poor quality                | P        | 22                      |           |        |        |        |
| Not vitrinite               | X        | 23                      |           |        |        |        |
| Mud additive                | A        | 24                      |           |        |        |        |
|                             |          | 25                      |           |        |        |        |
| Comments                    |          | 26                      |           |        |        |        |
|                             |          | 27                      |           |        |        |        |
|                             |          | 28                      |           |        |        |        |
|                             |          | 29                      |           |        |        |        |
|                             |          | 30                      |           |        |        |        |

| IFE no.                     | 980607   | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|----------|---------------|-----------|--------|--------|--------|
| Well                        | 34/7-26S | Mean±std.dev. | 0.40±0.05 |        |        |        |
| Depth, mRKB                 | 4380     | Individual    | 0.29      |        |        |        |
| Sample type                 | DC       | measurements  | 0.34      |        |        |        |
| Lithology                   | clyst    | 3             | 0.36      |        |        |        |
| Preparation                 | HF       | 4             | 0.36      |        |        |        |
| Date of analysis            | 22.06.98 | 5             | 0.37      |        |        |        |
|                             |          | 6             | 0.38      |        |        |        |
| Quality rating              |          | 7             | 0.39      |        |        |        |
| Abundance of vitrinite      | O        | 8             | 0.39      |        |        |        |
| Identification of vitrinite | O        | 9             | 0.39      |        |        |        |
| Type of vitrinite           | O        | 10            | 0.39      |        |        |        |
| Particle size               | -        | 11            | 0.40      |        |        |        |
| Particle surface quality    | O        | 12            | 0.40      |        |        |        |
| Abundance of pyrite         | +        | 13            | 0.41      |        |        |        |
| Average sample quality      | M        | 14            | 0.41      |        |        |        |
|                             |          | 15            | 0.41      |        |        |        |
| Legend to quality rating    |          | 16            | 0.42      |        |        |        |
| No effect on the readings   | O        | 17            | 0.45      |        |        |        |
| Possibly too low readings   | -        | 18            | 0.45      |        |        |        |
| Possibly too high readings  | +        | 19            | 0.46      |        |        |        |
| Good quality                | G        | 20            | 0.48      |        |        |        |
| Moderate quality            | M        | 21            | 0.51      |        |        |        |
| Poor quality                | P        | 22            |           |        |        |        |
| Not vitrinite               | X        | 23            |           |        |        |        |
| Mud additive                | A        | 24            |           |        |        |        |
|                             |          | 25            |           |        |        |        |
| Comments                    |          | 26            |           |        |        |        |
|                             |          | 27            |           |        |        |        |
|                             |          | 28            |           |        |        |        |
|                             |          | 29            |           |        |        |        |
|                             |          | 30            |           |        |        |        |

