

B1.7 Mud Summary

| | |
|---------------------------------------|--|
| 9 7/8" pilot hole | Sea water/Bentonite Hi-Vis pills as required |
| 36" conductor hole | Sea water/Bentonite Hi-Vis pills as required 1.20 SG Hi-Vis mud left in hole for casing run |
| 26" conductor hole | Sea water/Bentonite Hi-Vis pills as required 1.20 SG Hi-Vis mud left in hole for casing run |
| 17 1/2" intermediate hole | Glydril Waterbased Mud (1.50 - 1.75 SG) |
| 20" intermediate hole (T2) | Glydril Waterbased Mud (1.48- 1.58 SG) |
| 17 1/2" intermediate hole (T2) | Glydril Waterbased Mud (1.58- 1.82 SG) |
| 12.1/4" intermediate hole | VersaPro Oilbased Mud (1.78 - 1.87 SG) |
| 8.1/2" intermediate hole | VersaPro Oilbased Mud (1.91 - 1.97 SG) |

The well was displaced to WBM before the 13 3/8" csg was cut and pulled.

See the Mud summary Report in section B.8.7 for more information.

Mud Summary Report

Legal Well Name: 6406/5-1 Tott East
 Common Well Name: Tott East
 Event Name: ORIG DRILLING
 Contractor Name: TRANSOCEAN
 Rig Name: Transocean Winner

Start: 12/15/2001
 Rig Release:
 Rig Number: LFTB

Spud Date: 12/23/2001
 End:

| Day | TMD (m) | Hole Sz. (in) | Mud Type | MW (sg) | Visc. (s/qt) | PV (cp) | YP (lb/100ft ²) | Gels 10s/10m/30m (lb/100ft ²) | API WL (cc/30min) | HTHP WL (cc/30min) | HTHP T (°C) | pH | Cl- (mg/L) | Sand (%) | TS (%) | LGS (kg/m ³) | MBT (sg) | Oil (%) | Tot. Hard. (mg/L) | Tot. Vol. (m ³) |
|-----|------------|------------------|----------------|------------|-----------------|------------|--------------------------------|--|----------------------|-----------------------|----------------|------|---------------|-------------|-----------|-----------------------------|-------------|------------|----------------------|--------------------------------|
| 9 | 455.0 | 9.875 | Spud Mud | 1.05 | 100 | | | | | | | 9.4 | | | | | | | | 243.0 |
| 10 | 1,092.0 | 9.875 | Spud Mud | 1.05 | 100 | | | | | | | 9.3 | | | | | | | | 223.0 |
| 11 | 327.0 | 36.000 | Spud Mud | 1.05 | 100 | | | | | | | 9.0 | | | | | | | | 251.0 |
| 12 | 385.0 | 36.000 | Spud Mud | 1.05 | 100 | | | | | | | 9.0 | | | | | | | | 172.0 |
| 13 | 385.0 | 36.000 | Spud Mud | 1.05 | 100 | | | | | | | 9.2 | | | | | | | | 253.0 |
| 14 | 1,287.0 | 26.000 | Spud Mud | 1.05 | 129 | | | | | | | 9.2 | | | | | | | | 224.0 |
| 15 | 1,434.0 | 26.000 | Spud Mud | 1.20 | 61 | 20 | 12 | 5 / 10 / 0 | | | | 8.5 | | | | | | | | 61.0 |
| 16 | 1,434.0 | 26.000 | KCl/PAC/Glycol | 1.50 | 65 | 20 | 14 | 8 / 13 / 0 | 2.8 | | | 8.5 | 82,000 | 0.10 | 20.0 | | 21.00 | | 1,000 | 282.0 |
| 17 | 1,434.0 | 26.000 | KCl/PAC/Glycol | 1.50 | 65 | 20 | 14 | 8 / 13 / 0 | 2.8 | | | 8.5 | 82,000 | 0.10 | 20.0 | | 21.00 | | 1,000 | 282.0 |
| 18 | 1,434.0 | 26.000 | KCl/PAC/Glycol | 1.50 | 61 | 22 | 11 | 6 / 11 / 0 | 3.0 | | | 8.0 | 80,000 | 0.10 | 20.0 | 51.0 | 21.00 | | 1,000 | 444.0 |
| 19 | 1,434.0 | 26.000 | KCl/PAC/Glycol | 1.50 | 64 | 23 | 10 | 6 / 10 / 0 | 3.2 | | | 8.0 | 80,000 | 0.10 | 20.0 | 51.0 | 14.00 | | 800 | 443.0 |
| 20 | 1,929.0 | 17.500 | KCl/PAC/Glycol | 1.55 | 75 | 21 | 17 | 6 / 10 / 0 | 3.6 | | | 8.2 | 75,000 | 0.25 | | 173.0 | 18.00 | | 840 | 565.0 |
| 21 | 2,349.0 | 17.500 | KCl/PAC/Glycol | 1.65 | 85 | 26 | 15 | 6 / 12 / 0 | 3.5 | | | 8.4 | 75,000 | 24.00 | | 125.4 | 20.00 | | 900 | 616.0 |
| 22 | 2,600.0 | 17.500 | KCl/PAC/Glycol | 1.65 | 88 | 28 | 32 | 12 / 22 / 0 | 3.8 | | | 8.3 | 76,000 | 0.30 | 25.0 | 159.0 | 35.00 | | 1,040 | 642.0 |
| 23 | 2,600.0 | 17.500 | KCl/PAC/Glycol | 1.65 | 96 | 34 | 35 | 8 / 18 / 0 | 2.2 | | | 8.0 | 77,000 | 0.30 | 24.0 | 125.0 | 21.00 | | 1,024 | 630.0 |
| 39 | 1,616.0 | 20.000 | KCl/PAC/Glycol | 1.48 | 65 | 20 | 23 | 8 / 26 / 0 | 5.5 | | | 10.5 | 77,000 | | 20.0 | 99.0 | 7.00 | | 600 | 447.0 |
| 40 | 1,902.0 | 20.000 | KCl/PAC/Glycol | 1.48 | 65 | 20 | 23 | 8 / 26 / 0 | 5.5 | | | 10.5 | 77,000 | | 20.0 | 99.0 | 7.00 | | 600 | 447.0 |
| 41 | 2,178.0 | 20.000 | KCl/PAC/Glycol | 1.48 | 89 | 31 | 38 | 9 / 24 / 0 | 3.6 | | | 9.0 | 82,000 | 0.25 | 20.0 | 116.0 | 26.00 | | 340 | 588.0 |
| 42 | 2,360.0 | 20.000 | KCl/PAC/Glycol | 1.49 | 82 | 30 | 36 | 10 / 24 / 0 | 3.8 | | | 8.9 | 78,000 | 0.25 | 20.0 | 111.0 | 28.00 | | 520 | 535.0 |
| 43 | 2,360.0 | 20.000 | KCl/PAC/Glycol | 1.50 | 86 | 30 | 34 | 10 / 22 / 0 | 3.6 | | | 8.9 | 78,000 | 0.25 | 20.0 | 94.9 | 28.00 | | 540 | 567.0 |
| 44 | 2,360.0 | 20.000 | KCl/PAC/Glycol | 1.50 | 85 | 24 | 30 | 10 / 18 / 0 | 3.4 | | | 8.7 | 76,000 | 0.25 | 21.0 | 149.7 | 30.00 | | 600 | 611.0 |
| 45 | 2,364.0 | 20.000 | KCl/PAC/Glycol | 1.56 | 92 | 35 | 38 | 14 / 28 / 0 | 3.6 | | | 9.0 | 78,000 | 0.25 | 23.0 | 162.7 | 30.00 | | 560 | 568.0 |
| 46 | 2,364.0 | 20.000 | KCl/PAC/Glycol | 1.58 | 100 | 34 | 22 | 14 / 34 / 0 | 3.2 | | | 8.4 | 81,000 | 0.10 | 23.5 | 153.7 | 32.00 | | 680 | 564.0 |
| 47 | 2,364.0 | 20.000 | KCl/PAC/Glycol | 1.58 | 103 | 33 | 22 | 16 / 34 / 0 | 3.4 | | | 8.4 | 79,000 | 0.10 | 23.5 | 155.0 | 34.00 | | 680 | 670.0 |
| 48 | 2,364.0 | 20.000 | KCl/PAC/Glycol | 1.58 | 92 | 31 | 22 | 14 / 32 / 0 | 3.6 | | | 8.3 | 83,000 | 0.10 | 23.5 | 151.8 | 32.00 | | 720 | 672.0 |
| 49 | 2,364.0 | 20.000 | KCl/PAC/Glycol | 1.58 | 100 | 31 | 44 | 14 / 32 / 0 | 3.6 | | | 8.3 | 84,000 | 0.10 | 23.5 | 151.1 | 30.00 | | 720 | 634.0 |
| 50 | 2,364.0 | 20.000 | KCl/PAC/Glycol | 1.58 | 105 | 31 | 42 | 14 / 32 / 0 | 3.6 | | | 8.8 | 81,000 | 0.10 | 23.5 | 153.7 | 30.00 | | 800 | 627.0 |
| 51 | 2,364.0 | 20.000 | KCl/PAC/Glycol | 1.58 | 115 | 35 | 42 | 18 / 40 / 0 | 3.8 | | | 9.4 | 80,000 | 0.10 | 23.5 | 154.4 | 0.03 | | 800 | 622.0 |
| 52 | 2,364.0 | 20.000 | KCl/PAC/Glycol | 1.58 | 110 | 35 | 50 | 24 / 60 / 0 | 5.0 | | | 10.0 | 78,000 | 0.10 | 24.0 | 182.4 | 0.03 | | 620 | 631.0 |
| 53 | 2,364.0 | 20.000 | KCl/PAC/Glycol | 1.75 | 94 | 32 | 40 | 24 / 56 / 0 | 7.0 | | | 9.5 | 78,000 | 0.25 | 29.0 | 173.0 | 0.03 | | 800 | 644.0 |
| 54 | 2,448.0 | 17.500 | KCl/PAC/Glycol | 1.78 | 89 | 30 | 38 | 18 / 54 / 0 | 6.0 | | | 9.0 | 81,000 | 0.25 | 29.0 | 123.0 | 0.03 | | 600 | 657.0 |

