

ENVIRONMENTAL STUDIES,
SOUTH TEXAS OUTER CONTINENTAL SHELF,
BIOLOGY AND CHEMISTRY

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by

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APPENDIX G

WATER COLUMN BACTERIOLOGY

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TABLE 1

MICROBIAL POPULATIONS IN WATER SAMPLES
COLLECTED ALONG TRANSECT II DURING EACH CRUISE.

Explanation of Table:

Winter - Cruise 1
March - Cruise 2
April - Cruise 3
Spring - Cruise 4
July - Cruise 5
August - Cruise 6
Fall - Cruise 7
November-Cruise 8
December-Cruise 9

TABLE 1 CONT.'D

Samples Collected on Cruise 1 (February 17, 1977), Transect II.

One-half percent SL crude oil was added to the sample on Feb. 17.

| Stn # | Date | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | † Ratio |
|-------|------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 2/17 | 0 | 8.9X10 ¹ | 1.949 | * | * | -- |
| | 4/18 | 60 | 1.6X10 ⁶ | 6.204 | 4.2X10 ³ | 3.623 | .0026 |
| | 5/7 | 79 | 1.6X10 ⁶ | 6.204 | 9.0X10 ² | 2.954 | .0006 |
| | 5/20 | 92 | 1.8X10 ⁶ | 6.255 | 1.4X10 ³ | 3.146 | .0008 |
| | 6/7 | 110 | 8.9X10 ⁵ | 5.949 | 1.9X10 ³ | 3.279 | .0021 |
| 2 | 2/17 | 0 | 7.1X10 ⁰ | 0.851 | * | * | -- |
| | 4/18 | 60 | 1.0X10 ⁴ | 4.000 | 3.3X10 ² | 2.519 | .0330 |
| | 5/7 | 79 | 2.4X10 ⁴ | 4.380 | 2.3X10 ² | 2.362 | .0096 |
| | 5/20 | 92 | 5.0X10 ⁴ | 4.689 | ** | -- | -- |
| | 6/7 | 110 | 1.7X10 ⁵ | 5.230 | 1.7X10 ³ | 3.230 | .0100 |
| 3 | 2/17 | 0 | 5.2X10 ⁰ | 0.716 | * | * | -- |
| | 4/18 | 60 | 1.9X10 ⁶ | 6.279 | 9.8X10 ¹ | 1.991 | .0001 |
| | 5/7 | 79 | 1.9X10 ⁶ | 6.279 | 1.2X10 ³ | 3.079 | .0006 |
| | 5/20 | 92 | 3.0X10 ⁶ | 6.477 | ** | -- | -- |
| | 6/7 | 110 | 2.1X10 ⁶ | 6.322 | 3.3X10 ³ | 3.519 | .0016 |

* <1/10 ml

** No Growth on Plates

-- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 2 (March 25, 1977), Transect II.

No oil added.

| Stn # | Date | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------|------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 3/25 | 0 | 8.9X10 ⁰ | 0.949 | * | * | -- |
| | 4/16 | 23 | 1.8X10 ⁵ | 5.255 | ** | ** | -- |
| | 5/7 | 44 | 9.4X10 ⁵ | 5.973 | 2.8X10 ⁴ | 4.447 | .0298 |
| | 5/20 | 57 | 2.3X10 ⁶ | 6.362 | ** | ** | -- |
| | 6/7 | 75 | 4.5X10 ⁵ | 5.653 | 6.5X10 ² | 2.813 | .0014 |
| | 6/20 | 88 | 1.7X10 ⁶ | 6.230 | 4.4X10 ³ | 3.638 | .0026 |
| 2 | 3/25 | 0 | 1.4X10 ⁰ | 0.146 | * | * | -- |
| | 4/16 | 23 | 1.4X10 ⁵ | 5.146 | ** | ** | -- |
| | 5/7 | 44 | 1.8X10 ⁵ | 5.255 | 4.1X10 ² | 2.613 | .0023 |
| | 5/20 | 57 | 1.2X10 ⁷ | 7.079 | ** | ** | -- |
| | 6/7 | 75 | 5.8X10 ⁵ | 5.763 | 1.0X10 ² | 2.000 | .0002 |
| | 6/20 | 88 | 6.0X10 ⁵ | 5.778 | 2.0X10 ² | 2.301 | .0003 |
| 3 | 3/25 | 0 | 4.1X10 ⁰ | 0.613 | * | * | -- |
| | 4/16 | 23 | 1.9X10 ⁵ | 5.279 | ** | ** | -- |
| | 5/7 | 44 | 1.9X10 ⁶ | 6.279 | 7.7X10 ² | 2.886 | .0004 |
| | 5/20 | 57 | 2.4X10 ⁷ | 7.380 | ** | ** | -- |
| | 6/7 | 75 | 1.3X10 ⁶ | 6.114 | 1.3X10 ³ | 3.114 | .0010 |
| | 6/20 | 88 | 3.0X10 ⁶ | 6.477 | 5.3X10 ² | 2.720 | .0002 |

* <1/10 ml

** No Growth on Plates

-- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 2 (March 25, 1977), Transect II.

One-half percent SL crude oil was added to the sample March 25.

| Stn # | Date | Time | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------|------|------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 3/25 | 0 | 8.9X10 ⁰ | 0.949 | * | * | -- |
| | 4/16 | 23 | 2.5X10 ⁵ | 5.398 | 2.4X10 ³ | 3.380 | .0096 |
| | 5/7 | 44 | 6.3X10 ⁵ | 5.799 | 1.2X10 ⁴ | 4.079 | .0019 |
| | 5/20 | 57 | 8.8X10 ⁵ | 5.944 | 3.0X10 ⁴ | 4.477 | .0034 |
| | 6/7 | 75 | 9.3X10 ⁵ | 5.968 | 3.0X10 ⁴ | 4.477 | .0032 |
| | 6/20 | 88 | 1.4X10 ⁶ | 6.146 | ** | ** | -- |
| 2 | 3/25 | 0 | 1.4X10 ⁰ | 0.146 | * | * | -- |
| | 4/16 | 23 | 2.2X10 ⁵ | 5.342 | 5.5X10 ² | 2.740 | .0025 |
| | 5/7 | 44 | 2.1X10 ⁶ | 6.322 | 4.5X10 ⁴ | 4.653 | .0214 |
| | 5/20 | 57 | 1.1X10 ⁶ | 6.041 | ** | ** | -- |
| | 6/7 | 75 | 3.5X10 ⁵ | 5.544 | 5.0X10 ³ | 3.699 | .0143 |
| | 6/20 | 88 | 1.8X10 ⁶ | 6.255 | 3.6X10 ⁴ | 4.556 | .0200 |
| 3 | 3/25 | 0 | 4.1X10 ⁰ | 0.613 | * | * | -- |
| | 4/16 | 23 | 4.5X10 ⁴ | 4.653 | 8.1X10 ² | 2.908 | .0180 |
| | 5/7 | 44 | 2.8X10 ⁵ | 5.447 | 3.6X10 ⁴ | 4.556 | .1286 |
| | 5/20 | 57 | 4.0X10 ⁵ | 5.602 | 2.4X10 ³ | 3.380 | .0060 |
| | 6/7 | 75 | 1.2X10 ⁶ | 6.079 | 4.1X10 ³ | 3.613 | .0034 |
| | 6/20 | 88 | 2.0X10 ⁶ | 6.301 | 1.1X10 ⁴ | 4.041 | .0055 |

* <1/10 ml

** No Growth on Plates

-- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT. 'D

Samples Collected on Cruise 3 (April 25, 1977) Transect II.