# Vitrinite reflectance sample data sheet



# Vitrinite reflectance sample data sheet

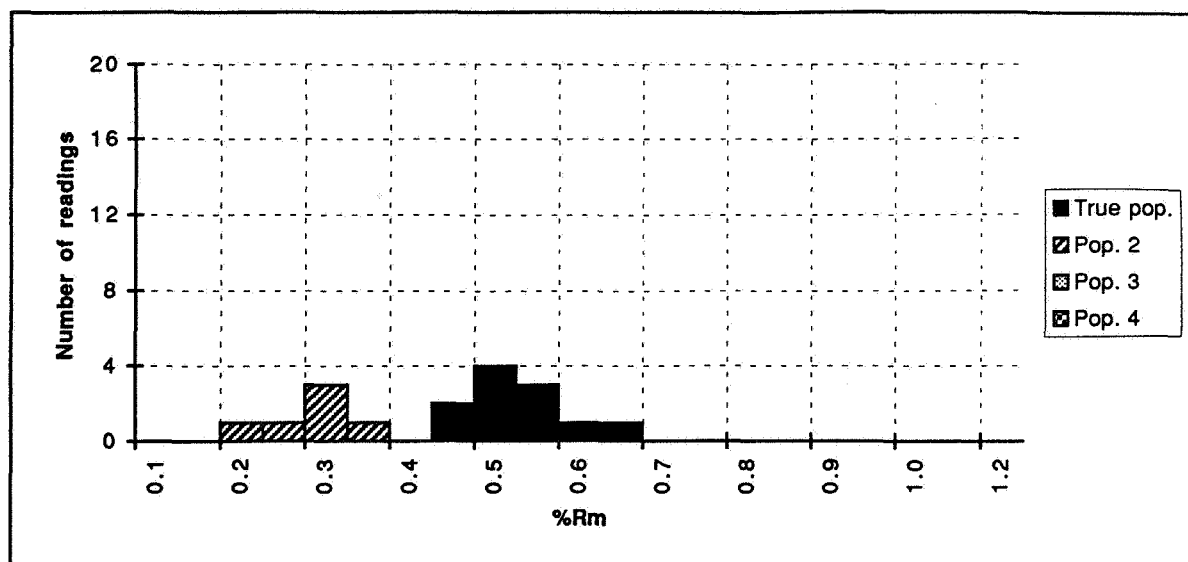


| IFE no.          | 980609    | %Rm readings            | True pop. | Pop. 2    | Pop. 3    | Pop. 4 |
|------------------|-----------|-------------------------|-----------|-----------|-----------|--------|
| Well             | 34/7-26S  | Mean±std.dev.           | 0.50±0.05 | 0.26±0.02 | 0.69±0.06 |        |
| Depth, mRKB      | 4563      | Individual measurements | 0.41      | 0.24      | 0.62      |        |
| Sample type      | CORE      |                         | 0.47      | 0.27      | 0.64      |        |
| Lithology        | sst/clyst | 3                       | 0.48      | 0.27      | 0.68      |        |
| Preparation      | bulk      | 4                       | 0.53      |           | 0.68      |        |
| Date of analysis | 22.06.98  | 5                       | 0.54      |           | 0.68      |        |
|                  |           | 6                       | 0.55      |           | 0.70      |        |
|                  |           | 7                       |           |           | 0.70      |        |
|                  |           | 8                       |           |           | 0.72      |        |
|                  |           | 9                       |           |           | 0.84      |        |
|                  |           | 10                      |           |           |           |        |
|                  |           | 11                      |           |           |           |        |
|                  |           | 12                      |           |           |           |        |
|                  |           | 13                      |           |           |           |        |
|                  |           | 14                      |           |           |           |        |
|                  |           | 15                      |           |           |           |        |
|                  |           | 16                      |           |           |           |        |
|                  |           | 17                      |           |           |           |        |
|                  |           | 18                      |           |           |           |        |
|                  |           | 19                      |           |           |           |        |
|                  |           | 20                      |           |           |           |        |
|                  |           | 21                      |           |           |           |        |
|                  |           | 22                      |           |           |           |        |
|                  |           | 23                      |           |           |           |        |
|                  |           | 24                      |           |           |           |        |
|                  |           | 25                      |           |           |           |        |
|                  |           | 26                      |           |           |           |        |
|                  |           | 27                      |           |           |           |        |
|                  |           | 28                      |           |           |           |        |
|                  |           | 29                      |           |           |           |        |
|                  |           | 30                      |           |           |           |        |

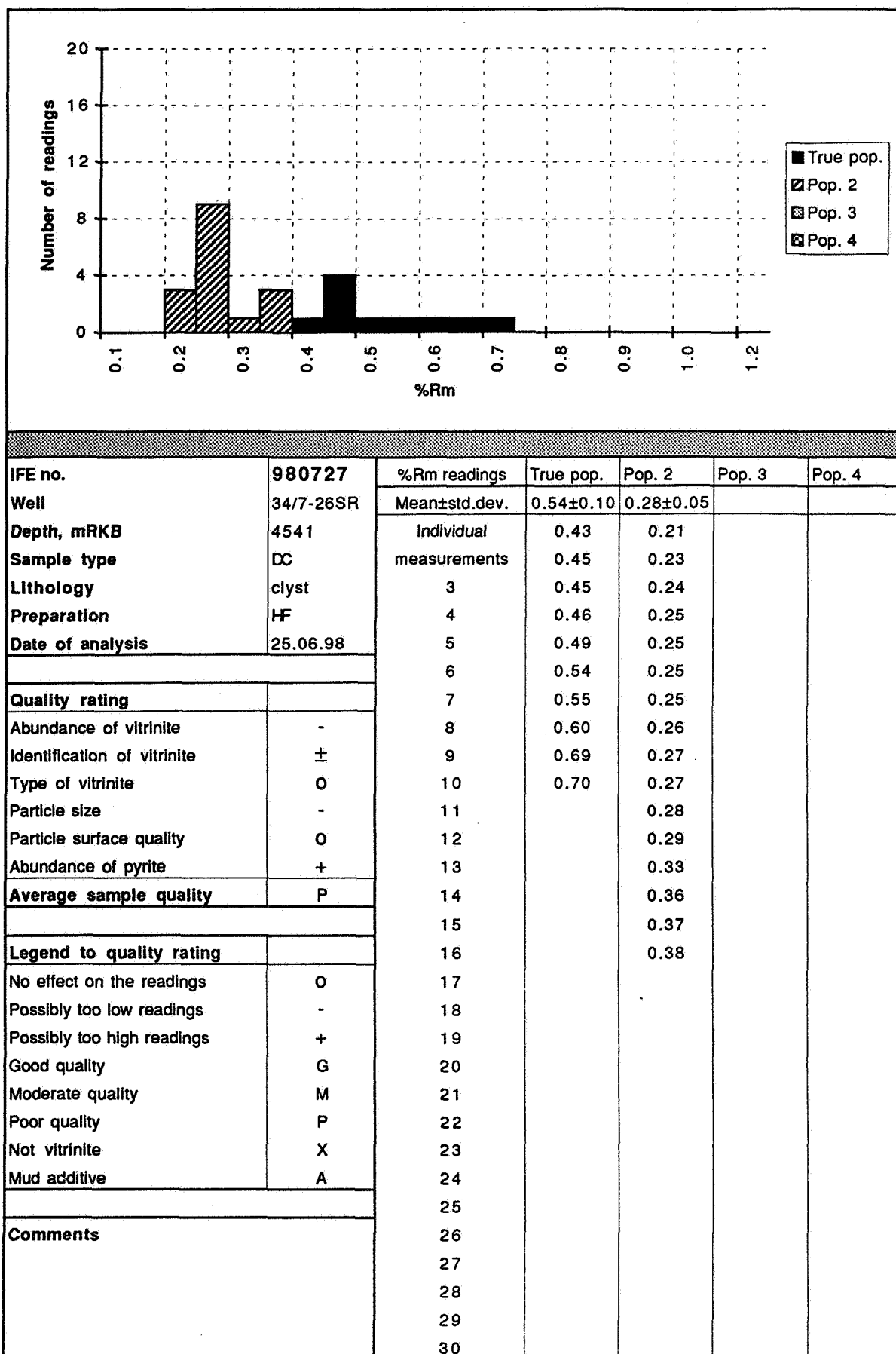
| Quality rating              |   |
|-----------------------------|---|
| Abundance of vitrinite      | - |
| Identification of vitrinite | O |
| Type of vitrinite           | O |
| Particle size               | - |
| Particle surface quality    | O |
| Abundance of pyrite         | + |
| Average sample quality      | P |
| Legend to quality rating    |   |
| No effect on the readings   | O |
| Possibly too low readings   | - |
| Possibly too high readings  | + |
| Good quality                | G |
| Moderate quality            | M |
| Poor quality                | P |
| Not vitrinite               | X |
| Mud additive                | A |
| Comments                    |   |