Mud Summary Report

| | | | |
|-------------------|--------------------|--------------|------------|
| Legal Well Name: | 6406/5-1 Tott East | Spud Date: | 12/23/2001 |
| Common Well Name: | Tott East | Start: | 12/15/2001 |
| Event Name: | ORIG DRILLING | Rig Release: | |
| Contractor Name: | TRANSOCEAN | Rig Number: | LFTB |
| Rig Name: | Transocean Winner | | |

| Day | TMD (m) | Hole Sz. (in) | Mud Type | MW (sg) | Visc. (s/qt) | PV (cp) | YP (lb/100ft²) | Gels 10s/10m/30m (lb/100ft²) | API WL (cc/30min) | HTHP WL (cc/30min) | HTHP T (°C) | pH | Cl- (mg/L) | Sand (%) | TS (%) | LGS (kg/m3) | MBT (sg) | Oil (%) | Tot. Hard. (mg/L) | Tot. Vol. (m³) |
|-----|------------|------------------|----------------|------------|-----------------|------------|-------------------|---------------------------------|----------------------|-----------------------|----------------|-----|---------------|-------------|-----------|----------------|-------------|------------|----------------------|-------------------|
| 55 | 2,552.0 | 17.500 | KCI/PAC/Glycol | 1.78 | 76 | 35 | 32 | 14 / 42 / 0 | 4.0 | | | 8.5 | 79,000 | 0.25 | 29.5 | 169.0 | 0.03 | | 680 | 679.0 |
| 72 | 2,691.0 | 12.250 | KCI/PAC/Glycol | 1.82 | 91 | 33 | 19 | 16 / 46 / 0 | 4.4 | | | 9.5 | 78,000 | 0.25 | 32.0 | 196.0 | 0.03 | | 860 | 289.0 |
| 73 | 2,691.0 | 12.250 | | | | | | | | | | | | | | | | | | 291.0 |
| 74 | 2,878.0 | 12.250 | Oil (environ) | 1.78 | 100 | 46 | 12 | 8 / 10 / 0 | | 2.4 | 150 | | 75,600 | 0.25 | 29.0 | 74.6 | | 53.0 | | 358.0 |
| 75 | 3,290.0 | 12.250 | Oil (environ) | 1.78 | 88 | 45 | 14 | 10 / 15 / 0 | | 2.2 | 150 | | 93,900 | 0.25 | 29.5 | 97.1 | | 54.0 | | 494.0 |
| 76 | 3,620.0 | 12.250 | Oil (environ) | 1.78 | 93 | 45 | 20 | 11 / 17 / 0 | | 2.2 | 150 | | 96,800 | 0.25 | 30.0 | 105.0 | | 54.5 | | 520.0 |
| 77 | 3,915.0 | 12.250 | Oil (environ) | 1.87 | 140 | 72 | 25 | 15 / 26 / 0 | | 1.9 | 150 | | 142,00 | 0.25 | 33.0 | 133.4 | | 53.0 | | 527.0 |
| 96 | 4,346.0 | 8.500 | Oil (environ) | 1.97 | 125 | 55 | 19 | 9 / 15 / 16 | | 1.6 | 150 | | 12,500 | 0.25 | 35.5 | 131.0 | | 52.0 | | 413.0 |
| 97 | 4,372.0 | 8.500 | Oil (environ) | 1.97 | 139 | 54 | 20 | 9 / 14 / 16 | | 1.6 | 150 | | 12,500 | 0.25 | 35.5 | 131.0 | | 52.0 | | 403.0 |
| 98 | 4,372.0 | 8.500 | Oil (environ) | 1.97 | 139 | 55 | 19 | 9 / 14 / 16 | | 1.6 | 150 | | 12,500 | 0.25 | 36.0 | 131.0 | | 52.0 | | 403.0 |
| 99 | 4,374.0 | 8.500 | Oil (environ) | 1.97 | 110 | 59 | 20 | 9 / 13 / 16 | | 1.4 | 150 | | 92,300 | 0.25 | 36.0 | 134.4 | | 52.0 | | 407.0 |
| 100 | 4,377.0 | 8.500 | Oil (environ) | 1.97 | 192 | 57 | 18 | 9 / 13 / 16 | | 1.4 | 150 | | 86,700 | 0.25 | 36.0 | 131.1 | | 52.0 | | 406.0 |
| 101 | 4,378.0 | 8.500 | Oil (environ) | 1.97 | 187 | 58 | 18 | 9 / 14 / 17 | | 1.4 | 150 | | 86,700 | 0.25 | 36.0 | 131.1 | | 52.0 | | 406.0 |
| 102 | 4,401.0 | 8.500 | Oil (environ) | 1.97 | 152 | 60 | 20 | 10 / 15 / 18 | | 1.6 | 150 | | 87,500 | 0.25 | 36.0 | 131.1 | | 52.0 | | 402.0 |
| 103 | 4,401.0 | 8.500 | Oil (environ) | 1.97 | 220 | 60 | 20 | 10 / 15 / 18 | | 1.6 | 150 | | 91,700 | 0.25 | 36.0 | 131.1 | | 52.0 | | 402.0 |
| 104 | 4,401.0 | 8.500 | Oil (environ) | 1.97 | 110 | 60 | 24 | 10 / 18 / 20 | | 1.6 | 150 | | 100,00 | 0.80 | 36.0 | 131.0 | | 52.0 | | 401.0 |
| 105 | 4,443.0 | 8.500 | Oil (environ) | 1.97 | 122 | 54 | 22 | 11 / 18 / 20 | | 1.6 | 150 | | 100,00 | 0.75 | 36.0 | 131.0 | | 52.0 | | 398.0 |
| 106 | 4,495.0 | 8.500 | Oil (environ) | 1.97 | 112 | 56 | 24 | 11 / 19 / 20 | | 1.8 | 150 | | 104,20 | 0.75 | 37.0 | 170.0 | | 52.0 | | 393.0 |
| 107 | 4,495.0 | 8.500 | Oil (environ) | 1.97 | 154 | 57 | 23 | 10 / 18 / 20 | | 1.8 | 150 | | 101,70 | 0.75 | 37.0 | 161.0 | | 51.0 | | 390.0 |
| 108 | 4,495.0 | 8.500 | Oil (environ) | 1.97 | 180 | 56 | 24 | 10 / 17 / 19 | | 1.8 | 150 | | 94,200 | 0.75 | 37.0 | 161.0 | | 51.0 | | 390.0 |

Geochemical Report on 6406/5-1/T2

Maturity and residual hydrocarbons

Authors: Peter Barry Hall
Ian Ferriday

Geolab Nor A/S
Hornebergveien 5
PO Box 5740
7038 Trondheim
Norway

Date: 29/10/03

Chapter 1

Introduction

1.1 General Comments

After the initial study it was found that the question “is there residual oil in the reservoir sections?” had not been satisfactorily answered due to staining contamination of the core samples by Marcol (used to preserve the cores) as well as the oil-based mud. Therefore ‘seal peel’ core samples, which had not been contaminated by Marcol, were selected for analysis. Furthermore, during discussions about the well it was put forward that there was black material, visible in transmitted light, which could be asphaltenes from a previous episode of accumulation for which the hydrocarbons had been totally removed by biodegradation. In an attempt to solve this sandstone core samples were extracted with hexane (to remove hydrocarbons – OBM etc) and TOC measured. Selected samples were then demineralised and the demineralised ‘kerogen/asphaltenes’ were analysed by pyrolysis-gas chromatography.

In addition, it was decided to determine the maturity of the well section using vitrinite reflectance measurements and spore colour index measurements on cuttings and core samples over the interval from 2400 m to TD.

Various analyses were performed on selected cuttings and seal peel core samples from 2400-4640 m.

1.2 Analytical Program

The analytical program involved the following analyses:

Determination of residual oil in reservoir sections

| | |
|---|-----------------|
| Soxtec solvent extraction | 10 core samples |
| Column separation, incl. deasphalting | 10 core samples |
| GC of Sat HC fraction | 5 core samples |
| GC of Aro HC fraction | 5 core samples |
| GC-MS of Aro HC fraction (with internal standard) | 10 core samples |
| GHM | 21 core samples |

Investigation of the asphaltenes in the reservoir sections

| | |
|---|-----------------|
| Soxtec solvent extraction with hexane | 18 core samples |
| TOC analysis | 18 core samples |
| Kerogen isolation | 9 core samples |
| DCM extraction of isolate | 9 core samples |
| Deasphaltene EOM from DCM extraction | 9 core samples |
| GHM pyrolysis gas chromatography of asphaltenes | 9 core samples |

Determination of the Maturity in 6406/5-1 T2

| | |
|--|------------|
| Vitrinite Reflectance (cuttings and cores) | 24 samples |
| Visual Kerogen Spore colour index (cuttings and cores) | 24 samples |