Control Samples (No Oil Added)

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 4/25 | 0 | 2.8x10 ² | 2.445 | * | — | — |
| | 5/7 | 2 | 3.6x10 ³ | 5.561 | 1.6x10 ⁴ | 4.210 | .0446 |
| | 5/20 | 25 | 4.8x10 ³ | 5.677 | ** | — | — |
| | 6/7 | 43 | 3.6x10 ³ | 5.553 | 2.9x10 ³ | 3.459 | .0080 |
| | 6/20 | 56 | 4.0x10 ³ | 5.600 | 6.9x10 ³ | 3.840 | .0172 |
| | 7/2 | 68 | 7.3x10 ⁴ | 5.870 | 3.6x10 ⁴ | 4.560 | .0498 |
| | 7/22 | 88 | 2.9x10 ³ | 5.460 | 2.7x10 ³ | 3.440 | .0094 |
| 2 | 4/25 | 0 | 1.1x10 ² | 2.026 | * | — | — |
| | 5/7 | 2 | 2.7x10 ³ | 5.439 | 5.6x10 ⁴ | 4.752 | .0206 |
| | 5/20 | 25 | 2.0x10 ³ | 5.301 | 1.0x10 ⁴ | 4.009 | .0510 |
| | 6/7 | 43 | 9.5x10 ⁴ | 4.978 | ** | — | — |
| | 6/20 | 56 | 2.2x10 ³ | 5.350 | 1.0x10 ³ | 3.000 | .0044 |
| | 7/2 | 68 | 1.3x10 ³ | 5.120 | 1.5x10 ³ | 3.180 | .0115 |
| | 7/22 | 88 | 1.4x10 ³ | 5.150 | 3.3x10 ² | 2.520 | .0022 |
| 3 | 4/25 | 0 | 5.2x10 | 1.720 | * | — | — |
| | 5/7 | 2 | 5.9x10 ⁴ | 4.769 | ** | — | — |
| | 5/20 | 25 | 2.0x10 ³ | 5.301 | ** | — | — |
| | 6/7 | 43 | 3.0x10 ⁴ | 4.477 | 1.2x10 ³ | 3.097 | .0001 |
| | 6/20 | 56 | 1.0x10 ³ | 4.999 | 2.5x10 ³ | 3.400 | .0044 |
| | 7/2 | 68 | 3.0x10 ⁴ | 4.480 | 1.0x10 ² | 2.000 | .0115 |
| | 7/22 | 88 | 6.0x10 ⁴ | 4.780 | 1.3x10 | 3.120 | .0022 |

* <1 per 10 ml

** No growth on Plates

— Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT. 'D

Samples Collected on Cruise 3 (April 25, 1977) Transect II.

One half percent SL crude oil was added to sample on April 25, 1977.

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 4/25 | 0 | 2.8x10 ² | 2.445 | * | - | - |
| | 5/7 | 2 | 8.6x10 ⁶ | 5.936 | 4.2x10 ⁴ | 4.619 | .0482 |
| | 5/20 | 25 | 1.6x10 ⁶ | 6.197 | ** | - | - |
| | 6/7 | 43 | 1.7x10 ⁶ | 6.230 | ** | - | - |
| | 6/20 | 56 | 1.9x10 ⁶ | 6.290 | 2.0x10 ² | 2.300 | <.0001 |
| | 7/2 | 68 | 1.9x10 ⁶ | 6.290 | 1.0x10 ⁴ | 4.000 | .0050 |
| | 7/22 | 88 | 2.1x10 ⁶ | 6.310 | 2.3x10 ² | 2.360 | .0001 |
| 2 | 4/25 | 0 | 1.1x10 ² | 2.026 | * | - | - |
| | 5/7 | 2 | 1.3x10 ⁶ | 6.105 | 6.9x10 ² | 2.838 | .0005 |
| | 5/20 | 25 | 2.4x10 ⁶ | 6.389 | 1.0x10 ⁴ | 4.600 | .0042 |
| | 6/7 | 43 | 1.3x10 ⁶ | 1.106 | ** | - | - |
| | 6/20 | 56 | 2.7x10 ⁶ | 6.430 | ** | - | - |
| | 7/2 | 68 | 1.1x10 ⁶ | 6.020 | 1.3x10 ³ | 3.110 | .0012 |
| | 7/22 | 88 | 1.3x10 ⁶ | 6.110 | 2.0x10 ² | 2.300 | <.0001 |
| 3 | 4/25 | 0 | 5.3x10 | 1.720 | * | - | - |
| | 5/7 | 2 | 4.3x10 ⁶ | 5.636 | ** | - | - |
| | 5/20 | 25 | 7.8x10 ⁶ | 5.889 | ** | - | - |
| | 6/7 | 43 | 3.9x10 ⁶ | 6.588 | ** | - | - |
| | 6/20 | 56 | 4.3x10 ⁶ | 5.640 | 5.0x10 ² | 2.700 | .0010 |
| | 7/2 | 68 | 3.3x10 ⁶ | 5.520 | 2.5x10 ² | 2.400 | .0008 |
| | 7/22 | 88 | 1.2x10 ⁶ | 5.080 | 1.5x10 ² | 2.170 | .0012 |

* <1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 4 (June 10, 1977) Transect II.

One half percent SL crude oil was added to the sample on June 10, 1977.

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 6/10 | 0 | 3.3×10^2 | 2.519 | * | - | - |
| | 6/20 | 10 | ** | ** | 4.0×10^3 | 3.602 | - |
| | 7/2 | 22 | 6.9×10^5 | 5.839 | 1.7×10^2 | 2.230 | .0002 |
| | 7/22 | 42 | 8.0×10^5 | 5.903 | 9.3×10^2 | 2.968 | .0012 |
| | 8/10 | 61 | 9.2×10^5 | 5.964 | 5.5×10^2 | 2.740 | .0006 |
| 2 | 6/10 | 0 | 1.2×10^2 | 2.079 | * | - | - |
| | 6/20 | 10 | 4.5×10^5 | 5.653 | 1.7×10^3 | 3.230 | .0038 |
| | 7/2 | 22 | 1.6×10^5 | 5.204 | 2.5×10^3 | 3.398 | .0158 |
| | 7/22 | 42 | 2.1×10^5 | 5.322 | 2.3×10^2 | 2.362 | .0012 |
| | 8/10 | 61 | 1.4×10^5 | 5.146 | 3.3×10^2 | 2.519 | .0024 |
| 3 | 6/10 | 0 | 3.0×10^2 | 2.477 | * | - | - |
| | 6/20 | 10 | 2.5×10^4 | 4.398 | 1.5×10^2 | 2.176 | .0063 |
| | 7/2 | 22 | 1.5×10^5 | 5.176 | 9.8×10^2 | 2.991 | .0067 |
| | 7/22 | 42 | 2.5×10^4 | 4.398 | 4.1×10^2 | 2.613 | .0162 |
| | 8/10 | 61 | 4.0×10^4 | 4.602 | 7.5×10^1 | 1.875 | .0019 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 4 (June 10, 1977) Transect II.

Control Samples (No Oil Added)

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 6/10 | 0 | 3.3x10 ² | 2.519 | * | - | - |
| | 6/20 | 10 | 2.4x10 ⁶ | 6.380 | 7.8x10 ³ | 3.892 | .0033 |
| | 7/2 | 22 | 8.4x10 ⁵ | 5.924 | 2.8x10 ⁴ | 4.447 | .0333 |
| | 7/22 | 42 | 1.3x10 ⁶ | 6.114 | 5.9x10 ³ | 3.771 | .0045 |
| | 8/10 | 61 | 9.2x10 ⁵ | 5.964 | 4.1x10 ³ | 3.613 | .0045 |
| 2 | 6/10 | 0 | 1.2x10 ² | 2.079 | * | - | - |
| | 6/20 | 10 | 7.5x10 ⁴ | 4.875 | ** | ** | - |
| | 7/2 | 22 | 2.0x10 ⁵ | 5.301 | 1.2x10 ³ | 3.079 | .0060 |
| | 7/22 | 42 | 2.3x10 ⁵ | 5.362 | 1.0x10 ² | 2.000 | .0004 |
| | 8/10 | 61 | 1.4x10 ⁵ | 5.146 | 5.8x10 ² | 2.763 | .0041 |
| 3 | 6/10 | 0 | 3.0x10 ² | 2.477 | * | - | - |
| | 6/20 | 10 | 6.6x10 ⁴ | 4.820 | 2.5x10 ² | 2.407 | .0038 |
| | 7/2 | 22 | 1.8x10 ⁵ | 5.255 | 2.3x10 ³ | 3.361 | .0128 |
| | 7/22 | 42 | 9.5x10 ⁴ | 4.978 | 4.5x10 ² | 2.653 | .0047 |
| | 8/10 | 61 | 4.0x10 ⁴ | 4.602 | 1.8x10 ² | 2.255 | .0045 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 5 (July 9, 1977) Transect II.