# Vitrinite reflectance sample data sheet

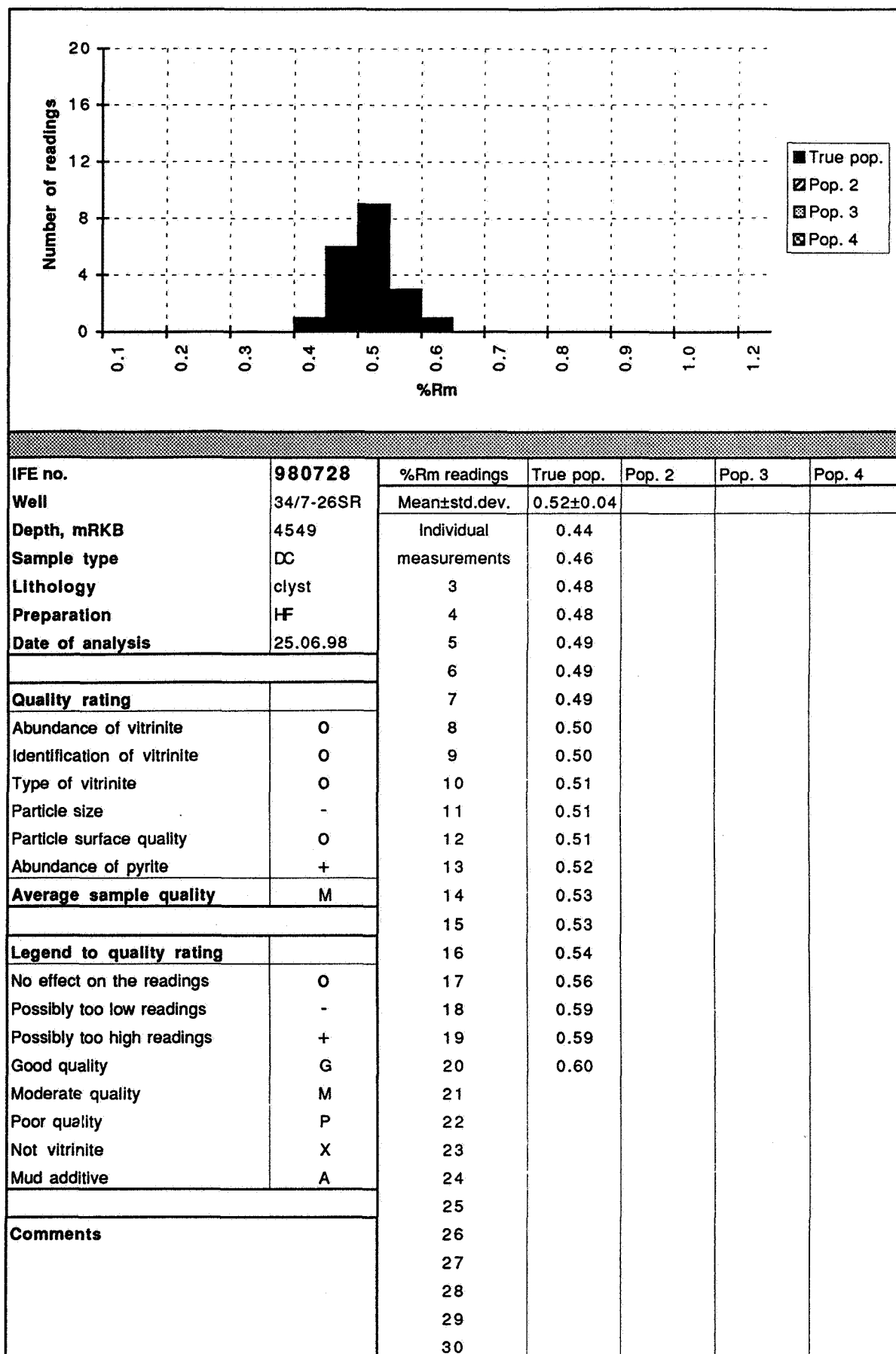


| IFE no.                     |  | 980610    | %Rm readings  | True pop. | Pop. 2    | Pop. 3 | Pop. 4 |
|-----------------------------|--|-----------|---------------|-----------|-----------|--------|--------|
| Well                        |  | 34/7-26S  | Mean±std.dev. | 0.55±0.06 | 0.31±0.04 |        |        |
| Depth, mRKB                 |  | 4587      | Individual    | 0.46      | 0.25      |        |        |
| Sample type                 |  | COFE      | measurements  | 0.47      | 0.29      |        |        |
| Lithology                   |  | clyst/sst | 3             | 0.52      | 0.31      |        |        |
| Preparation                 |  | bulk      | 4             | 0.52      | 0.31      |        |        |
| Date of analysis            |  | 22.06.98  | 5             | 0.54      | 0.33      |        |        |
|                             |  |           | 6             | 0.54      | 0.38      |        |        |
| Quality rating              |  |           | 7             | 0.59      |           |        |        |
| Abundance of vitrinite      |  | -         | 8             | 0.59      |           |        |        |
| Identification of vitrinite |  | O         | 9             | 0.59      |           |        |        |
| Type of vitrinite           |  | O         | 10            | 0.61      |           |        |        |
| Particle size               |  | -         | 11            | 0.66      |           |        |        |
| Particle surface quality    |  | O         | 12            |           |           |        |        |
| Abundance of pyrite         |  | +         | 13            |           |           |        |        |
| Average sample quality      |  | P         | 14            |           |           |        |        |