Table 1 Samples and Sample Descriptions for NOCS well 6406/5-1/T2

| Well Name | Upper depth (m) | Lower depth (m) | Sample type | Description | Sample number |
|------------------|------------------------|------------------------|--------------------|--------------------|----------------------|
| NOCS 6406/5-1/T2 | 2400 | 2400 | cut | bulk fraction | W34/0247-0 |
| NOCS 6406/5-1/T2 | 2800 | 2800 | cut | bulk fraction | W34/0248-0 |
| NOCS 6406/5-1/T2 | 2950 | 2950 | cut | bulk fraction | W34/0249-0 |
| NOCS 6406/5-1/T2 | 3100 | 3100 | cut | bulk fraction | W34/0250-0 |
| NOCS 6406/5-1/T2 | 3275 | 3275 | cut | bulk fraction | W34/0251-0 |
| NOCS 6406/5-1/T2 | 3400 | 3400 | cut | bulk fraction | W34/0252-0 |
| NOCS 6406/5-1/T2 | 3525 | 3525 | cut | bulk fraction | W34/0253-0 |
| NOCS 6406/5-1/T2 | 3650 | 3650 | cut | bulk fraction | W34/0254-0 |
| NOCS 6406/5-1/T2 | 3775 | 3775 | cut | bulk fraction | W34/0255-0 |
| NOCS 6406/5-1/T2 | 3875 | 3875 | cut | bulk fraction | W34/0256-0 |
| NOCS 6406/5-1/T2 | 4000 | 4000 | cut | bulk fraction | W34/0257-0 |
| NOCS 6406/5-1/T2 | 4125 | 4125 | cut | bulk fraction | W34/0258-0 |
| NOCS 6406/5-1/T2 | 4362.8 | 4362.8 | ccp | bulk fraction | W34/0259-0 |
| NOCS 6406/5-1/T2 | 4381.9 | 4381.9 | ccp | bulk fraction | W34/0260-0 |
| NOCS 6406/5-1/T2 | 4399.95 | 4399.95 | ccp | bulk fraction | W34/0261-0 |
| NOCS 6406/5-1/T2 | 4518.9 | 4518.9 | ccp | bulk fraction | W34/0262-0 |
| NOCS 6406/5-1/T2 | 4522 | 4522 | ccp | bulk fraction | W34/0263-0 |
| NOCS 6406/5-1/T2 | 4231.19 | 4231.19 | ccp | bulk fraction | W34/0264-0 |
| NOCS 6406/5-1/T2 | 4235.53 | 4235.53 | ccp | bulk fraction | W34/0265-0 |
| NOCS 6406/5-1/T2 | 4237.76 | 4237.76 | ccp | bulk fraction | W34/0266-0 |
| NOCS 6406/5-1/T2 | 4239.14 | 4239.14 | ccp | bulk fraction | W34/0267-0 |
| NOCS 6406/5-1/T2 | 4243.75 | 4243.75 | ccp | bulk fraction | W34/0268-0 |
| NOCS 6406/5-1/T2 | 4244.8 | 4244.8 | ccp | bulk fraction | W34/0269-0 |
| NOCS 6406/5-1/T2 | 4342.8 | 4342.8 | ccp | bulk fraction | W34/0270-0 |
| NOCS 6406/5-1/T2 | 4344.43 | 4344.43 | ccp | bulk fraction | W34/0271-0 |
| NOCS 6406/5-1/T2 | 4348.06 | 4348.06 | ccp | bulk fraction | W34/0272-0 |
| NOCS 6406/5-1/T2 | 4352.1 | 4352.1 | ccp | bulk fraction | W34/0273-0 |
| NOCS 6406/5-1/T2 | 4359.74 | 4359.74 | ccp | bulk fraction | W34/0274-0 |
| NOCS 6406/5-1/T2 | 4362.15 | 4362.15 | ccp | bulk fraction | W34/0275-0 |
| NOCS 6406/5-1/T2 | 4365.18 | 4365.18 | ccp | bulk fraction | W34/0276-0 |
| NOCS 6406/5-1/T2 | 4380.82 | 4380.82 | ccp | bulk fraction | W34/0277-0 |
| NOCS 6406/5-1/T2 | 4387.3 | 4387.3 | ccp | bulk fraction | W34/0278-0 |
| NOCS 6406/5-1/T2 | 4390.79 | 4390.79 | ccp | bulk fraction | W34/0279-0 |
| NOCS 6406/5-1/T2 | 4398 | 4398 | ccp | bulk fraction | W34/0280-0 |
| NOCS 6406/5-1/T2 | 4495.23 | 4495.23 | ccp | bulk fraction | W34/0281-0 |
| NOCS 6406/5-1/T2 | 4499.17 | 4499.17 | ccp | bulk fraction | W34/0282-0 |
| NOCS 6406/5-1/T2 | 4508.35 | 4508.35 | ccp | bulk fraction | W34/0283-0 |
| NOCS 6406/5-1/T2 | 4512.13 | 4512.13 | ccp | bulk fraction | W34/0284-0 |
| NOCS 6406/5-1/T2 | 4626 | 4626 | cut | bulk fraction | W34/0285-0 |
| NOCS 6406/5-1/T2 | 4674 | 4674 | cut | bulk fraction | W34/0286-0 |

Table 2a: Thermal Maturity data from Vitrinite Reflectance Microscopy for well 6406/5-1 T2

| Upper depth (m) | Lower depth (m) | Sample type | %Ro | No. readings | Std.dev. | Fluor. | Sample number |
|----------------------------|----------------------------|------------------------|------------|-------------------------|-----------------|---------------|--------------------------|
| 2400 | 2400 | cut | 0.32 | 20 | 0.03 | 3 | W34/0247-0 |
| 2628 | 2630 | cut | 0.39 | 20 | 0.05 | 4 | W34/0224-0 |
| 2800 | 2800 | cut | 0.44 | 20 | 0.05 | 4 | W34/0248-0 |
| 2950 | 2950 | cut | 0.45 | 20 | 0.05 | 4 | W34/0249-0 |
| 3100 | 3100 | cut | 0.46 | 20 | 0.04 | 4 | W34/0250-0 |
| 3275 | 3275 | cut | 0.48 | 20 | 0.04 | 4 | W34/0251-0 |
| 3400 | 3400 | cut | 0.48 | 13 | 0.06 | 4 | W34/0252-0 |
| 3525 | 3525 | cut | 0.49 | 2 | 0.04 | 5 | W34/0253-0 |
| 3650 | 3650 | cut | 0.47 | 11 | 0.05 | 5 | W34/0254-0 |
| 3775 | 3775 | cut | 0.46 | 13 | 0.06 | 5 | W34/0255-0 |
| 3875 | 3875 | cut | 0.49 | 3 | 0.03 | 5 | W34/0256-0 |
| 4000 | 4000 | cut | 0.81 | 20 | 0.08 | 5 | W34/0257-0 |
| 4065 | 4068 | cut | 0.63 | 20 | 0.07 | | W34/0230-0 |
| 4122 | 4125 | cut | 0.69 | 10 | 0.09 | | W34/0043-0 |
| 4197 | 4200 | cut | 0.77 | 20 | 0.08 | | W34/0246-0 |
| 4314 | 4317 | cut | 0.71 | 20 | 0.1 | | W34/0091-0 |
| 4362.8 | 4362.8 | ccp | 0.91 | 20 | 0.05 | | W34/0259-0 |
| 4381.9 | 4381.9 | ccp | 0.88 | 20 | 0.06 | | W34/0260-0 |
| 4399.95 | 4399.95 | ccp | 0.95 | 20 | 0.09 | 7 | W34/0261-0 |
| 4479 | 4482 | cut | 0.99 | 6 | 0.11 | | W34/0120-0 |
| 4518.9 | 4518.9 | ccp | 0.86 | 20 | 0.06 | 7 | W34/0262-0 |
| 4522 | 4522 | ccp | 0.85 | 20 | 0.06 | 7 | W34/0263-0 |
| 4626 | 4626 | cut | 0.88 | 2 | 0.06 | | W34/0285-0 |
| 4674 | 4674 | cut | 0.85 | 4 | 0.06 | | W34/0286-0 |

Table 2b Vitrinite Reflectance Microscopy for well 6406/5-1 T2: Maturity Confidence Levels and Comments

| Upper Depth (m) | Lower Depth (m) | Vitrinite Reflectance | | | UV Fluorescence | | | Comments |
|-----------------|-----------------|-----------------------|-----|-------|-----------------|---------|--------|--|
| | | R.o.Ave. | No. | Conf. | Form | Content | Colour | |
| 2400 | 2400 | 0.32 | 20 | C | Spores | Trace | Y | Shale, marly |
| 2630 | 2630 | 0.39 | 20 | D | Spores | Trace | Y-Y/O | Shale |
| | | | | | Resin | Trace | Y-Y/O | |
| 2800 | 2800 | 0.44 | 20 | D | Algae | Low | Y | Silty shale. Tr.glaucinite |
| | | | | | Spores | Trace | Y/O | |
| 2950 | 2950 | 0.45 | 20 | D | Spores | Trace | Y/O | Shale, silty |
| | | | | | Algae | Trace | Y | |
| 3100 | 3100 | 0.46 | 20 | D | Spores | Trace | Y/O | Silty shale. Tr.glaucinite |
| 3275 | 3275 | 0.48 | 20 | D | Spores | Trace | Y/O | Silty shale. Tr.glaucinite |
| | | | | | Algae | Trace | Y-Y/O | |
| 3400 | 3400 | 0.48 | 13 | D | Spores | Trace | Y/O | Shale, soft |
| 3525 | 3525 | 0.50 | 2 | E | Spores | Trace | Y/O+LO | Shale, soft. Iron oxide specks. Phytoclasts degraded |
| 3650 | 3650 | 0.47 | 11 | D | Spores | Trace | LO | Shale |
| 3775 | 3775 | 0.46 | 13 | D | Spores | Trace | LO | Shale, silty. Phytoclasts very degraded |
| 3875 | 3875 | 0.49 | 3 | E | Spores | Trace | Y/O-LO | Shale. Phytoclasts degraded |
| 4000 | 4000 | 0.81 | 20 | D | Spores | Trace | Y/O-LO | Shale, soft. Phytoclasts very degraded |
| 4068 | 4068 | 0.63 | 20 | D | - | - | - | 90%marl, 10%amorphinite rich shale. Iron oxide traces. Phytoclasts virtually restricted to amorphinite rich shale |
| 4125 | 4125 | 0.69 | 10 | E | - | - | - | Shale, tr.rock flour. Iron oxide specks. Phytoclasts as specks |
| 4200 | 4200 | 0.77 | 20 | D | - | - | - | Shale, silty, soft. Phytoclasts small. H/C dissolving in immersion oil |
| 4317 | 4317 | 0.71 | 20 | D | Algae | Trace | Y/O | Shale, soft. Phytoclasts degraded |
| 4362.8 | 4362.8 | 0.91 | 20 | C | - | - | - | 40% coal, 60% pyritised plant debris. Calcite veining |
| 4381.9 | 4381.9 | 0.88 | 20 | C | - | - | - | Shale, silty, sideritic. |
| 4399.95 | 4399.5 | 0.95 | 20 | C | Spores | Trace | DO | Shale, silty |
| 4482 | 4482 | 0.99 | 6 | E | - | - | - | 100% siltstone, tr.rock flour, tr.cement. Sample broken down to minute rock fragments (c.50micron). Phytoclasts almost wholly loose fragments. |
| 4518.9 | 4518.9 | 0.86 | 20 | C | Amorphinite | Low | LO | Silty shale |
| | | | | | Spores | Trace | DO | |
| 4522 | 4522 | 0.85 | 20 | C | Spores | Trace | DO | Shaly siltstone |
| | | | | | Amorphinite | Low | L-MO | |
| 4626 | 4626 | 0.88 | 2 | E | - | - | - | Minute rock fragments (cf.4482) - silty shale? Tr. rock flour. Phytoclasts as loose specks |
| 4674 | 4674 | 0.85 | 4 | E | - | - | - | Minute shale fragments (cf.4482), calcareous, silty. Tr. rock flour |