One-half percent SL crude oil was added to the samples July 9, 1977.

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 7/9 | 0 | 1.7x10 ² | 2.230 | * | - | - |
| | 7/22 | 13 | 4.3x10 ⁴ | 4.633 | 2.5x10 ² | 2.390 | .0058 |
| | 8/10 | 32 | 3.2x10 ⁶ | 6.505 | 1.8x10 ² | 2.255 | .0001 |
| | 9/2 | 55 | 1.3x10 ⁵ | 5.114 | ** | - | - |
| | 9/16 | 69 | 8.2x10 ⁴ | 4.914 | 3.0x10 ² | 2.477 | .0037 |
| 2 | 7/9 | 0 | 9.4x10 ¹ | 1.973 | * | - | - |
| | 7/22 | 13 | 1.8x10 ⁵ | 5.255 | 3.6x10 ³ | 3.556 | .0020 |
| | 8/10 | 32 | 2.4x10 ⁵ | 5.380 | 6.9x10 ² | 2.839 | .0029 |
| | 9/2 | 55 | 8.2x10 ⁴ | 4.914 | 5.9x10 ² | 2.771 | .0072 |
| | 9/16 | 69 | 8.8x10 ⁴ | 4.944 | 1.2x10 ³ | 3.079 | .0136 |
| 3 | 7/9 | 0 | 6.7x10 ¹ | 1.826 | * | - | - |
| | 7/22 | 13 | 1.9x10 ⁵ | 5.279 | 4.2x10 ³ | 3.620 | .0221 |
| | 8/10 | 32 | 4.4x10 ⁵ | 5.643 | 1.0x10 ³ | 3.000 | .0023 |
| | 9/2 | 55 | 1.7x10 ⁵ | 5.230 | 2.1x10 ³ | 3.322 | .0124 |
| | 9/16 | 69 | 1.2x10 ⁵ | 5.079 | 1.4x10 ⁴ | 4.146 | .0117 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 5 (July 9, 1977) Transect II.

Control Sample (No Oil Added).

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 7/9 | 0 | 1.7x10 ² | 2.230 | * | - | - |
| | 7/22 | 13 | 1.3x10 ⁵ | 5.120 | 1.3x10 ² | 2.114 | .0001 |
| | 8/10 | 32 | 1.4x10 ⁵ | 5.146 | 1.5x10 ² | 2.176 | .0011 |
| | 9/2 | 55 | 6.2x10 ⁵ | 5.792 | 2.3x10 ² | 2.362 | .0004 |
| | 9/16 | 69 | 2.7x10 ⁵ | 5.431 | 1.2x10 ² | 2.079 | .0004 |
| 2 | 7/9 | 0 | 9.4x10 ² | 2.964 | * | - | - |
| | 7/22 | 13 | 3.5x10 ⁵ | 5.544 | 6.1x10 ² | 2.785 | .0017 |
| | 8/10 | 32 | 1.3x10 ⁵ | 5.114 | 1.4x10 ² | 2.146 | .0011 |
| | 9/2 | 55 | 2.5x10 ⁵ | 5.398 | 7.5x10 ² | 2.875 | .0030 |
| | 9/16 | 69 | 1.5x10 ⁵ | 5.176 | 2.0x10 ³ | 3.301 | .0013 |
| 3 | 7/9 | 0 | 6.7x10 ¹ | 1.826 | * | - | - |
| | 7/22 | 13 | 1.5x10 ⁵ | 5.176 | 2.0x10 ³ | 3.301 | .0013 |
| | 8/10 | 32 | 4.4x10 ⁵ | 5.643 | 7.5x10 ³ | 3.875 | .0170 |
| | 9/2 | 55 | 1.4x10 ⁵ | 5.146 | 9.1x10 ³ | 3.959 | .0650 |
| | 9/16 | 69 | 1.1x10 ⁵ | 5.041 | 3.2x10 ⁴ | 4.505 | .2909 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples Collected on Cruise 6 (August 6, 1977) Transect II.

Control Sample (No Oil Added).

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 8/6 | 0 | 1.8x10 ² | 2.255 | * | - | - |
| | 8/13 | 7 | 2.1x10 ⁵ | 5.322 | 1.9x10 ² | 2.278 | .0009 |
| | 9/2 | 27 | 3.2x10 ⁵ | 5.505 | 1.9x10 ² | 2.278 | .0006 |
| | 9/16 | 41 | 4.1x10 ⁴ | 4.613 | 3.5x10 ² | 2.544 | .0083 |
| | 10/6 | 61 | 4.2x10 ⁴ | 4.623 | 2.8x10 ³ | 3.447 | .0667 |
| | 10/26 | 81 | 2.8x10 ⁴ | 4.447 | 4.0x10 ³ | 3.602 | .1428 |
| 2 | 8/6 | 0 | 4.1x10 ¹ | 1.613 | * | - | - |
| | 8/13 | 7 | 9.6x10 ⁴ | 4.982 | 1.1x10 ³ | 3.041 | .0114 |
| | 9/2 | 27 | 1.6x10 ⁵ | 5.204 | 9.8x10 ³ | 3.991 | .0613 |
| | 9/16 | 41 | 1.4x10 ⁵ | 5.146 | 1.3x10 ⁴ | 4.114 | .0928 |
| | 10/6 | 61 | 1.6x10 ⁵ | 5.204 | 1.2x10 ⁴ | 4.079 | .0750 |
| | 10/26 | 81 | 1.9x10 ⁵ | 5.279 | 1.1x10 ⁴ | 4.041 | .0579 |
| 3 | 8/6 | 0 | 4.6x10 ¹ | 1.663 | * | - | - |
| | 8/13 | 7 | 1.7x10 ⁵ | 5.230 | 1.5x10 ² | 2.176 | .0009 |
| | 9/2 | 27 | 8.1x10 ⁴ | 4.908 | 5.8x10 ¹ | 1.763 | .0007 |
| | 9/16 | 41 | 4.7x10 ⁴ | 4.672 | 3.0x10 ¹ | 1.477 | .0006 |
| | 10/6 | 61 | 1.5x10 ⁴ | 4.176 | 2.3x10 ² | 2.362 | .0153 |
| | 10/26 | 81 | 1.3x10 ⁴ | 4.114 | 4.0x10 ¹ | 1.602 | .0028 |

* 1 per 10 ml

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D
 Samples Collected on Cruise 6 (August 6, 1977) Transect II.