|                             |  |           | 15            |           |           |        |        |
| Legend to quality rating    |  |           | 16            |           |           |        |        |
| No effect on the readings   |  | O         | 17            |           |           |        |        |
| Possibly too low readings   |  | -         | 18            |           |           |        |        |
| Possibly too high readings  |  | +         | 19            |           |           |        |        |
| Good quality                |  | G         | 20            |           |           |        |        |
| Moderate quality            |  | M         | 21            |           |           |        |        |
| Poor quality                |  | P         | 22            |           |           |        |        |
| Not vitrinite               |  | X         | 23            |           |           |        |        |
| Mud additive                |  | A         | 24            |           |           |        |        |
|                             |  |           | 25            |           |           |        |        |
| Comments                    |  |           | 26            |           |           |        |        |
|                             |  |           | 27            |           |           |        |        |
|                             |  |           | 28            |           |           |        |        |
|                             |  |           | 29            |           |           |        |        |
|                             |  |           | 30            |           |           |        |        |

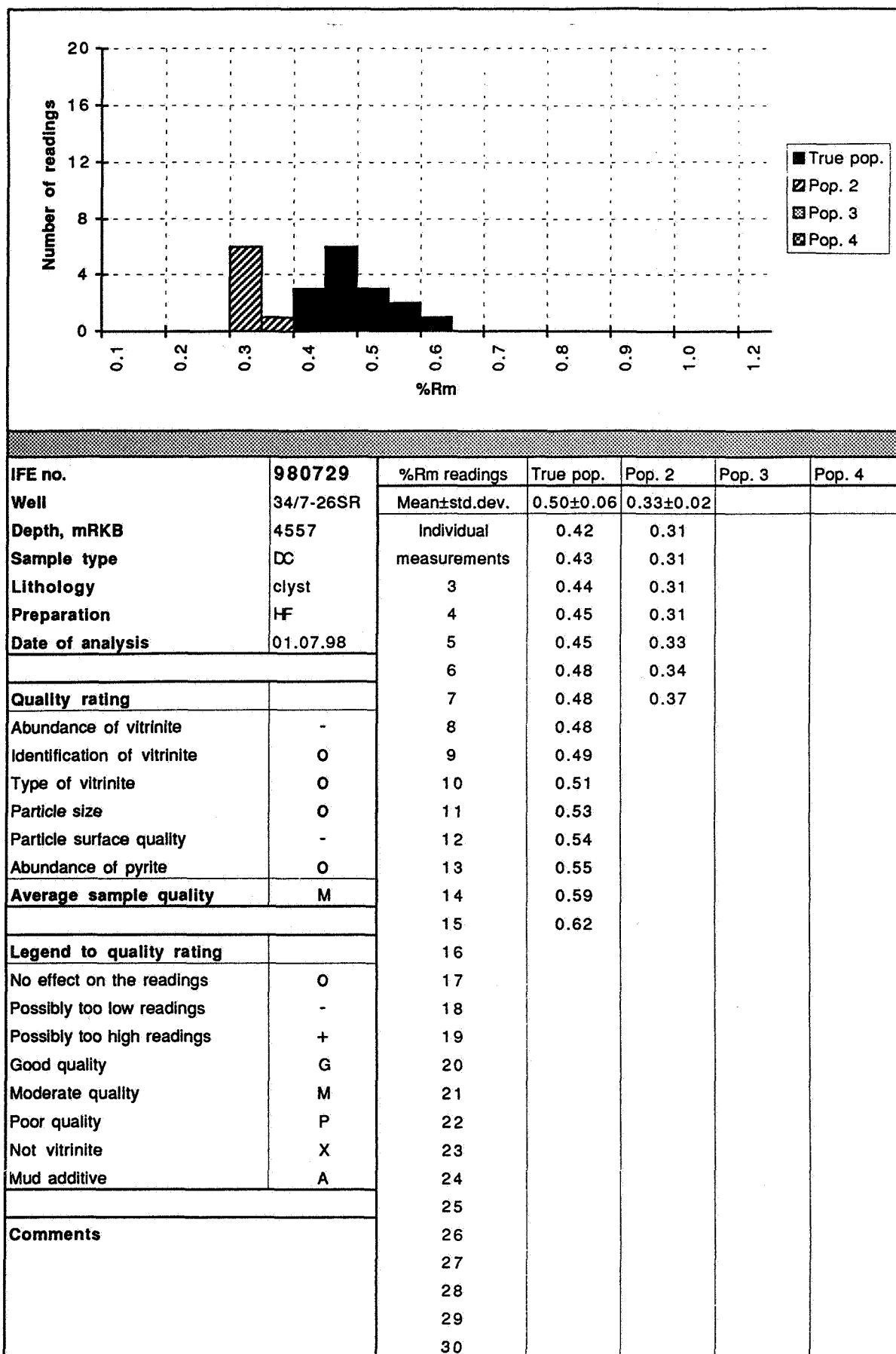
# Vitrinite reflectance sample data sheet