Table 2c Vitrinite Reflectance Microscopy for well 6406/5-1 T2: Petrography

| Upper Depth (m) | Lower Depth (m) | Amorphinite | Bitumen | Phytoclasts Content | Composition (%) | | | | | | Comments |
|-----------------|-----------------|--------------------------------------|---------|---------------------|-----------------|--------|---------|-------|-------|-----------------|---|
| | | | | | Liptinite | | | | Vitr. | Inert./Reworked | |
| | | | | | Algae | Spores | Cuticle | Resin | | | |
| 2400 | 2400 | Most Low Few Mod- Rich | - | Trace | - | Trace | - | - | 70 | 30 | - |
| 2630 | 2630 | Low | - | Low | - | Trace | - | Trace | Trace | 100 | - |
| 2800 | 2800 | Low-Mod. | - | Moderate | 10 | Trace | - | - | Trace | 90 | - |
| 2950 | 2950 | Low-Mod. | - | Low-Mod. | Trace | Trace | - | - | Trace | 100 | - |
| 3100 | 3100 | Low-Mod. | - | Moderate | - | Trace | - | - | Trace | 100 | - |
| 3275 | 3275 | Low-Mod. | - | Moderate | Trace | Trace | - | - | Trace | 100 | - |
| 3400 | 3400 | Moderate | - | Low-Mod. | - | Trace | - | - | Trace | 100 | - |
| 3525 | 3525 | Mod.-Rich | - | Low-Mod. | - | Trace | - | - | Trace | 100 | Phytoclasts degraded |
| 3650 | 3650 | Moderate | - | Low-Mod. | - | Trace | - | - | Trace | 100 | - |
| 3775 | 3775 | Moderate | - | Low-Mod. | - | Trace | - | - | Trace | 100 | Phytoclasts very degraded |
| 3875 | 3875 | Low+Mod. | - | Low-Mod. | - | Trace | - | - | Trace | 100 | Phytoclasts degraded |
| 4000 | 4000 | Var.-Mod. | - | Low-Mod. | - | Trace | - | - | 10 | 90 | Phytoclasts very degraded |
| 4068 | 4068 | V.Low in marl Rich in Shale | - | Low | - | - | - | - | 10 | 90 | Phytoclasts virtually restricted to amorphinite-rich shale |
| 4125 | 4125 | Mod+Rich | - | Trace | - | - | - | - | Trace | Trace | Phytoclasts as specks |
| 4200 | 4200 | Mod+Rich | - | Very Low | - | - | - | - | 10 | 90 | H/C dissolving in immersion oil Phytoclasts small |
| 4317 | 4317 | Mod-Rich | - | Very Low | Trace | - | - | - | 30 | 70 | Phytoclasts degraded |
| 4362.8 | 4362.8 | - | - | Rich | - | - | - | - | - | - | 40%coal, 60% pyrite replacing plant tissue. Coal wholly vit.+ semifusinite - differentiation difficult due to high maturity |
| 4381.9 | 4381.9 | Moderate | - | Moderate | - | - | - | - | 10 | 90 | - |
| 4399.95 | 4399.95 | Mod-Rich | - | Low-Mod. | - | Trace | - | - | 10 | 90 | - |
| 4482 | 4482 | Moderate | - | Trace | - | - | - | - | Trace | Trace | Phytoclasts as loose specks |
| 4518.9 | 4518.9 | Mod-Rich | - | Moderate | - | Trace | - | - | 20 | 80 | LO fluor. from amorphinite |
| 4522 | 4522 | Mod-Rich | - | Moderate | - | Trace | - | - | 20 | 80 | L-MO fluor. from amorphinite |
| 4626 | 4626 | Mod-Rich? | - | Vrt.Barren | - | - | - | - | Two | - | Phytoclasts as loose specks Sediment present as specks |
| 4674 | 4674 | Moderate? | - | Vrt.Barren | - | - | - | - | Four | Trace | Sediment present as specks |

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lithology | %Ro | Sample number |
|-----------------|-----------------|-------------|---------------|------------|------|---------------|
| 2400 | 2400 | cut | bulk fraction | | 0.28 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.34 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.31 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.38 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.32 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.29 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.37 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.39 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.35 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.32 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.35 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.35 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.3 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.29 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.31 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.27 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.33 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.31 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.29 | W34/0247-0 |
| 2400 | 2400 | cut | bulk fraction | | 0.33 | W34/0247-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.38 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.27 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.43 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.35 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.36 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.36 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.42 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.48 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.34 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.43 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.44 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.35 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.46 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.43 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.36 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.35 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.33 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.42 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.44 | W34/0224-0 |
| 2628 | 2630 | cut | bulk fraction | | 0.44 | W34/0224-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.45 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.38 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.38 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.38 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.46 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.43 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.47 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.52 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.45 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.52 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.45 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.48 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.44 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.54 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.47 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.36 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.48 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.36 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.47 | W34/0248-0 |
| 2800 | 2800 | cut | bulk fraction | | 0.38 | W34/0248-0 |

| | | | | | |
|------|------|-----|---------------|------|------------|
| 3400 | 3400 | cut | bulk fraction | 0.46 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.47 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.44 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.53 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.35 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.47 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.51 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.45 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.54 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.51 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.39 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.56 | W34/0252-0 |
| 3400 | 3400 | cut | bulk fraction | 0.54 | W34/0252-0 |
| 3525 | 3525 | cut | bulk fraction | 0.52 | W34/0253-0 |
| 3525 | 3525 | cut | bulk fraction | 0.47 | W34/0253-0 |
| 3650 | 3650 | cut | bulk fraction | 0.42 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.39 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.52 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.49 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.46 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.43 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.51 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.42 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.47 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.54 | W34/0254-0 |
| 3650 | 3650 | cut | bulk fraction | 0.5 | W34/0254-0 |
| 3775 | 3775 | cut | bulk fraction | 0.43 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.4 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.53 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.57 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.53 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.41 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.4 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.45 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.42 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.46 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.4 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.54 | W34/0255-0 |
| 3775 | 3775 | cut | bulk fraction | 0.45 | W34/0255-0 |
| 3875 | 3875 | cut | bulk fraction | 0.51 | W34/0256-0 |
| 3875 | 3875 | cut | bulk fraction | 0.5 | W34/0256-0 |
| 3875 | 3875 | cut | bulk fraction | 0.45 | W34/0256-0 |
| 4000 | 4000 | cut | bulk fraction | 0.94 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.66 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.83 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.83 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.91 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.65 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.75 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.82 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.92 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.87 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.8 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.83 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.77 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.72 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.77 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.75 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.88 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.9 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.75 | W34/0257-0 |
| 4000 | 4000 | cut | bulk fraction | 0.77 | W34/0257-0 |

| | | | | | |
|------|------|-----|---------------|------|------------|
| 4065 | 4068 | cut | bulk fraction | 0.59 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.59 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.53 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.63 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.58 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.56 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.6 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.65 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.72 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.61 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.53 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.68 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.63 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.6 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.59 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.62 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.69 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.68 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.78 | W34/0230-0 |
| 4065 | 4068 | cut | bulk fraction | 0.79 | W34/0230-0 |
| 4122 | 4125 | cut | bulk fraction | 0.68 | W34/0043-0 |
| 4122 | 4125 | cut | bulk fraction | 0.54 | W34/0043-0 |
| 4122 | 4125 | cut | bulk fraction | 0.67 | W34/0043-0 |
| 4122 | 4125 | cut | bulk fraction | 0.81 | W34/0043-0 |
| 4122 | 4125 | cut | bulk fraction | 0.73 | W34/0043-0 |
| 4122 | 4125 | cut | bulk fraction | 0.81 | W34/0043-0 |
| 4122 | 4125 | cut | bulk fraction | 0.58 | W34/0043-0 |
| 4122 | 4125 | cut | bulk fraction | 0.71 | W34/0043-0 |
| 4122 | 4125 | cut | bulk fraction | 0.67 | W34/0043-0 |
| 4122 | 4125 | cut | bulk fraction | 0.69 | W34/0043-0 |
| 4197 | 4200 | cut | bulk fraction | 0.87 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.83 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.81 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.74 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.76 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.8 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.78 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.71 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.7 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.76 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.71 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.73 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.66 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.83 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.61 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.89 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.8 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.69 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.89 | W34/0246-0 |
| 4197 | 4200 | cut | bulk fraction | 0.87 | W34/0246-0 |

| | | | | | |
|---------|---------|-----|---------------|------|------------|
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.92 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.91 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.96 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.9 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 1 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 1.05 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.87 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.83 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.87 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.94 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.95 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 1.04 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.85 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.9 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 1.06 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.97 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 1.04 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.87 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 0.96 | W34/0261-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | 1.18 | W34/0261-0 |
| 4479 | 4482 | cut | bulk fraction | 1.01 | W34/0120-0 |
| 4479 | 4482 | cut | bulk fraction | 1.03 | W34/0120-0 |
| 4479 | 4482 | cut | bulk fraction | 0.93 | W34/0120-0 |
| 4479 | 4482 | cut | bulk fraction | 0.99 | W34/0120-0 |
| 4479 | 4482 | cut | bulk fraction | 1.16 | W34/0120-0 |
| 4479 | 4482 | cut | bulk fraction | 0.84 | W34/0120-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.84 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.81 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.85 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.88 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.85 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.89 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.96 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.76 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.83 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.76 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.99 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.91 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.93 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.86 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.87 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.81 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.77 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.82 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.82 | W34/0262-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | 0.94 | W34/0262-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.75 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.88 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.79 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.79 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.79 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.82 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.9 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.84 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.94 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.85 | W34/0263-0 |

| | | | | | |
|------|------|-----|---------------|------|------------|
| 4522 | 4522 | ccp | bulk fraction | 0.88 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.79 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.76 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.88 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.9 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.86 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.94 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.83 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.94 | W34/0263-0 |
| 4522 | 4522 | ccp | bulk fraction | 0.86 | W34/0263-0 |
| 4626 | 4626 | cut | bulk fraction | 0.84 | W34/0285-0 |
| 4626 | 4626 | cut | bulk fraction | 0.92 | W34/0285-0 |
| 4674 | 4674 | cut | bulk fraction | 0.82 | W34/0286-0 |
| 4674 | 4674 | cut | bulk fraction | 0.82 | W34/0286-0 |
| 4674 | 4674 | cut | bulk fraction | 0.83 | W34/0286-0 |
| 4674 | 4674 | cut | bulk fraction | 0.94 | W34/0286-0 |