One-half percent SL crude oil was added to the sample August 6, 1977.

| Station Number | Sample Number | Date Sample Plated | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|----------------|---------------|--------------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | | Number | Log ₁₀ | Number | Log ₁₀ | |
| 1 | 0 | 8/6 | 0 | 1.8x10 ² | 2.255 | * | - | - |
| | 1 | 8/13 | 7 | 4.7x10 ⁴ | 4.682 | 4.0x10 ² | 2.602 | .0085 |
| | 2 | 9/2 | 27 | 7.7x10 ⁴ | 4.886 | 5.2x10 ¹ | 1.716 | .0007 |
| | 3 | 9/16 | 41 | 9.3x10 ⁴ | 4.968 | 7.3x10 ² | 2.863 | .0078 |
| | 4 | 10/6 | 61 | 7.9x10 ⁴ | 4.898 | 2.2x10 ² | 2.342 | .0028 |
| | 5 | 10/26 | 81 | 8.7x10 ⁴ | 4.940 | 6.3x10 ³ | 3.799 | .0724 |
| 2 | 0 | 8/6 | 0 | 4.1x10 ¹ | 1.613 | * | - | - |
| | 1 | 8/13 | 7 | 1.5x10 ⁵ | 5.176 | 1.1x10 ³ | 3.041 | .0073 |
| | 2 | 9/2 | 27 | 1.5x10 ⁵ | 5.176 | 9.8x10 ² | 2.991 | .0065 |
| | 3 | 9/16 | 41 | 2.7x10 ⁵ | 5.431 | 1.3x10 ⁴ | 4.114 | .0481 |
| | 4 | 10/6 | 61 | 5.4x10 ⁵ | 5.732 | 1.0x10 ³ | 3.000 | .0019 |
| | 5 | 10/26 | 81 | 2.2x10 ⁵ | 5.342 | 1.6x10 ⁴ | 4.204 | .0727 |
| 3 | 0 | 8/6 | 0 | 4.6x10 ¹ | 1.662 | * | - | - |
| | 1 | 8/13 | 7 | 1.1x10 ⁵ | 5.041 | 3.4x10 ² | 2.531 | .0031 |
| | 2 | 9/2 | 27 | 3.4x10 ⁴ | 4.531 | 4.5x10 ¹ | 1.653 | .0013 |
| | 3 | 9/16 | 41 | 2.5x10 ⁴ | 4.398 | 3.5x10 ¹ | 1.544 | .0014 |
| | 4 | 10/6 | 61 | 2.2x10 ⁴ | 4.342 | 2.8x10 ¹ | 1.447 | .0012 |
| | 5 | 10/26 | 81 | 2.6x10 ⁵ | 5.415 | 3.8x10 ¹ | 1.580 | .0001 |

* 1 per 10 ml

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 7 (October 21, 1977) Transect II.

One-tenth percent SL crude oil was added to the samples October 21, 1977.

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 10/21 | 0 | 1.2x10 ² | 2.079 | * | - | - |
| | 11/10 | 20 | 1.2x10 ⁵ | 5.079 | 1.9x10 ³ | 3.279 | .0158 |
| | 12/5 | 45 | 1.3x10 ⁵ | 5.114 | 4.3x10 ³ | 3.633 | .0331 |
| | 2/1 | 100 | 4.2x10 ⁵ | 5.623 | 4.5x10 ³ | 3.653 | .0107 |
| 2 | 10/21 | 0 | 7.3x10 ¹ | 1.863 | * | - | - |
| | 11/10 | 20 | 9.6x10 ⁴ | 4.982 | 5.0x10 ² | 2.699 | .0052 |
| | 12/5 | 45 | 1.2x10 ⁵ | 5.079 | 3.6x10 ³ | 3.556 | .0300 |
| | 2/1 | 100 | 6.8x10 ⁵ | 5.833 | 3.8x10 ³ | 3.580 | .0056 |
| 3 | 10/21 | 0 | 1.5x10 ¹ | 1.176 | * | - | - |
| | 11/10 | 20 | 5.9x10 ⁴ | 4.771 | 1.3x10 ² | 2.114 | .0022 |
| | 12/5 | 45 | 4.2x10 ⁴ | 4.623 | 1.4x10 ³ | 3.146 | .0333 |
| | 2/1 | 100 | 7.2x10 ⁴ | 4.857 | 1.2x10 ³ | 3.079 | .0166 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 7 (October 21, 1977) Transect II.

Control Samples (No Oil Added).

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 10/21 | 0 | 1.2x10 ² | 2.079 | * | - | - |
| | 11/10 | 20 | 5.4x10 ⁴ | 4.732 | 6.8x10 ² | 2.833 | .0126 |
| | 12/5 | 45 | 6.8x10 ⁴ | 4.833 | 4.4x10 ³ | 3.643 | .0647 |
| | 2/1 | 100 | 7.4x10 ⁵ | 5.869 | 4.4x10 ³ | 3.643 | .0059 |
| 2 | 10/21 | 0 | 7.3x10 ¹ | 1.863 | * | - | - |
| | 11/10 | 20 | 7.1x10 ⁴ | 4.851 | 2.8x10 ³ | 3.447 | .0394 |
| | 12/5 | 45 | 6.7x10 ⁴ | 4.826 | 7.6x10 ³ | 3.881 | .1134 |
| | 2/1 | 100 | 2.9x10 ⁴ | 4.462 | 7.1x10 ³ | 3.851 | .2448 |
| 3 | 10/21 | 0 | 1.5x10 ¹ | 1.176 | * | - | - |
| | 11/10 | 20 | 2.7x10 ⁴ | 4.431 | 7.0x10 ¹ | 1.845 | .0026 |
| | 12/5 | 45 | 1.6x10 ⁴ | 4.204 | 5.0x10 ¹ | 1.699 | .0031 |
| | 2/1 | 100 | 2.7x10 ⁵ | 5.431 | 1.4x10 ² | 2.146 | .0005 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 8 (November 20, 1977) Transect II.

Control Samples (No Oil Added).

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 11/20 | 0 | 4.0x10 ¹ | 1.602 | * | - | - |
| | 12/7 | 17 | 7.2x10 ⁴ | 4.857 | 6.3x10 ³ | 3.799 | .0875 |
| | 1/3 | 44 | 6.8x10 ⁴ | 4.833 | 2.4x10 ² | 2.380 | .0035 |
| | 2/9 | 84 | 3.7x10 ⁴ | 4.568 | 3.3x10 ³ | 3.519 | .0892 |
| | 4/19 | 122 | 4.8x10 ⁴ | 4.681 | 2.4x10 ² | 2.380 | .0050 |
| 2 | 11/20 | 0 | 3.0x10 ¹ | 1.477 | * | - | - |
| | 12/7 | 17 | 1.2x10 ⁴ | 4.079 | 6.3x10 ¹ | 1.799 | .0015 |
| | 1/3 | 44 | 3.3x10 ³ | 3.519 | 5.0x10 ¹ | 1.699 | .0152 |
| | 2/9 | 84 | 6.5x10 ³ | 3.813 | 1.3x10 ² | 2.114 | .0200 |
| | 4/19 | 122 | 2.0x10 ⁴ | 4.301 | 2.5x10 ¹ | 1.398 | .0012 |
| 3 | 11/20 | 0 | 1.9x10 ¹ | 1.279 | * | - | - |
| | 12/7 | 17 | 2.9x10 ⁵ | 5.462 | 1.2x10 ⁴ | 4.079 | .0414 |
| | 1/3 | 44 | 1.7x10 ⁵ | 5.230 | 1.1x10 ³ | 3.041 | .0065 |
| | 2/9 | 84 | 2.1x10 ⁵ | 5.322 | 3.5x10 ³ | 3.544 | .0167 |
| | 4/19 | 122 | 3.8x10 ⁴ | 4.580 | 5.4x10 ² | 2.732 | .0142 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 8 (November 20, 1977) Transect II.

One-tenth percent SL crude oil was added to the samples November 20, 1977.