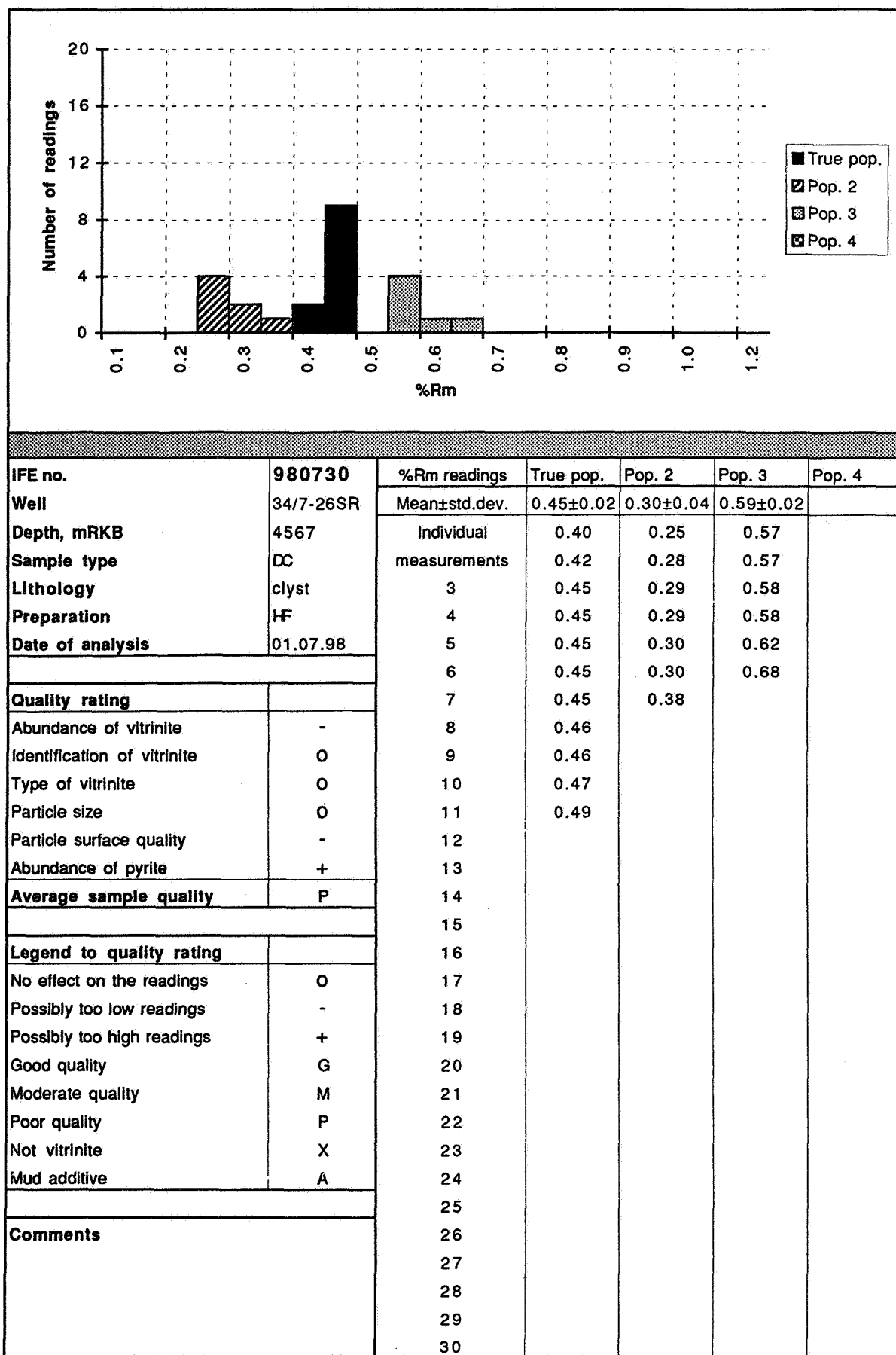
# Vitrinite reflectance sample data sheet