Table 3 Visual kerogen data for well 6406/5-1 T2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Litholog y | AM % | AP % | HE % | WO % | CO % | SCI | Sample number |
|--------------------|--------------------|----------------|---------------|----------------|------|------|------|------|------|-------------|------------------|
| 2400 | 2400 | cut | bulk fraction | | 10 | 15 | 75 | TR | TR | 4.5(?) | W34/0247-0 |
| 2628 | 2630 | cut | bulk fraction | | 30 | 35 | 10 | 5 | 20 | 5.0(??) | W34/0224-0 |
| 2800 | 2800 | cut | bulk fraction | | 15 | 25 | 10 | 20 | 30 | 5.0-5.5 | W34/0248-0 |
| 2950 | 2950 | cut | bulk fraction | | 25 | 20 | 10 | 15 | 30 | 5.0-5.5(??) | W34/0249-0 |
| 3100 | 3100 | cut | bulk fraction | | 40 | 15 | 5 | 20 | 20 | 5.5(?) | W34/0250-0 |
| 3275 | 3275 | cut | bulk fraction | | 30 | 15 | 10 | 15 | 30 | 5.5(?) | W34/0251-0 |
| 3400 | 3400 | cut | bulk fraction | | 70 | 10 | 5 | 5 | 10 | NDP/5.5(??) | W34/0252-0 |
| 3525 | 3525 | cut | bulk fraction | | 65 | 15 | 5 | 5 | 10 | 5.0-5.5(??) | W34/0253-0 |
| 3650 | 3650 | cut | bulk fraction | | 40 | 10 | 5 | 30 | 15 | NDP/6.0(??) | W34/0254-0 |
| 3775 | 3775 | cut | bulk fraction | | 85 | 5 | TR | 5 | 5 | NDP/5.5(??) | W34/0255-0 |
| 3875 | 3875 | cut | bulk fraction | | 50 | 5 | TR | 25 | 20 | 5.5-6.0(??) | W34/0256-0 |
| 4000 | 4000 | cut | bulk fraction | | NDP | NDP | NDP | NDP | NDP | NDP | W34/0257-0 |
| 4065 | 4068 | cut | bulk fraction | | 70 | 5 | TR | 20 | 5 | 6.5(??) | W34/0230-0 |
| 4122 | 4125 | cut | bulk fraction | | NDP | NDP | NDP | NDP | NDP | NDP | W34/0043-0 |
| 4197 | 4200 | cut | bulk fraction | | 35 | 10 | 5 | 35 | 15 | 6.5(??) | W34/0246-0 |
| 4314 | 4317 | cut | bulk fraction | | 70 | TR | 15 | 10 | 5 | NDP/6.5(??) | W34/0091-0 |
| 4362.8 | 4362.8 | ccp | bulk fraction | | 5 | TR | TR | 80 | 15 | NDP | W34/0259-0 |
| 4381.9 | 4381.9 | ccp | bulk fraction | | 55 | TR | 10 | 25 | 10 | 6.5-7.0 | W34/0260-0 |
| 4399.95 | 4399.95 | ccp | bulk fraction | | TR | TR | 20 | 30 | 50 | 6.0-6.5 | W34/0261-0 |
| 4479 | 4482 | cut | bulk fraction | | NDP | NDP | NDP | NDP | NDP | 6.5(??) | W34/0120-0 |
| 4518.9 | 4518.9 | ccp | bulk fraction | | 15 | TR | 35 | 15 | 35 | 7 | W34/0262-0 |
| 4522 | 4522 | ccp | bulk fraction | | 5 | TR | 40 | 15 | 40 | 7 | W34/0263-0 |
| 4626 | 4626 | cut | bulk fraction | | NDP | NDP | NDP | NDP | NDP | NDP | W34/0285-0 |
| 4674 | 4674 | cut | bulk fraction | | NDP | NDP | NDP | NDP | NDP | NDP/7.0(??) | W34/0286-0 |

Table 4 Pyrolysis-Gas Chromatography Data (C1:C2-C5:C6-C14:C15+) for NOCS well 6406/5-1 T-2

| Upper depth (m) | Lower depth (m) | Sample type | Description | % Litho. | C1 | C2-C5 | C6-C14 | C15+ | GORP | Sample number |
|--------------------|--------------------|----------------|----------------|-------------|-------|-------|--------|-------|------|------------------|
| 4231.19 | 4231.19 | ccp | sandstone/sand | 70 | 5.15 | 22.65 | 41.38 | 30.82 | 0.39 | W 34/0264-1 |
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 1.89 | 11.61 | 43.66 | 42.85 | 0.16 | W 34/0265-1 |
| 4237.76 | 4237.76 | ccp | sandstone/sand | 100 | 1.93 | 12.04 | 35.08 | 50.94 | 0.16 | W 34/0266-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 2.1 | 11.47 | 47.06 | 39.36 | 0.16 | W 34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 1.95 | 10.97 | 47.67 | 39.41 | 0.15 | W 34/0268-1 |
| 4244.8 | 4244.8 | ccp | sandstone/sand | 100 | 1.01 | 10.92 | 44.8 | 43.26 | 0.14 | W 34/0269-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 1.42 | 11.42 | 44.96 | 42.2 | 0.15 | W 34/0270-1 |
| 4344.43 | 4344.43 | ccp | sandstone/sand | 95 | 12.87 | 25.81 | 48.44 | 12.88 | 0.63 | W 34/0271-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 1.52 | 10.1 | 48.41 | 39.97 | 0.13 | W 34/0272-1 |
| 4352.1 | 4352.1 | ccp | sandstone/sand | 85 | 3.03 | 16.51 | 48.39 | 32.08 | 0.24 | W 34/0273-1 |
| 4359.74 | 4359.74 | ccp | sandstone/sand | 95 | 7.13 | 20.13 | 50.86 | 21.88 | 0.37 | W 34/0274-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 2.86 | 9.43 | 48.64 | 39.07 | 0.14 | W 34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 3.41 | 14.17 | 48.2 | 34.21 | 0.21 | W 34/0276-1 |
| 4380.82 | 4380.82 | ccp | sandstone/sand | 95 | 1.6 | 10.07 | 42.23 | 46.11 | 0.13 | W 34/0277-1 |
| 4387.3 | 4387.3 | ccp | sandstone/sand | 100 | 2.1 | 9.22 | 49.8 | 38.87 | 0.13 | W 34/0278-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 3.52 | 10.8 | 51.26 | 34.42 | 0.17 | W 34/0279-1 |
| 4398 | 4398 | ccp | sandstone/sand | 100 | 2.87 | 12.82 | 51.66 | 32.64 | 0.19 | W 34/0280-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 2.86 | 10.96 | 48.7 | 37.49 | 0.16 | W 34/0281-1 |
| 4499.17 | 4499.17 | ccp | sandstone/sand | 100 | 1.96 | 11.61 | 50.18 | 36.26 | 0.16 | W 34/0282-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 2.34 | 16.07 | 54.23 | 27.36 | 0.23 | W 34/0283-1 |
| 4512.13 | 4512.13 | ccp | sandstone/sand | 10 | 7.24 | 24.19 | 40.88 | 27.69 | 0.46 | W 34/0284-1 |
| 4235.53 | 4235.53 | ccp | asphaltenes | | 2.2 | 15.86 | 38.96 | 42.98 | 0.22 | W 34/0265-0 |
| 4237.76 | 4237.76 | ccp | asphaltenes | | 1.69 | 12.79 | 31.4 | 54.11 | 0.17 | W 34/0266-0 |
| 4254.35 | 4254.35 | ccp | asphaltenes | | 5.15 | 12.8 | 36.62 | 45.43 | 0.22 | W 34/0146-0 |
| 4342.8 | 4342.8 | ccp | asphaltenes | | 2.31 | 13.99 | 34.87 | 48.83 | 0.19 | W 34/0270-0 |
| 4352.1 | 4352.1 | ccp | asphaltenes | | 2.04 | 13.24 | 33.57 | 51.16 | 0.18 | W 34/0273-0 |
| 4362.15 | 4362.15 | ccp | asphaltenes | | 2.32 | 12.16 | 31.35 | 54.17 | 0.17 | W 34/0275-0 |
| 4390.79 | 4390.79 | ccp | asphaltenes | | 2.02 | 12.07 | 31.19 | 54.71 | 0.16 | W 34/0279-0 |
| 4495.23 | 4495.23 | ccp | asphaltenes | | 2.12 | 12 | 29.71 | 56.17 | 0.16 | W 34/0281-0 |
| 4499.17 | 4499.17 | ccp | asphaltenes | | 1.71 | 9.96 | 26.51 | 61.82 | 0.13 | W 34/0282-0 |
| 4508.35 | 4508.35 | ccp | asphaltenes | | 2.48 | 13.21 | 33.72 | 50.59 | 0.19 | W 34/0283-0 |

Table 5a Extraction and Fractionation (MPLC) Data (weights) for NOCS well 6406/5-1 T-2

| Lower depth (m) | Sample type | Description | % Litho. | Rock extracted (g) | EOM (mg) | Sat. | Aro. | NSO | Asph. | TOC(e) | HC | Non- HC | Sample number |
|-----------------|-------------|----------------|----------|--------------------|----------|-------|------|------|-------|--------|--------|---------|---------------|
| 4235.53 | ccp | sandstone/sand | 95 | 10.35 | 84.1 | 75.07 | 3.55 | 5.32 | 0.16 | 0.31 | 78.62 | 5.48 | W34/0265-1 |
| 4239.14 | ccp | sandstone/sand | 100 | 10.21 | 40.1 | 34.15 | 1.83 | 4.02 | 0.11 | 0.24 | 35.98 | 4.12 | W34/0267-1 |
| 4243.75 | ccp | sandstone/sand | 100 | 10.01 | 94.7 | 82.91 | 2.59 | 9.07 | 0.14 | 0.28 | 85.5 | 9.2 | W34/0268-1 |
| 4342.8 | ccp | sandstone/sand | 95 | 10.13 | 53.8 | 46.78 | 1.75 | 5.03 | 0.24 | 0.33 | 48.53 | 5.27 | W34/0270-1 |
| 4348.06 | ccp | sandstone/sand | 100 | 10.08 | 81.3 | 67.68 | 1.61 | 11.7 | 0.27 | 0.24 | 69.29 | 12 | W34/0272-1 |
| 4362.15 | ccp | sandstone/sand | 100 | 10 | 355.6 | 301.1 | 4.82 | 47 | 2.74 | 0.63 | 305.89 | 49.7 | W34/0275-1 |
| 4365.18 | ccp | sandstone/sand | 100 | 10.77 | 188.9 | 179.3 | 1.46 | 7.29 | 0.9 | 0.27 | 180.71 | 8.19 | W34/0276-1 |
| 4390.79 | ccp | sandstone/sand | 100 | 10.01 | 81.2 | 72.14 | 0.9 | 7.78 | 0.38 | 0.39 | 73.04 | 8.16 | W34/0279-1 |
| 4495.23 | ccp | sandstone/sand | 100 | 10 | 229.8 | 216.6 | 2.05 | 10.3 | 0.86 | 0.36 | 218.69 | 11.1 | W34/0281-1 |
| 4508.35 | ccp | sandstone/sand | 100 | 11.47 | 108.8 | 91.85 | 0.86 | 15.5 | 0.57 | 0.22 | 92.71 | 16.1 | W34/0283-1 |