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 11/20 | 0 | 4.0x10 ¹ | 1.602 | * | - | - |
| | 12/7 | 17 | 7.6x10 ⁵ | 5.881 | 3.6x10 ³ | 3.556 | .0047 |
| | 1/3 | 44 | 4.3x10 ⁵ | 5.633 | 1.6x10 ³ | 3.204 | .0037 |
| | 2/9 | 84 | 9.2x10 ⁵ | 5.964 | 3.8x10 ³ | 3.580 | .0041 |
| | 4/19 | 122 | 2.8x10 ⁵ | 5.447 | 1.7x10 ² | 3.230 | .0006 |
| 2 | 11/20 | 0 | 3.0x10 ¹ | 1.477 | * | - | - |
| | 12/7 | 17 | 4.3x10 ⁴ | 4.633 | 1.8x10 ³ | 3.255 | .0419 |
| | 1/3 | 44 | 1.4x10 ⁴ | 4.146 | 1.0x10 ² | 2.000 | .0071 |
| | 2/9 | 84 | 1.2x10 ⁴ | 4.079 | 1.3x10 ² | 2.114 | .0108 |
| | 4/19 | 122 | 4.4x10 ⁴ | 4.643 | 1.8x10 ² | 2.255 | .0041 |
| 3 | 11/20 | 0 | 1.9x10 ¹ | 1.279 | * | - | - |
| | 12/7 | 17 | 5.9x10 ⁵ | 5.771 | 1.9x10 ⁴ | 4.279 | .0322 |
| | 1/3 | 44 | 2.5x10 ⁵ | 5.398 | 1.9x10 ³ | 3.279 | .0076 |
| | 2/9 | 84 | 3.4x10 ⁵ | 5.531 | 3.1x10 ³ | 3.491 | .0124 |
| | 4/19 | 122 | 3.4x10 ⁵ | 5.531 | 1.8x10 ³ | 3.255 | .0053 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 9 (December 16, 1977) Transect II.

One-tenth percent SL crude oil was added to the samples November 20, 1977.

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 12/16 | 0 | 1.6x10 ² | 2.204 | * | - | - |
| | 1/3 | 18 | 2.3x10 ⁵ | 5.362 | 4.5x10 ² | 2.653 | .0019 |
| | 2/20 | 66 | 1.8x10 ⁵ | 5.255 | 5.3x10 ² | 2.724 | .0029 |
| | 4/19 | 124 | 3.5x10 ⁵ | 5.544 | 5.6x10 ² | 2.748 | .0016 |
| 2 | 12/16 | 0 | 5.9x10 ¹ | 1.771 | * | - | - |
| | 1/3 | 18 | 2.3x10 ⁵ | 5.362 | 1.9x10 ² | 2.279 | .0008 |
| | 2/20 | 66 | 8.8x10 ⁴ | 4.944 | 2.6x10 ² | 2.415 | .0030 |
| | 4/19 | 124 | 1.5x10 ⁵ | 5.176 | 2.1x10 ² | 2.322 | .0014 |
| 3 | 12/16 | 0 | 1.4x10 ¹ | 1.146 | * | - | - |
| | 1/3 | 18 | 6.1x10 ⁴ | 4.785 | 3.2x10 ² | 2.505 | .0052 |
| | 2/20 | 66 | 6.8x10 ³ | 3.833 | 8.5x10 ¹ | 1.929 | .0125 |
| | 4/19 | 124 | 6.3x10 ³ | 3.799 | 1.8x10 ² | 2.255 | .0285 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 1 CONT.'D

Samples collected on Cruise 9 (December 16, 1977) Transect II.

Control Samples (No Oil Added).

| Station No. | Date Measured | Time (Days) | Average Total Heterotrophs | | Average Total Oil Degraders | | Ratio † |
|-------------|---------------|-------------|----------------------------|-------------------|-----------------------------|-------------------|---------|
| | | | Number cells/ml | Log ₁₀ | Number cells/ml | Log ₁₀ | |
| 1 | 12/16 | 0 | 1.6x10 ² | 2.204 | * | - | - |
| | 1/3 | 18 | 3.2x10 ⁵ | 5.505 | 5.0x10 ² | 2.699 | .0016 |
| | 2/20 | 66 | 1.7x10 ⁵ | 5.230 | 5.6x10 ² | 2.748 | .0033 |
| | 4/19 | 124 | 1.4x10 ⁵ | 5.146 | 5.8x10 ² | 2.763 | .0041 |
| 2 | 12/16 | 0 | 5.9x10 ¹ | 1.771 | * | - | - |
| | 1/3 | 18 | 1.6x10 ⁵ | 5.204 | 7.3x10 ² | 2.863 | .0046 |
| | 2/20 | 66 | 7.1x10 ⁴ | 4.851 | 7.3x10 ² | 2.863 | .0103 |
| | 4/19 | 124 | 6.6x10 ⁵ | 5.820 | 3.4x10 ² | 2.531 | .0005 |
| 3 | 12/16 | 0 | 1.4x10 ¹ | 1.146 | * | - | - |
| | 1/3 | 18 | 1.4x10 ⁴ | 4.146 | 2.3x10 ² | 2.362 | .0164 |
| | 2/20 | 66 | 1.8x10 ⁴ | 4.255 | 4.3x10 ¹ | 1.633 | .0024 |
| | 4/19 | 124 | 1.0x10 ⁴ | 4.000 | 1.5x10 ² | 2.176 | .0150 |

* 1 per 10 ml

** No growth on Plates

- Indeterminant

† Oil Deg./Total Het.

TABLE 2

SUCCESSION OF HETEROTROPHS IN A CLOSED SYSTEM
INCUBATED WITH/WITHOUT SOUTH LOUISIANA CRUDE OIL

Explanation of Table:

Data for Stations 1, 2 and 3, Transect II are presented for each cruise
and for each treatment (oil/no oil)

Winter - Cruise 1
March - Cruise 2
April - Cruise 3
Spring - Cruise 4
July - Cruise 5
August - Cruise 6
Fall - Cruise 7
November- Cruise 8
December- Cruise 9

TABLE 2 CONT.'D

| Cruise 1 Transect II Station 1 | DATE | With SLCO | | | | | |
|--------------------------------------|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| | | TIME (DAYS) | | | | | |
| | | 2/17 | 4/18 | 5/7 | 5/20 | 6/7 | |
| | CFUs per ml | 8.9×10 ⁴ | 1.6×10 ⁶ | 1.6×10 ⁶ | 1.8×10 ⁶ | 8.9×10 ⁵ | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Pseudomonas #3 | | - | - | † | - | - | |
| Unknown Ps #7(y)* | | - | - | † | - | - | |
| Unknown Ps #6* | | - | - | † | - | - | |
| Pseudomonas #5 | | - | - | † | - | - | |
| Unknown Ps #7(t) | | - | - | † | - | - | |
| Unknown Ps #7(b) | | - | - | † | - | - | |
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- Plates desiccated before analysis was attempted
 + Lost in culture
 * in progress
 † Insufficient data collected to calculate percent

TABLE 2 CONT.'D

| Cruise 1 Transect II Station 2 | DATE | With SLCO | | | | | |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| | | TIME (DAYS) | | | | | |
| CFUs per ml | | 2/17 | 4/18 | 5/7 | 5/20 | 6/7 | |
| | | 0 | 60 | 79 | 92 | 110 | |
| | | 7.1×10^0 | 1.0×10^4 | 2.4×10^4 | 5.0×10^4 | 1.7×10^5 | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Pseudomonas #3 | | - | - | - | - | - | |
| Unknown Ps #7(o)* | | - | - | - | - | - | |
| Unknown Ps #6* | | - | - | - | - | - | |
| Unknown Ps #7(y)* | | - | - | - | - | - | |
| Unknown Ps #7(b) | | - | - | - | - | - | |
| Flavobacterium II | | - | - | - | - | - | |
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- Plates desiccated before analysis was attempted
 + Lost in culture
 * in progress

TABLE 2 CONT.'D

| Cruise 1 | DATE | With SLCO | | | | | |
|----------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| | | TIME (DAYS) | | | | | |
| Transect II | | 2/17 | 4/18 | 5/7 | 5/20 | 6/7 | |
| Station 3 | | 0 | 60 | 79 | 92 | 110 | |
| CFUs per ml | | 5.2×10^0 | 1.9×10^6 | 1.9×10^6 | 3.0×10^6 | 2.1×10^6 | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Unknown Ps #8* | | - | - | † | - | - | |
| Pseudomonas #3 | | - | - | † | - | - | |
| Pseudomonas #5 | | - | - | † | - | - | |
| Pseudomonas #4 | | - | - | † | - | - | |
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- Plates desiccated before analysis was attempted
- + Lost in culture
- * in progress
- † Insufficient data collected to calculate percent