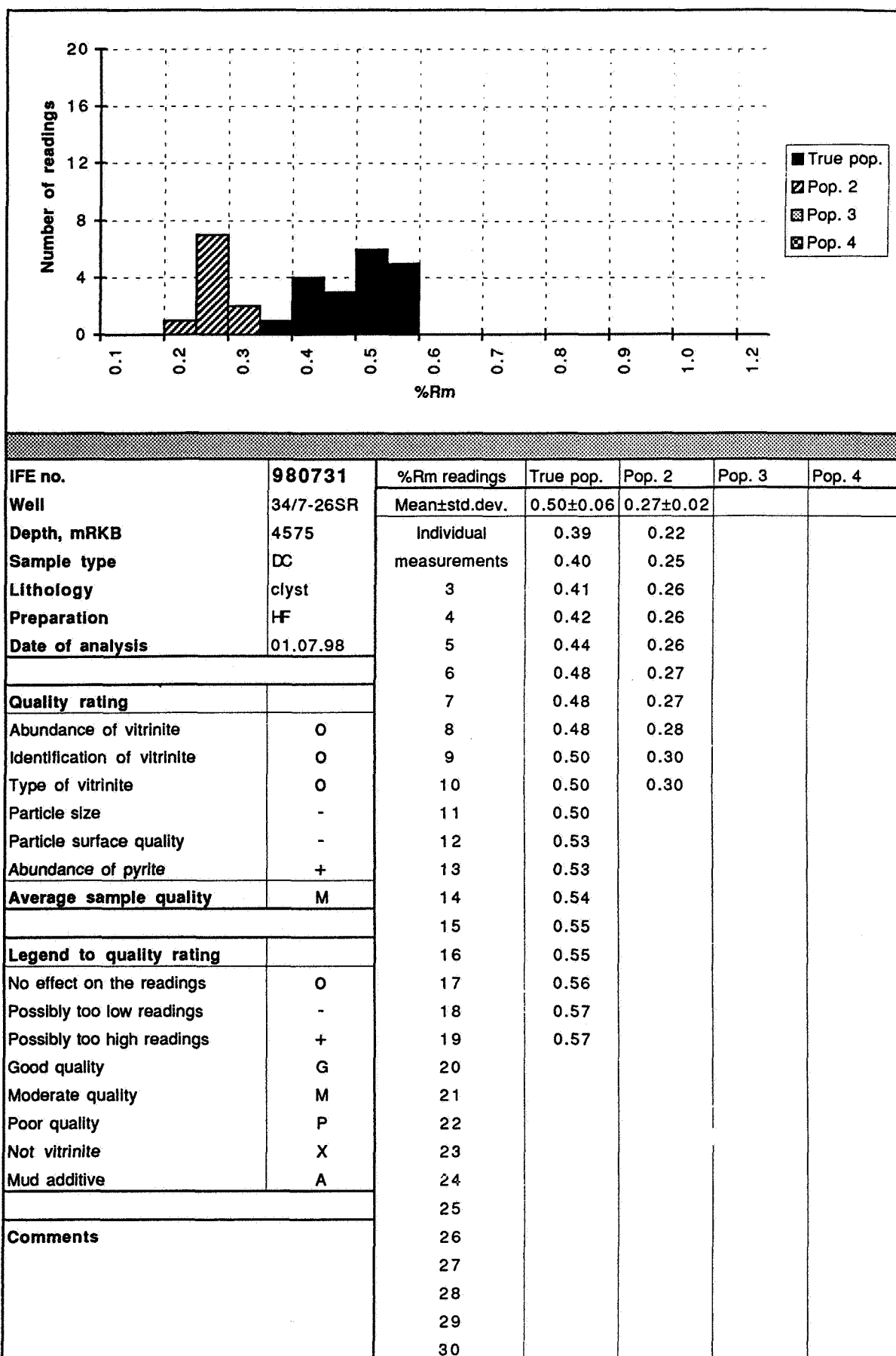
# Vitrinite reflectance sample data sheet