Table 5b MPLC Data (ratios and percent) for NOCS well 6406/5-1 T-2

| Lower depth (m) | Sample type | Description | % Litho. | Sat/ EOM | Aro/ EOM | Asph/ EOM | NSO/ EOM | HC/ EOM | Non-HC/ EOM | Sat/ Aro | HC/ Non-HC | Sample number |
|------------------------|--------------------|--------------------|-----------------|-----------------|-----------------|------------------|-----------------|----------------|--------------------|-----------------|-------------------|----------------------|
| 4235.53 | ccp | sandstone/sand | 95 | 89.26 | 4.22 | 0.19 | 6.33 | 93.5 | 6.52 | 21.17 | 14.34 | W34/0265-1 |
| 4239.14 | ccp | sandstone/sand | 100 | 85.16 | 4.55 | 0.27 | 10.02 | 89.7 | 10.28 | 18.7 | 8.72 | W34/0267-1 |
| 4243.75 | ccp | sandstone/sand | 100 | 87.55 | 2.74 | 0.14 | 9.58 | 90.3 | 9.72 | 32 | 9.29 | W34/0268-1 |
| 4342.8 | ccp | sandstone/sand | 95 | 86.96 | 3.25 | 0.44 | 9.35 | 90.2 | 9.79 | 26.75 | 9.21 | W34/0270-1 |
| 4348.06 | ccp | sandstone/sand | 100 | 83.25 | 1.98 | 0.33 | 14.44 | 85.2 | 14.77 | 42 | 5.77 | W34/0272-1 |
| 4362.15 | ccp | sandstone/sand | 100 | 84.67 | 1.35 | 0.77 | 13.21 | 86 | 13.98 | 62.5 | 6.15 | W34/0275-1 |
| 4365.18 | ccp | sandstone/sand | 100 | 94.89 | 0.77 | 0.48 | 3.86 | 95.7 | 4.34 | 123 | 22.07 | W34/0276-1 |
| 4390.79 | ccp | sandstone/sand | 100 | 88.84 | 1.11 | 0.47 | 9.58 | 90 | 10.05 | 80.33 | 8.95 | W34/0279-1 |
| 4495.23 | ccp | sandstone/sand | 100 | 94.27 | 0.89 | 0.37 | 4.46 | 95.2 | 4.84 | 105.67 | 19.68 | W34/0281-1 |
| 4508.35 | ccp | sandstone/sand | 100 | 84.42 | 0.79 | 0.52 | 14.27 | 85.2 | 14.79 | 106.5 | 5.76 | W34/0283-1 |

Table 6a Saturated Hydrocarbon GC data (Peak Areas) for NOCS 6406/5-1T2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | % Litho. | nC15 | nC16 | Norpristane | nC17 | Pristane | nC18 | Phytane | nC19 | nC20 |
|--------------------|--------------------|----------------|----------------|----------|---------|---------|-------------|---------|----------|---------|---------|---------|---------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 5246486 | 2798244 | 1271866 | 2465381 | 1292512 | 2056694 | 926456 | 1488291 | 1134158 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 3140608 | 1970725 | 784595 | 1861774 | 1261464 | 1659335 | 844797 | 1440413 | 1317429 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 4829903 | 2591895 | 1066406 | 2287024 | 1368229 | 1838860 | 982429 | 1479817 | 1239662 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 4827447 | 2100485 | 941101 | 1669312 | 738496 | 1309490 | 507304 | 928080 | 676688 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 4423569 | 1892252 | 919452 | 1550666 | 769110 | 1230308 | 562215 | 799708 | 604671 |

| nC21 | nC22 | nC23 | nC24 | nC25 | nC26 | nC27 | nC28 | nC29 | nC30 | nC31 | nC32 | nC33 | nC34 | Sample number |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 638170 | 392224 | 246277 | 215058 | 217420 | 133703 | 103938 | 68008 | 55273 | 58414 | 41348 | 37146 | 36977 | 44375 | W34/0265-1 |
| 930161 | 638813 | 538635 | 544845 | 514732 | 367094 | 267054 | 214660 | 200021 | 179696 | 126431 | 107680 | 113906 | 123306 | W34/0267-1 |
| 780400 | 562995 | 417305 | 364129 | 354705 | 260169 | 201957 | 152150 | 137354 | 121225 | 103670 | 97184 | 84647 | 96432 | W34/0270-1 |
| 315976 | 134714 | 86975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | W34/0275-1 |
| 256752 | 110754 | 39215 | 33501 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | W34/0276-1 |

Table 6b Saturated Hydrocarbon GC data (Ratios from peak areas) for NOCS 6406/5-1T2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | % Litho. | Prist./nC17 | Prist./Phyt. | (Prist./nC17)/(Phyt./nC18) | CPI 1 | Phytane/nC18 | nC17/(nC17+nC27) | (Pristane+Phytane)/(nC17+nC18) | Sample number |
|-----------------|-----------------|-------------|-------------|----------|-------------|--------------|----------------------------|-------|--------------|------------------|--------------------------------|---------------|
| 4235.53 | 4235.53 | ccp | sandstone/s | 95 | 0.52 | 1.4 | 1.16 | 1.14 | 0.45 | 0.96 | 0.49 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/s | 100 | 0.68 | 1.49 | 1.33 | 1.06 | 0.51 | 0.87 | 0.6 | W34/0267-1 |
| 4342.8 | 4342.8 | ccp | sandstone/s | 95 | 0.6 | 1.39 | 1.12 | 1.08 | 0.53 | 0.92 | 0.57 | W34/0270-1 |
| 4362.15 | 4362.15 | ccp | sandstone/s | 100 | 0.44 | 1.46 | 1.14 | 0 | 0.39 | 1 | 0.42 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/s | 100 | 0.5 | 1.37 | 1.09 | 0 | 0.46 | 1 | 0.48 | W34/0276-1 |

Table 6c Aromatic Hydrocarbon Gas Chromatography data (peak areas) for well 6406/5-1 T2

| Upper depth (m) | Lower depth (m) | Sample type | Description | % Litho. | 2MN | 1MN | BPh | 2EN | 1EN | 2.6+2.7DMN | 1.6DMN | 1.5DMN |
|----------------------------|----------------------------|--------------------|--------------------|-----------------|------------|------------|------------|------------|------------|-------------------|---------------|---------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 208435 | 108914 | 0 | 0 | 0 | 729194 | 628343 | 233060 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 339798 | 186974 | 0 | 0 | 0 | 862574 | 586931 | 81958 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 605381 | 330271 | 236933 | 240931 | 162371 | 971530 | 708196 | 117773 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 0 | 0 | 0 | 0 | 0 | 54747 | 53683 | 45575 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 0 | 0 | 0 | 0 | 0 | 15974 | 10269 | 17835 |

| 1.3.7TMN | 1.3.6TMN | 1.3.5TMN | 1.4.6+2.3.6TMN | P | 3MP | 2MP | 9MP | 1MP | DBT | 4MDBT | 2+3MDBT | 1MDBT | Sample number |
|-----------------|-----------------|-----------------|-----------------------|----------|------------|------------|------------|------------|------------|--------------|----------------|--------------|--------------------------|
| 181186 | 134179 | 259593 | 98392 | 423265 | 153795 | 226441 | 128254 | 109959 | 0 | 0 | 0 | 0 | W34/0265-1 |
| 314974 | 439321 | 342019 | 421207 | 442282 | 270330 | 397568 | 288092 | 229833 | 0 | 0 | 0 | 0 | W34/0267-1 |
| 413044 | 586894 | 391697 | 536140 | 643158 | 410756 | 598220 | 450217 | 453666 | 0 | 0 | 0 | 0 | W34/0270-1 |
| 0 | 0 | 25950 | 31982 | 24477 | 31664 | 40748 | 43537 | 29479 | 0 | 0 | 0 | 0 | W34/0275-1 |
| 0 | 0 | 16821 | 22531 | 49132 | 23012 | 32324 | 31170 | 19430 | 0 | 0 | 0 | 0 | W34/0276-1 |

Table 6d Aromatic Hydrocarbon Gas Chromatography Ratios (peak areas) for well 6406/5-1 T2

| Upper depth (m) | Lower depth (m) | Sample type | Description | % Litho. | MNR | DMNR | BPhR | 2/1MP | MPI1 | MPI2 | Rc | DBT /Ph | 4/ 1MDBT | (3+2) /1MDBT | F1 | F2 | Sample number |
|--------------------|--------------------|----------------|----------------|----------|------|-------|------|-------|------|------|------|------------|-------------|-----------------|------|------|------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 1.91 | 3.13 | 0 | 2.06 | 0.86 | 1.03 | 0.92 | 0 | 0 | 0 | 0.61 | 0.37 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 1.82 | 10.52 | 0 | 1.73 | 1.04 | 1.24 | 1.03 | 0 | 0 | 0 | 0.56 | 0.34 | W34/0267-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 1.83 | 8.25 | 0.33 | 1.32 | 0.98 | 1.16 | 0.99 | 0 | 0 | 0 | 0.53 | 0.31 | W34/0270-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 0 | 1.2 | 0 | 1.38 | 1.11 | 1.25 | 1.07 | 0 | 0 | 0 | 0.5 | 0.28 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 0 | 0.9 | 0 | 1.66 | 0.83 | 0.97 | 0.9 | 0 | 0 | 0 | 0.52 | 0.31 | W34/0276-1 |