TABLE 2 CONT.'D

| Cruise 2 | DATE | Without SLCO | | TIME (DAYS) | | | |
|-------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | 3/25 | 4/16 | 5/7 | 5/20 | 6/7 | 6/20 |
| Transect II | | 0 | 23 | 44 | 57 | 75 | 88 |
| Station 1 | CFUs per ml | 8.9×10 ⁰ | 1.8×10 ⁵ | 9.4×10 ⁵ | 2.3×10 ⁶ | 4.5×10 ⁵ | 1.7×10 ⁶ |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| | - | - | - | - | - | - | - |
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- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D
Without SLCO TIME (DAYS)

| Cruise 2 Transect II Station 2 | DATE | TIME (DAYS) | | | | | |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 3/25 | 4/16 | 5/7 | 5/20 | 6/7 | 6/20 |
| | CFUs per ml | 0 | 23 | 44 | 57 | 75 | 88 |
| | | 1.4×10^0 | 1.4×10^5 | 1.8×10^5 | 1.2×10^7 | 5.8×10^5 | 6.0×10^5 |
| STRAIN | % OF TOTAL CFUs | | | | | | |
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- Plates desiccated before analysis was attempted
 + Lost in culture
 * in progress

TABLE 2 CONT.'D
Without SLCO TIME (DAYS)

| Cruise 2 Transect II Station 3 | DATE | TIME (DAYS) | | | | | |
|--------------------------------------|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | 3/25 | 4/16 | 5/7 | 5/20 | 6/7 | 6/20 |
| | CFUs per ml | 4.1×10 ⁰ | 1.9×10 ⁵ | 1.9×10 ⁶ | 2.4×10 ⁷ | 1.3×10 ⁶ | 3.0×10 ⁶ |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| | | - | - | - | - | - | - |
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- Plates desicated before analysis was attempted
 + Lost in culture
 * in progress

TABLE 2 CONT.'D

With SLCO

| Cruise 2 Transect II Station 1 | | DATE | TIME (DAYS) | | | | | |
|--------------------------------------|--|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | 3/25 | 4/16 | 5/7 | 5/20 | 6/7 | 6/20 |
| | | | 0 | 23 | 44 | 57 | 75 | 88 |
| | | CFUs per ml | 8.9×10^0 | 2.5×10^5 | 6.3×10^5 | 8.8×10^5 | 9.3×10^5 | 1.4×10^6 |
| | | STRAIN | % OF TOTAL CFUs | | | | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| | | With SLCO | TIME (DAYS) | | | | |
|-------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Cruise 2 | DATE | 3/25 | 4/16 | 5/7 | 5/20 | 6/7 | 6/20 |
| Transect II | | 0 | 23 | 44 | 57 | 75 | 88 |
| Station 2 | CFUs per ml | 1.4×10 ⁰ | 2.2×10 ⁵ | 2.1×10 ⁶ | 1.1×10 ⁶ | 3.5×10 ⁵ | 1.8×10 ⁶ |
| STRAIN | % OF TOTAL CFUs | | | | | | |
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- Plates desicated before analysis was attempted
 + Lost in culture
 * in progress

TABLE 2 CONT.'D

| Cruise 2 | DATE | With SLCO | | | | | |
|-------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 3/25 | 4/16 | 5/7 | 5/20 | 6/7 | 6/20 |
| Transect II | | 0 | 23 | 44 | 57 | 75 | 88 |
| Station 3 | CFUs per ml | 4.1×10^0 | 4.5×10^4 | 2.8×10^5 | 4.0×10^5 | 1.2×10^6 | 2.0×10^6 |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| | | - | - | - | - | - | - |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 3 Transect II Station 1 | DATE | Without SLCO | | | | | |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | TIME (DAYS) | | | | | |
| CFUs per ml | | 4/25 | 5/7 | 5/20 | 6/7 | 6/20 | 7/22 |
| | | 0 | 2 | 25 | 43 | 56 | 88 |
| | | 2.8×10^2 | 3.6×10^5 | 4.8×10^5 | 3.6×10^5 | 4.0×10^5 | 2.9×10^5 |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #7(b)* | - | - | - | - | - | † | |
| Unknown Ps #6* | - | - | - | - | - | † | |
| Coryneform D | - | - | - | - | - | † | |
| Unknown 2-3 | - | - | - | - | - | † | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

† Insufficient data collected to calculate percent

TABLE 2 CONT.'D
Without SLCO TIME (DAYS)

| Cruise 3 Transect II Station 2 | DATE | TIME (DAYS) | | | | | |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 4/25 | 5/7 | 5/20 | 6/7 | 6/20 | 7/22 |
| | CFUs per ml | 1.1×10^2 | 2.7×10^5 | 2.0×10^5 | 9.5×10^4 | 2.2×10^5 | 1.4×10^5 |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #7(b)* | - | - | - | - | - | + | |
| Actinomycetes | - | - | - | - | - | + | |
| Flavobacterium I | - | - | - | - | - | + | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

† Insufficient data collected to calculate percent

TABLE 2 CONT.'D
Without SLCO TIME (DAYS)

| Cruise 3 | DATE | 4/25 | 5/7 | 5/20 | 6/7 | 6/20 | 7/22 |
|-------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Transect II | | 0 | 2 | 25 | 43 | 56 | 88 |
| Station 3 | CFUs per ml | 5.2x10 ¹ | 5.9x10 ⁴ | 2.0x10 ⁵ | 3.0x10 ⁴ | 1.5x10 ⁵ | 6.0x10 ⁴ |
| | STRAIN | % OF TOTAL CFUs | | | | | |
| | Unknown Ps #6 | - | - | - | - | - | † |
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- Plates desiccated before analysis was attempted
 + Lost in culture
 * in progress
 † Insufficient data collected to calculate percent

TABLE 2 CONT.'D
With SLCO

| Cruise 3 Transect II Station 1 | DATE | TIME (DAYS) | | | | | |
|--------------------------------------|------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | 4/25 | 5/7 | 5/20 | 6/7 | 6/20 | 7/22 |
| | | CFUs per ml | | | | | |
| | | 2.8×10 ² | 8.6×10 ⁵ | 1.6×10 ⁶ | 1.7×10 ⁶ | 1.9×10 ⁶ | 2.1×10 ⁶ |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Unknown Ps #6* | | - | - | - | - | - | † |
| Flavobacterium I | | - | - | - | - | - | † |
| Flavobacterium II | | - | - | - | - | - | † |
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- Plates desicated before analysis was attempted
- + Lost in culture
- * in progress
- † Insufficient data collected to calculate percent

TABLE 2 CONT.'D
With SLCO TIME (DAYS)

| Cruise 3 Transect II Station 2 | DATE | CFUs per ml | | | | | |
|--------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | 4/25 | 5/7 | 5/20 | 6/7 | 6/20 | 7/22 |
| | | 1.1×10 ² | 1.3×10 ⁶ | 2.4×10 ⁶ | 1.3×10 ⁶ | 2.7×10 ⁶ | 1.3×10 ⁶ |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| | | - | - | - | - | - | - |
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- Plates desiccated before analysis was attempted
 + Lost in culture
 * in progress