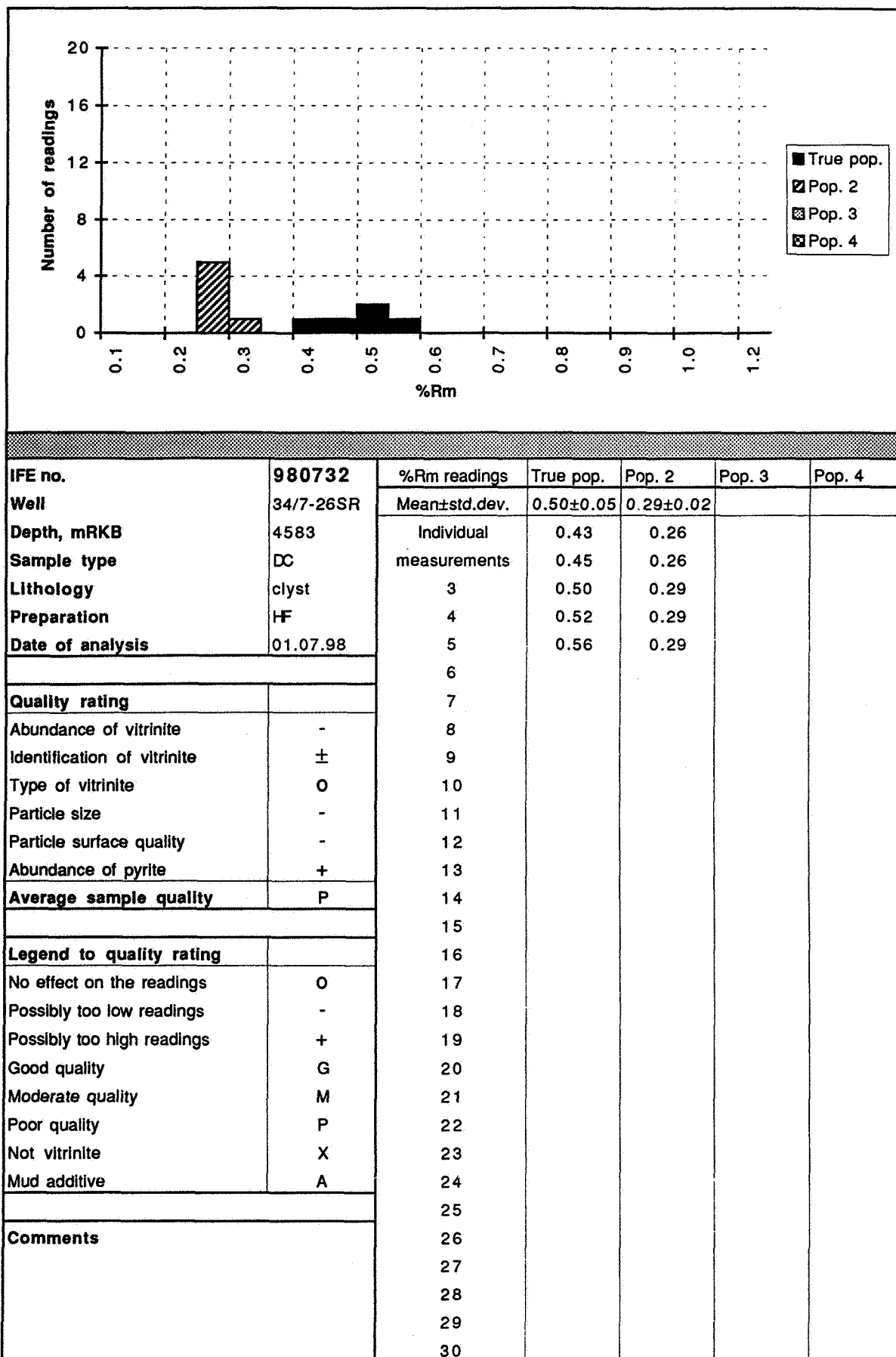
# Vitrinite reflectance sample data sheet



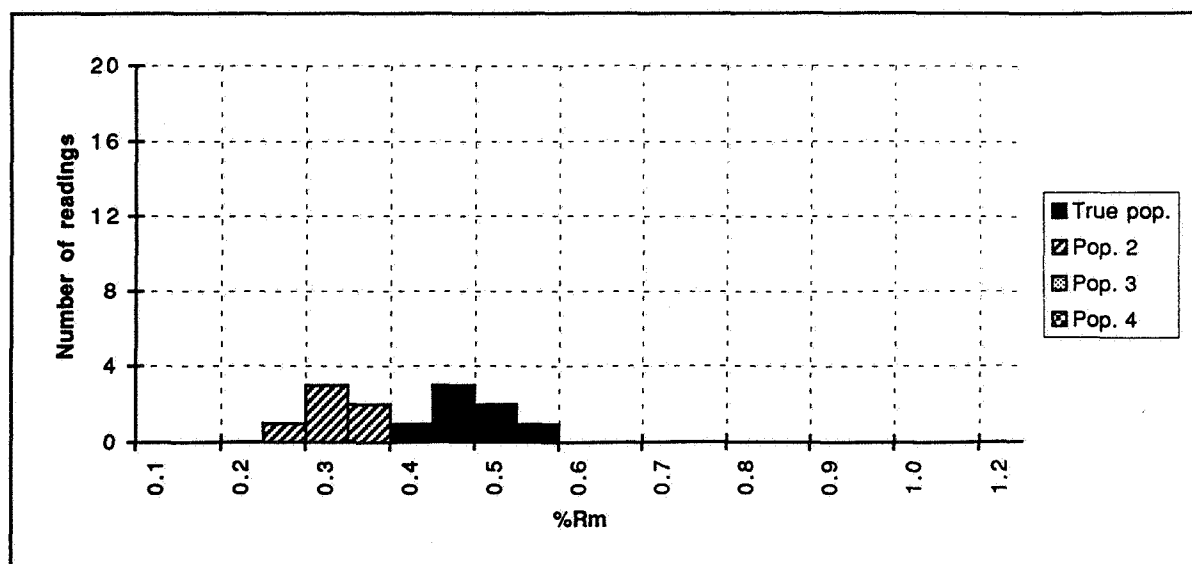
# Vitrinite reflectance sample data sheet