Table 7a GC-MS analysis Alkyl naphthalene peak heights from m/z 142/156/170 fragmentograms for NOCS well 6406/5-1 T-2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | 2MN | 1MN | 2EN | 1EN | 2.6+2.7DMN | 1.3+1.7DMN | 1.6DMN | 1.4+2.3DMN | 1,5 DMN | 1.2DMN | 1.3.7-TMN | 1.3.6-TMN |
|--------------------|--------------------|----------------|----------------|--------|---------|---------|---------|--------|------------|------------|---------|------------|---------|--------|-----------|-----------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 1062228 | 781332 | 248596 | 83324 | 1133529 | 1495418 | 1032354 | 490817 | 204126 | 124424 | 872058 | 1306967 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 3129922 | 1956216 | 755293 | 165609 | 4894031 | 5685004 | 4404243 | 2049440 | 785111 | 277663 | 3337058 | 5689269 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 7111315 | 4778039 | 1552188 | 396167 | 8994884 | 9801185 | 9132497 | 4099466 | 1853982 | 591859 | 6824120 | 7992747 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 6492589 | 4027747 | 1369641 | 209449 | 7874611 | 9176391 | 7157667 | 3386889 | 1026395 | 402543 | 5774358 | 7294152 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 1434919 | 1118210 | 485667 | 104038 | 2699338 | 3373727 | 2718240 | 1228261 | 438754 | 198426 | 2555436 | 3076192 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 13002 | 41323 | 106777 | 60583 | 211886 | 527211 | 269775 | 177445 | 112041 | 100977 | 176079 | 323191 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 38 | 210 | 31 | 3021 | 7304 | 30351 | 18805 | 12209 | 11730 | 8764 | 47928 | 60982 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 80 | 470 | 5322 | 6213 | 37440 | 145386 | 79440 | 65591 | 39084 | 25037 | 197475 | 289098 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 586 | 3696 | 8455 | 10570 | 41489 | 144606 | 79053 | 46513 | 34217 | 22648 | 140164 | 179252 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 3218 | 9170 | 43826 | 32263 | 128866 | 405995 | 204090 | 13636 | 96906 | 84894 | 297435 | 436884 |

Table 7b GC-MS analysis Phenanthrene and methylphenanthrene peak heights from m/z 178/192 fragmentograms for NOCS well 6406/5-1 T-2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | P | 3MP | 2MP | 9MP | 1MP | Sample number |
|--------------------|--------------------|----------------|----------------|--------|---------|---------|---------|---------|---------|------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 2889631 | 918060 | 914001 | 841204 | 643347 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 6139835 | 2508704 | 3146725 | 2954465 | 2159274 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 7849078 | 4360106 | 4419886 | 3742942 | 2836722 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 9200127 | 4517597 | 5188252 | 4893350 | 3866709 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 3863068 | 2379416 | 2086082 | 2136300 | 1554607 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 4078685 | 795796 | 760385 | 628759 | 546330 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 1427202 | 207870 | 168944 | 146869 | 118839 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 3618039 | 988526 | 944579 | 803536 | 563464 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 502776 | 185466 | 176187 | 165346 | 127440 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 6680213 | 1675384 | 1420107 | 1129085 | 1098337 | W34/0283-1 |

Table 7c GC-MS analysis Dibenzothiophene and methyl dibenzothiophene peak heights from m/z 184/198 fragmentograms for NOCS well 6406/5-1 T-2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | DBT | 4MDBT | 2+3MDBT | 1MDBT | Sample number |
|-----------------|-----------------|-------------|----------------|--------|--------|---------|---------|-------|---------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 120591 | 214072 | 53709 | 23333 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 263734 | 684412 | 142885 | 43828 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 504830 | 1183491 | 257153 | 73771 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 451923 | 1000929 | 238831 | 66025 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 152457 | 399567 | 84472 | 29387 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 111212 | 31026 | 14506 | 14191 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 14815 | 7864 | 2553 | 2722 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 71948 | 76561 | 15684 | 9653 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 14954 | 17236 | 4160 | 4959 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 166245 | 41112 | 17001 | 20532 | W34/0283-1 |

Table 7d GC-MS analysis Triaromatic sterane peak heights from m/z 231 fragmentograms

| well | Lower depth (m) | Sample type | Desc | %Lith. | a1 | b1 | c1 | d1 | e1 | f1 | g1 | Sample number |
|-------------|------------------------|--------------------|----------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 6316 | 5790 | 939 | 3896 | 3137 | 2006 | 2717 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 21367 | 20744 | 1240 | 3576 | 2889 | 2013 | 2333 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 37478 | 38559 | 4093 | 14453 | 10948 | 7911 | 9546 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 36345 | 41997 | 2052 | 7697 | 5934 | 3591 | 5212 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 20632 | 21588 | 2413 | 12584 | 9643 | 6638 | 9139 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 2641 | 2511 | 1442 | 8049 | 7316 | 5062 | 6133 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 818 | 702 | 594 | 3588 | 3182 | 2283 | 2969 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 2484 | 2420 | 936 | 6828 | 5893 | 3852 | 5501 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 2844 | 2489 | 1381 | 9460 | 8458 | 5333 | 7033 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 3610 | 2949 | 1560 | 9702 | 9057 | 5747 | 7557 | W34/0283-1 |

Table 7e GC-MS analysis Monoaromatic sterane peak heights from m/z 253 fragmentograms for NOCS well 6406/5-1 T-2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | A1 | B1 | C1 | D1 | E1 | F1 | G1 | H1 | I1 | Sample number |
|--------------------|--------------------|----------------|----------------|--------|-------|-------|------|------|-------|------|-------|-------|------|------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 8481 | 3477 | 3236 | 3177 | 8544 | 2307 | 9388 | 5944 | 2391 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 18902 | 15810 | 3432 | 3603 | 9415 | 3898 | 8330 | 6524 | 2991 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 48521 | 32357 | 7313 | 7798 | 22289 | 8590 | 13492 | 13288 | 5269 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 33304 | 23001 | 4093 | 4498 | 10799 | 4510 | 7712 | 6369 | 3106 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 27349 | 16543 | 5600 | 5290 | 15242 | 5027 | 9664 | 8913 | 3031 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 2028 | 1425 | 2549 | 2107 | 5782 | 985 | 4755 | 4356 | 1847 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 890 | 720 | 1017 | 1101 | 3606 | 542 | 2487 | 2590 | 997 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 2165 | 1292 | 758 | 564 | 1474 | 247 | 1253 | 1182 | 641 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 2633 | 1660 | 941 | 824 | 2007 | 348 | 1674 | 1665 | 757 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 2699 | 1615 | 1585 | 1210 | 3091 | 364 | 2730 | 2634 | 1263 | W34/0283-1 |

Table 7f GC-MS analysis Triaromatic Sterane ratios (peak heights) from m/z 231 fragmentograms for NOCS well 6406/5-1 T-2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | $\frac{a1}{(a1+g1)}$ | $\frac{b1}{(b1+g1)}$ | $\frac{(a1+b1)}{(a1+b1+c1+d1+e1+f1+g1)}$ | $\frac{a1}{(a1+e1+f1+g1)}$ | $\frac{a1}{(a1+d1)}$ | Sample number |
|--------------------|--------------------|----------------|----------------|--------|----------------------|----------------------|--|----------------------------|----------------------|------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 0.7 | 0.68 | 0.49 | 0.45 | 0.62 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 0.9 | 0.9 | 0.78 | 0.75 | 0.86 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 0.8 | 0.8 | 0.62 | 0.57 | 0.72 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 0.87 | 0.89 | 0.76 | 0.71 | 0.83 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 0.69 | 0.7 | 0.51 | 0.45 | 0.62 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 0.3 | 0.29 | 0.16 | 0.12 | 0.25 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 0.22 | 0.19 | 0.11 | 0.09 | 0.19 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 0.31 | 0.31 | 0.18 | 0.14 | 0.27 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 0.29 | 0.26 | 0.14 | 0.12 | 0.23 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 0.32 | 0.28 | 0.16 | 0.14 | 0.27 | W34/0283-1 |

Table 7g GC-MS analysis Monoaromatic sterane ratios (peak heights) from m/z 253 fragmentograms for NOCS well 6406/5-1 T-2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | A1/ (A1+E1) | B1/ (B1+E1) | A1/ (A1+E1+G1) | (A1+B1)/ (A1+B1+C1+D1+E1+ F1+G1+H1+I1) | Sample number |
|--------------------|--------------------|----------------|----------------|--------|----------------|----------------|-------------------|--|------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 0.5 | 0.29 | 0.32 | 0.25 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 0.67 | 0.63 | 0.52 | 0.48 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 0.69 | 0.59 | 0.58 | 0.51 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 0.76 | 0.68 | 0.64 | 0.58 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 0.64 | 0.52 | 0.52 | 0.45 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 0.26 | 0.2 | 0.16 | 0.13 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 0.2 | 0.17 | 0.13 | 0.12 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 0.59 | 0.47 | 0.44 | 0.36 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 0.57 | 0.45 | 0.42 | 0.34 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 0.47 | 0.34 | 0.32 | 0.25 | W34/0283-1 |

Table 7h: Amount of C1-C2-naphthalenes in ng/g aro from m/z 142/156 of ARO FRACTION for NOCS well 6406/5-1 (T2)

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | 2MN | 1MN | 2EN | 1EN | 2.6+2.7- DMN | 1.3+1.7- DMN | 1.6-DMN | 2.3+1.4- DMN | 1.5-DMN | 1.2-DMN | Sample number |
|--------------------|--------------------|----------------|----------------|--------|---------|---------|--------|--------|-----------------|-----------------|---------|-----------------|---------|---------|------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 1535222 | 1129248 | 359292 | 120427 | 1638272 | 2161305 | 1492045 | 709370 | 295020 | 179829 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 1950425 | 1219025 | 470664 | 103200 | 3049737 | 3542636 | 2744524 | 1277118 | 489245 | 173027 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 3814952 | 2563238 | 832690 | 212528 | 4825416 | 5257966 | 4899240 | 2199209 | 994591 | 317510 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 4725744 | 2931666 | 996917 | 152451 | 5731673 | 6679196 | 5209833 | 2465206 | 747079 | 292998 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 1404084 | 1094181 | 475230 | 101802 | 2641332 | 3301229 | 2659828 | 1201867 | 429325 | 194162 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 11192 | 35570 | 91911 | 52149 | 182387 | 453813 | 232218 | 152741 | 96443 | 86919 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 79 | 440 | 64 | 6337 | 15321 | 63664 | 39445 | 25609 | 24604 | 18384 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 82 | 484 | 5480 | 6398 | 38551 | 149701 | 81797 | 67538 | 40244 | 25780 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 497 | 3135 | 7173 | 8968 | 35200 | 122687 | 67070 | 39462 | 29031 | 19215 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 4456 | 12700 | 60697 | 44682 | 178471 | 562277 | 282652 | 18886 | 134209 | 117572 | W34/0283-1 |

Table 7i: Amount of C3-naphthalenes in ng/g aro from m/z 170 of ARO FRACTION for NOCS well 6406/5-1 (T2)