TABLE 2 CONT.'D

| Cruise 3 Transect II Station 3 | DATE | With SLCO | | | | | |
|--------------------------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | TIME (DAYS) | | | | | |
| CFUs per ml | | 4/25 | 5/7 | 5/20 | 6/7 | 6/20 | 7/22 |
| | | 0 | 2 | 25 | 43 | 56 | 88 |
| | | 5.3×10^1 | 4.3×10^5 | 7.8×10^5 | 3.9×10^6 | 4.3×10^5 | 1.2×10^5 |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| | | - | - | - | - | - | - |
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- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

| Cruise 4 Transect II Station 1 | DATE | Without SLCO | | | | | TIME (DAYS) | | | | |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------|--|--|--|--|
| | | 6/10 | 6/20 | 7/2 | 7/22 | 8/10 | | | | | |
| | | 0 | 10 | 22 | 42 | 61 | | | | | |
| | CFUs per ml | 3.3×10^2 | 2.4×10^6 | 8.4×10^5 | 1.3×10^6 | 9.2×10^5 | | | | | |
| STRAIN | % OF TOTAL CFUs | | | | | | | | | | |
| Unknown 1-4 | 4.4 | - | - | - | 0 | | | | | | |
| Unknown 2-4 | 8.8 | - | - | - | 0 | | | | | | |
| Unknown 3-4 | 50.6 | - | - | - | 0 | | | | | | |
| Unknown 4-4 | 26.3 | - | - | - | 0 | | | | | | |
| Unknown 5-4 | 1.1 | - | - | - | 0 | | | | | | |
| Unknown 6-4 | 1.1 | - | - | - | 0 | | | | | | |
| Unknown 7-4 | 2.2 | - | - | - | 0 | | | | | | |
| Unknown 8-4 | 4.4 | - | - | - | 0 | | | | | | |
| Unknown 9-4 | 1.1 | - | - | - | 0 | | | | | | |
| Pseudomonas #5 | 0 | - | - | - | 17.0 | | | | | | |
| Micrococcus | 0 | - | - | - | 12.9 | | | | | | |
| Coryneform C | 0 | - | - | - | 12.9 | | | | | | |
| Unknown Ps #6* | 0 | - | - | - | 26.6 | | | | | | |
| Pseudomonas #2 | 0 | - | - | - | 13.7 | | | | | | |
| Coryneform D | 0 | - | - | - | 13.6 | | | | | | |
| Unknown Ps #7(b)* | 0 | - | - | - | 3.3 | | | | | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 4 Transect II Station 2 | DATE | Without SICO | | TIME (DAYS) | | |
|--------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | 6/10 | 6/20 | 7/2 | 7/22 | 8/10 |
| | CFUs per ml | 1.2×10 ² | 7.5×10 ⁴ | 2.0×10 ⁵ | 2.3×10 ⁵ | 1.4×10 ⁵ |
| STRAIN | % OF TOTAL CFUs | | | | | |
| Unknown Ps #6* | - | - | - | - | 41.6 | |
| Pseudomonas #5 | - | - | - | - | 8.2 | |
| Micrococcus | - | - | - | - | 2.1 | |
| Coryneform B | - | - | - | - | 23.2 | |
| Pseudomonas #2 | - | - | - | - | 2.1 | |
| Coryneform D | - | - | - | - | 18.4 | |
| Unknown Ps #8* | - | - | - | - | 4.4 | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 4 Transect II Station 3 | DATE | Without SLCO | | TIME (DAYS) | | |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 6/10 | 6/20 | 7/2 | 7/22 | 8/10 |
| | | 0 | 10 | 22 | 42 | 61 |
| | CFUs per ml | 3.0×10^2 | 6.6×10^4 | 1.8×10^5 | 9.5×10^4 | 4.0×10^4 |
| STRAIN | % OF TOTAL CFUs | | | | | |
| Unknown 10-4 | - | - | - | - | 13.0 | |
| Unknown Ps #6* | - | - | - | - | 6.8 | |
| Coryneform C | - | - | - | - | 18.9 | |
| Coryneform D | - | - | - | - | 21.4 | |
| Pseudomonas #4 | - | - | - | - | 18.9 | |
| Pseudomonas #5 | - | - | - | - | 0.3 | |
| Pseudomonas #3 | - | - | - | - | 2.2 | |
| Unknown Ps #7(p) | - | - | - | - | 18.5 | |
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- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 4 Transect II Station 1 | DATE | TIME (DAYS) | | | | | CFUs per ml |
|--------------------------------------|-----------------|-------------------|------|-------------------|-------------------|-------------------|----------------|
| | | 6/10 | 6/20 | 7/2 | 7/22 | 8/10 | |
| | | 0 | 10 | 22 | 42 | 61 | |
| | | 3.3×10^2 | ** | 6.9×10^5 | 8.0×10^5 | 9.2×10^5 | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Unknown 1-4 | 4.4 | - | - | - | 0 | | |
| Unknown 2-4 | 8.8 | - | - | - | 0 | | |
| Unknown 3-4 | 50.6 | - | - | - | 0 | | |
| Unknown 4-4 | 26.3 | - | - | - | 0 | | |
| Unknown 5-4 | 1.1 | - | - | - | 0 | | |
| Unknown 6-4 | 1.1 | - | - | - | 0 | | |
| Unknown 7-4 | 2.2 | - | - | - | 0 | | |
| Unknown 8.4 | 4.4 | - | - | - | 0 | | |
| Unknown 9.4 | 1.1 | - | - | - | 0 | | |
| Unknown Ps #6* | 0 | - | - | - | 37.5 | | |
| Unknown 10-4 | 0 | - | - | - | 46.6 | | |
| Pseudomonas #1 | 0 | - | - | - | 13.6 | | |
| Micrococcus | 0 | - | - | - | 1.1 | | |
| Unknown Ps #7(y)* | 0 | - | - | - | 1.2 | | |
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- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

** no growth on plates

TABLE 2 CONT.'D

| Cruise 4 Transect II Station 2 | DATE | With SLCO | | | | |
|--------------------------------------|------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | TIME (DAYS) | | | | |
| CFUs per ml | | 6/10 | 6/20 | 7/2 | 7/22 | 8/10 |
| | | 0 | 10 | 22 | 42 | 61 |
| | | 1.2×10 ² | 4.5×10 ⁵ | 1.6×10 ⁵ | 2.1×10 ⁵ | 1.4×10 ⁵ |
| STRAIN | | % OF TOTAL CFUs | | | | |
| Unknown 10-4 | | - | - | - | - | 17.0 |
| Pseudomonas #1 | | - | - | - | - | 25.5 |
| Coryneform B | | - | - | - | - | 12.8 |
| Unknown Ps #7(y)* | | - | - | - | - | 14.9 |
| Unknown Ps #6* | | - | - | - | - | 29.8 |
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- Plates desiccated before analysis was attempted
 + Lost in culture
 * in progress

TABLE 2 CONT. 'D
With SLCO TIME (DAYS)