# Vitrinite reflectance sample data sheet



# Vitrinite reflectance sample data sheet



| IFE no.                     | 980733    | %Rm readings  | True pop. | Pop. 2    | Pop. 3 | Pop. 4 |
|-----------------------------|-----------|---------------|-----------|-----------|--------|--------|
| Well                        | 34/7-26SR | Mean±std.dev. | 0.50±0.06 | 0.33±0.05 |        |        |
| Depth, mRKB                 | 4596      | Individual    | 0.42      | 0.25      |        |        |
| Sample type                 | DC        | measurements  | 0.45      | 0.31      |        |        |
| Lithology                   | clyst     | 3             | 0.47      | 0.31      |        |        |
| Preparation                 | HF        | 4             | 0.47      | 0.34      |        |        |
| Date of analysis            | 01.07.98  | 5             | 0.53      | 0.38      |        |        |
|                             |           | 6             | 0.54      | 0.38      |        |        |
|                             |           | 7             | 0.57      |           |        |        |
| Quality rating              |           | 8             |           |           |        |        |
| Abundance of vitrinite      | -         | 9             |           |           |        |        |
| Identification of vitrinite | ±         | 10            |           |           |        |        |
| Type of vitrinite           | O         | 11            |           |           |        |        |
| Particle size               | -         | 12            |           |           |        |        |
| Particle surface quality    | -         | 13            |           |           |        |        |
| Abundance of pyrite         | +         | 14            |           |           |        |        |
| Average sample quality      | P         | 15            |           |           |        |        |
|                             |           | 16            |           |           |        |        |
| Legend to quality rating    |           | 17            |           |           |        |        |
| No effect on the readings   | O         | 18            |           |           |        |        |
| Possibly too low readings   | -         | 19            |           |           |        |        |
| Possibly too high readings  | +         | 20            |           |           |        |        |
| Good quality                | G         | 21            |           |           |        |        |
| Moderate quality            | M         | 22            |           |           |        |        |
| Poor quality                | P         | 23            |           |           |        |        |
| Not vitrinite               | X         | 24            |           |           |        |        |
| Mud additive                | A         | 25            |           |           |        |        |
|                             |           | 26            |           |           |        |        |
| Comments                    |           | 27            |           |           |        |        |
|                             |           | 28            |           |           |        |        |
|                             |           | 29            |           |           |        |        |
|                             |           | 30            |           |           |        |        |

# Vitrinite reflectance sample data sheet

☐ True pop.  
☐ Pop. 2  
☐ Pop. 3  
☐ Pop. 4

|                             |           | %Rm readings  | True pop. | Pop. 2 | Pop. 3 | Pop. 4 |
|-----------------------------|-----------|---------------|-----------|--------|--------|--------|
| IFE no.                     | 980734    | Mean±std.dev. |           |        |        |        |
| Well                        | 34/7-26SR | Individual    |           |        |        |        |
| Depth, mRKB                 | 4598      | measurements  |           |        |        |        |
| Sample type                 | DC        |               |           |        |        |        |
| Lithology                   | clyst     | 3             |           |        |        |        |
| Preparation                 | HF        | 4             |           |        |        |        |
| Date of analysis            | 01.07.98  | 5             |           |        |        |        |
|                             |           | 6             |           |        |        |        |
| Quality rating              |           | 7             |           |        |        |        |
| Abundance of vitrinite      |           | 8             |           |        |        |        |
| Identification of vitrinite |           | 9             |           |        |        |        |
| Type of vitrinite           |           | 10            |           |        |        |        |
| Particle size               |           | 11            |           |        |        |        |
| Particle surface quality    |           | 12            |           |        |        |        |
| Abundance of pyrite         |           | 13            |           |        |        |        |
| Average sample quality      | X         | 14            |           |        |        |        |
|                             |           | 15            |           |        |        |        |
| Legend to quality rating    |           | 16            |           |        |        |        |
| No effect on the readings   | O         | 17            |           |        |        |        |
| Possibly too low readings   | -         | 18            |           |        |        |        |
| Possibly too high readings  | +         | 19            |           |        |        |        |
| Good quality                | G         | 20            |           |        |        |        |
| Moderate quality            | M         | 21            |           |        |        |        |
| Poor quality                | P         | 22            |           |        |        |        |
| Not vitrinite               | X         | 23            |           |        |        |        |
| Mud additive                | A         | 24            |           |        |        |        |
|                             |           | 25            |           |        |        |        |
| Comments                    |           | 26            |           |        |        |        |
| Barren of vitrinite         |           | 27            |           |        |        |        |
|                             |           | 28            |           |        |        |        |
|                             |           | 29            |           |        |        |        |
|                             |           | 30            |           |        |        |        |