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | 1.3.7- TMN | 1.3.6- TMN | 1.3.5+1.4.6 TMN | 2.3.6- TMN | 1.6.7+1.2.7 DMN | 1.2.6- TMN | 1.2.4- TMN | 1.2.5- TMN | Sample number |
|--------------------|--------------------|----------------|----------------|--------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|---------------|------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 1260372 | 1888939 | 1214408 | 1110475 | 727508 | 256495 | 49787 | 127723 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 2079503 | 3545293 | 1963013 | 2110652 | 1270268 | 339030 | 49754 | 123645 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 3660883 | 4287807 | 2443065 | 3639614 | 2044635 | 362114 | 103534 | 187438 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 4202967 | 5309176 | 3019054 | 3575067 | 1833673 | 494925 | 86374 | 212346 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 2500522 | 3010087 | 1593790 | 2369610 | 1200392 | 322308 | 82970 | 168584 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 151565 | 278197 | 252476 | 161360 | 124535 | 93685 | 30744 | 82049 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 100534 | 127915 | 107388 | 78504 | 70407 | 50374 | 20824 | 56926 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 203336 | 297678 | 233854 | 200541 | 153090 | 81380 | 26790 | 68065 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 118918 | 152081 | 131575 | 82631 | 78994 | 53991 | 16430 | 57563 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 411929 | 605057 | 555792 | 343129 | 289246 | 201522 | 78083 | 207643 | W34/0283-1 |

Table 7j: Amount of phenanthrenes in ng/g aro from m/z 178/192 of ARO FRACTION for NOCS well 6406/5-1 (T2)

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | P | 3MP | 2MP | 9MP | 1MP | Sample number |
|-----------------|-----------------|-------------|----------------|--------|---------|---------|---------|---------|---------|---------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 4176339 | 1326858 | 1320992 | 1215779 | 929820 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 3826066 | 1563310 | 1960896 | 1841088 | 1345561 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 4210734 | 2339032 | 2371102 | 2007947 | 1521794 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 6696473 | 3288212 | 3776360 | 3561710 | 2814452 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 3780054 | 2328285 | 2041254 | 2090393 | 1521200 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 3510857 | 685006 | 654526 | 541224 | 470271 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 2993675 | 436024 | 354374 | 308070 | 249274 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 3725423 | 1017866 | 972615 | 827385 | 580187 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 426565 | 157353 | 149480 | 140283 | 108123 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 9251662 | 2320298 | 1966756 | 1563710 | 1521126 | W34/0283-1 |

Table 7k: Amount of dibenzothiophenes in ng/g aro from m/z 184/198 of ARO FRACTION for NOCS well 6406/5-1 (T2)

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | DBT | 4 MDBT | 2+3 MDBT | 1 MDBT | Sample number |
|--------------------|--------------------|----------------|----------------|--------|--------|--------|----------|--------|------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 174288 | 309394 | 77625 | 33722 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 164347 | 426494 | 89039 | 27312 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 270822 | 634898 | 137953 | 39575 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 328940 | 728544 | 173837 | 48058 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 149181 | 390981 | 82657 | 28756 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 95730 | 26707 | 12487 | 12216 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 31075 | 16495 | 5355 | 5709 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 74083 | 78833 | 16150 | 9939 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 12688 | 14623 | 3529 | 4207 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 230239 | 56937 | 23545 | 28436 | W34/0283-1 |

Table 71: Amount of triaromatic steranes in ng/g aro from m/z 231 of ARO FRACTION for NOCS well 6406/5-1 (T2)

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | a1 | b1 | c1 | d1 | e1 | f1 | g1 | Sample number |
|--------------------|--------------------|----------------|----------------|--------|-------|-------|------|-------|-------|------|-------|------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 9128 | 8368 | 1357 | 5631 | 4533 | 2899 | 3927 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 13315 | 12926 | 773 | 2229 | 1800 | 1254 | 1454 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 20106 | 20686 | 2196 | 7753 | 5873 | 4244 | 5121 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 26455 | 30568 | 1494 | 5603 | 4319 | 2614 | 3794 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 20188 | 21124 | 2361 | 12314 | 9436 | 6495 | 8942 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 2273 | 2162 | 1242 | 6928 | 6297 | 4357 | 5280 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 1717 | 1473 | 1246 | 7526 | 6675 | 4788 | 6229 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 2557 | 2491 | 964 | 7031 | 6067 | 3967 | 5664 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 2413 | 2112 | 1171 | 8026 | 7176 | 4525 | 5967 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 4999 | 4084 | 2160 | 13436 | 12544 | 7959 | 10466 | W34/0283-1 |

Table 7m: Amount of monoaromatic steranes in ng/g aro from m/z 253 of ARO FRACTION for NOCS well 6406/5-1 (T2)

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | A1 | B1 | C1 | D1 | E1 | F1 | G1 | H1 | I1 | Sample number |
|-----------------|-----------------|-------------|----------------|--------|-------|-------|------|------|-------|------|-------|------|------|---------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 12257 | 5026 | 4677 | 4592 | 12348 | 3334 | 13569 | 8591 | 3456 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 11779 | 9852 | 2139 | 2245 | 5867 | 2429 | 5191 | 4066 | 1864 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 26030 | 17358 | 3923 | 4183 | 11957 | 4608 | 7238 | 7128 | 2827 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 24241 | 16741 | 2979 | 3274 | 7860 | 3283 | 5613 | 4636 | 2261 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 26761 | 16188 | 5479 | 5177 | 14915 | 4919 | 9456 | 8722 | 2965 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 1746 | 1226 | 2194 | 1814 | 4977 | 848 | 4093 | 3749 | 1589 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 1866 | 1510 | 2132 | 2310 | 7563 | 1137 | 5216 | 5432 | 2091 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 2230 | 1330 | 780 | 581 | 1518 | 254 | 1291 | 1217 | 660 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 2233 | 1408 | 798 | 699 | 1703 | 295 | 1420 | 1413 | 642 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 3737 | 2236 | 2195 | 1676 | 4280 | 504 | 3781 | 3648 | 1749 | W34/0283-1 |

Table 7n Amount of standard (d12 chrysene) and weight of sample for NOCS 6406/5-1 T2

| Upper depth (m) | Lower depth (m) | Sample type | Desc | %Lith. | Standard (peak hts) | Amount | Weight | Sample number |
|----------------------------|----------------------------|------------------------|----------------|---------------|--------------------------------|---------------|---------------|--------------------------|
| 4235.53 | 4235.53 | ccp | sandstone/sand | 95 | 403611 | 0.70 | 1.20 | W34/0265-1 |
| 4239.14 | 4239.14 | ccp | sandstone/sand | 100 | 1123317 | 0.70 | 1.00 | W34/0267-1 |
| 4243.75 | 4243.75 | ccp | sandstone/sand | 100 | 1631056 | 0.70 | 0.80 | W34/0268-1 |
| 4342.8 | 4342.8 | ccp | sandstone/sand | 95 | 1202142 | 0.7 | 0.8 | W34/0270-1 |
| 4348.06 | 4348.06 | ccp | sandstone/sand | 100 | 1021961 | 0.7 | 0.7 | W34/0272-1 |
| 4362.15 | 4362.15 | ccp | sandstone/sand | 100 | 2033036 | 0.7 | 0.4 | W34/0275-1 |
| 4365.18 | 4365.18 | ccp | sandstone/sand | 100 | 1668587 | 0.700 | 0.2 | W34/0276-1 |
| 4390.79 | 4390.79 | ccp | sandstone/sand | 100 | 2266076 | 0.7 | 0.3 | W34/0279-1 |
| 4495.23 | 4495.23 | ccp | sandstone/sand | 100 | 2750212 | 0.7 | 0.3 | W34/0281-1 |
| 4508.35 | 4508.35 | ccp | sandstone/sand | 100 | 2527194 | 0.70 | 0.2 | W34/0283-1 |

Table 8 Extraction Data (weights) for NOCS well 6406/5-1 T-2 (hexane extraction/TOC data/DCM extraction/asphaltenes)

| Lower depth (m) | Sample type | Description | % Litho. | Rock extracted (g) | Hexane EOM (mg) | TOC(e) after hexane extraction | DCM EOM (mg) after demineralising | Asph . | Sample number |
|-----------------|-------------|----------------|----------|--------------------|-----------------|--------------------------------|-----------------------------------|--------|---------------|
| 4235.53 | ccp | sandstone/sand | 95 | 10.58 | 65.7 | 0.13 | 1.3 | 0.3 | W34/0265-1 |
| 4237.76 | ccp | sandstone/sand | 100 | 9.99 | 73.4 | 0.21 | 2.2 | 0.3 | W34/0266-1 |
| 4239.14 | ccp | sandstone/sand | 100 | 10.06 | 34.5 | 0.12 | - | - | W34/0267-1 |
| 4243.75 | ccp | sandstone/sand | 100 | 10.21 | 85.8 | 0.13 | - | - | W34/0268-1 |
| 4244.8 | ccp | sandstone/sand | 100 | 9.84 | 71.5 | 0.15 | - | - | W34/0269-1 |
| 4342.8 | ccp | sandstone/sand | 95 | 10.86 | 49 | 0.21 | 1.6 | 0.7 | W34/0270-1 |
| 4348.06 | ccp | sandstone/sand | 100 | 10.08 | 65.8 | 0.15 | - | - | W34/0272-1 |
| 4352.1 | ccp | sandstone/sand | 85 | 10.13 | 23.7 | 0.38 | 2 | 0.5 | W34/0273-1 |
| 4359.74 | ccp | sandstone/sand | 95 | 9.9 | 20.2 | 0.21 | - | - | W34/0274-1 |
| 4362.15 | ccp | sandstone/sand | 100 | 10.53 | 370.4 | 0.21 | 2.6 | 1.0 | W34/0275-1 |
| 4365.18 | ccp | sandstone/sand | 100 | 10.25 | 156.6 | 0.16 | - | - | W34/0276-1 |
| 4380.82 | ccp | sandstone/sand | 95 | 10.06 | 114.9 | 0.2 | - | - | W34/0277-1 |
| 4387.3 | ccp | sandstone/sand | 100 | 9.96 | 61.2 | 0.17 | - | - | W34/0278-1 |
| 4390.79 | ccp | sandstone/sand | 100 | 10.22 | 144 | 0.21 | 3.2 | 0.4 | W34/0279-1 |
| 4398 | ccp | sandstone/sand | 100 | 10.11 | 125.7 | 0.14 | - | - | W34/0280-1 |
| 4495.23 | ccp | sandstone/sand | 100 | 10.44 | 221.2 | 0.24 | 3.1 | 0.8 | W34/0281-1 |
| 4499.17 | ccp | sandstone/sand | 100 | 10.14 | 126.7 | 0.16 | 2.9 | 0.3 | W34/0282-1 |
| 4508.35 | ccp | sandstone/sand | 100 | 10.39 | 73.2 | 0.12 | 1.3 | 0.2 | W34/0283-1 |