| Cruise 4 | DATE | 6/10 | 6/20 | 7/2 | 7/22 | 8/10 | |
|----------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Transect II | | 0 | 10 | 22 | 42 | 61 | |
| Station 3 | CFUs per ml | 3.0×10^2 | 2.5×10^4 | 1.5×10^5 | 2.5×10^4 | 4.0×10^4 | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Pseudomonas #2 | - | - | - | - | - | 44.8 | |
| Coryneform B | - | - | - | - | - | 31.7 | |
| Coryneform C | - | - | - | - | - | 19.1 | |
| Pseudomonas #1 | - | - | - | - | - | 2.4 | |
| Unknown Ps #8* | - | - | - | - | - | 1.0 | |
| Pseudomonas #3 | - | - | - | - | - | 1.0 | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 5 Transect II Station 1 | DATE | Without SLCO | | TIME (DAYS) | | |
|--------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 7/9 | 7/22 | 8/10 | 9/2 | 9/16 |
| | | 0 | L3 | 32 | 55 | 69 |
| | CFUs per ml | 1.7×10^2 | 1.3×10^5 | 1.4×10^5 | 6.2×10^5 | 2.7×10^5 |
| STRAIN | % OF TOTAL CFUs | | | | | |
| Pseudomonas #3 | 50.5 | - | 0 | 0 | 0 | |
| Unknown 1-5 | 38.3 ⁺ | - | 7.2 ⁺ | 0 | 0 | |
| Unknown 2-5 | 8.0 | - | 0 | 0 | 0 | |
| Unknown 3-5 | 1.0 | - | 0 | 0 | 0 | |
| Unknown 4-5 | 2.2 | - | 0 | 0 | 0 | |
| Unknown 7-5 | 0 | - | 3.1 | 0 | 0 | |
| Coryneform D | 0 | - | 9.3 | 0 | 0 | |
| Pseudomonas #2 | 0 | - | 40.2 | 0 | 0 | |
| Unknown Ps #6* | 0 | - | 0 | 60.0 | 85.2 | |
| Pseudomonas #1 | 0 | - | 0 | 0 | 2.4 | |
| Unknown Ps #5(p)* | 0 | - | 0 | 2.7 | 0 | |
| Unknown 6-5 | 0 | - | 0 | 13.3 | 0 | |
| Unknown 8-5 | 0 | - | 0 | 24.0 | 0 | |
| Flavobacterium III | 0 | - | 0 | 0 | 2.4 | |
| Moraxella | 0 | - | 0 | 0 | 5.9 | |
| Acinetobacter | 0 | - | 0 | 0 | 4.1 | |
| Coryneform B | 0 | - | 40.2 | 0 | 0 | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 5 Transect II Station 2 | DATE | Without SLCO | | | | | CFUs per ml |
|--------------------------------------|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|
| | | TIME (DAYS) | | | | | |
| | | 7/9 | 7/22 | 8/10 | 9/2 | 9/16 | |
| | | 0 | 13 | 32 | 55 | 69 | |
| | | 9.4×10^2 | 3.5×10^5 | 1.3×10^5 | 2.5×10^5 | 1.5×10^5 | |
| STRAIN | % OF TOTAL CFUs ⁺ | | | | | | |
| Unknown Ps #6 | - | - | 74.4 | 21.7 | 51.4 | | |
| Pseudomonas #5 | - | - | 1.3 | 0 | 0 | | |
| Flavobacterium I | - | - | 14.1 | 8.7 | 8.1 | | |
| Pseudomonas #1 | - | - | 5.1 | 0 | 0 | | |
| Unknown Ps #7(b)* | - | - | 5.1 | 0 | 0 | | |
| Unknown 6-5 | - | - | 0 | 4.3 | 0 | | |
| Unknown 1-5 | - | - | 0 | 65.3 | 0 | | |
| Unknown 7-5 | - | - | 0 | 0 | 40.5 | | |
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- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| | | Without SLCO | | | | | TIME (DAYS) | |
|-------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------|--|
| Cruise 5 | DATE | 7/9 | 7/22 | 8/10 | 9/2 | 9/16 | | |
| Transect II | | 0 | 13 | 32 | 55 | 69 | | |
| Station 3 | CFUs per ml | 6.7×10^1 | 1.5×10^5 | 4.4×10^5 | 1.4×10^5 | 1.1×10^5 | | |
| STRAIN | | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #7(b)* | - | - | 4.8 | 0 | 0 | | | |
| Unknown Ps #7(y)* | - | - | 52.4 | 1.9 | 2.3 | | | |
| Unknown Ps #6* | - | - | 14.3 | 53.8 | 79.0 | | | |
| Pseudomonas #5 | - | - | 7.1 | 0 | 5.7 | | | |
| Pseudomonas #1 | - | - | 7.2 | 17.2 | 0 | | | |
| Coryneform D | - | - | 9.7 | 0 | 0 | | | |
| Unknown 2-5 | - | - | 4.8 | 0 | 0 | | | |
| Acinetobacter | - | - | 4.7 | 0 | 0 | | | |
| Pseudomonas #3 | - | - | 0 | 27.1 | 0 | | | |
| Pseudomonas #4 | - | - | 0 | 0 | 10.2 | | | |
| Actinomycetes | - | - | 0 | 0 | 2.8 | | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT. 'D

| Cruise 5 Transect II Station 1 | DATE | WITH SLCO | | | | | |
|---|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| | | TIME (DAYS) | | | | | |
| | | 7/9 | 7/22 | 8/10 | 9/2 | 9/16 | |
| | CFUs per ml | 1.7×10^2 | 4.3×10^4 | 3.2×10^6 | 1.3×10^5 | 8.2×10^4 | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Pseudomonas #3 | | 50.5 | - | 58.3 | 0 | 0 | |
| Unknown 1-5 | | 38.3 | - | 0 | 0 | 0 | |
| Unknown 2-5 | | 8.0 | - | 0 | 0 | 0 | |
| Unknown 3-5 | | 1.0 | - | 0 | 0 | 0 | |
| Unknown 4-5 | | 2.2 | - | 0 | 0 | 0 | |
| Unknown 5-5 | | 0 | - | 16.7 | 0 | 0 | |
| Flavobacterium II | | 0 | - | 25.0 | 38.9 | 1.6 | |
| Unknown Ps #5 [*] _(y) | | 0 | - | 0 | 5.6 | 0 | |
| Unknown Ps #6 [*] | | 0 | - | 0 | 55.5 | 98.4 | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 5 Transect II Station 2 | DATE | With SLCO | | TIME (DAYS) | | |
|--------------------------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 7/9 | 7/22 | 8/10 | 9/2 | 9/16 |
| | | 0 | 13 | 32 | 55 | 69 |
| | CFUs per ml | 9.4×10^1 | 1.8×10^5 | 2.4×10^5 | 8.2×10^4 | 8.8×10^4 |
| STRAIN | | % OF TOTAL CFUs | | | | |
| Unknown Ps #6* | | - | - | - | 100 | 99.0 |
| Coryneform D | | - | - | - | 0 | 1.0 |
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- Plates desiccated before analysis was attempted
 + Lost in culture
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TABLE 2 CONT.'D

| | | With SLCO | | | | | |
|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| | | TIME (DAYS) | | | | | |
| Cruise 5 | DATE | 7/9 | 7/22 | 8/10 | 9/2 | 9/16 | |
| Transect II | | 0 | 1 | 32 | 55 | 69 | |
| Station 3 | CFUs per ml | 6.7×10^1 | 1.9×10^5 | 4.4×10^5 | 1.7×10^5 | 1.2×10^5 | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #6* | - | - | 7.1 | 1.9 | 20.0 | | |
| Unknown Ps #7(y)* | - | - | 78.6 | 0 | 0 | | |
| Pseudomonas #5 | - | - | 11.9 | 17.3 | 0 | | |
| Unknown Ps #5(y)* | - | - | 0 | 36.6 | 0 | | |
| Unknown Ps #5(p)* | - | - | 0 | 36.6 | 0 | | |
| Pseudomonas #1 | - | - | 2.4 | 1.9 | 2.5 | | |
| Flavobacterium II | - | - | 0 | 1.9 | 0 | | |
| Acinetobacter | - | - | 0 | 3.8 | 0 | | |
| Unknown 1-5 | - | - | 0 | 0 | 75.0 | | |
| Unknown 6-5 | - | - | 0 | 0 | 2.5 | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT. 'D

| Cruise 6 Transect II Station 1 | DATE | Without SLCO | | | | | TIME (DAYS) | |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| | | 8/6 | 8/13 | 9/2 | 9/16 | 10/6 | 10/26 | |
| | | 0 | 7 | 27 | 41 | 61 | 81 | |
| | CFUs per ml | 1.8×10^2 | 2.1×10^5 | 3.2×10^5 | 4.1×10^4 | 4.2×10^4 | 2.8×10^4 | |
| STRAIN | % OF TOTAL CFUs | | | | | | | |
| Unknown Ps #5 _(y) * | 66.2 | 64.0 | 0 | 0 | 0 | 0 | | |
| Pseudomonas #5 | 0 | 0 | 31.1 | 0 | 0 | 1.8 | | |
| Unknown Ps #7 _(y) * | 2.7 | 0 | 0 | 0 | 0 | 67.3 | | |
| Unknown Ps #6* | 0 | 16.0 | 31.1 | 80.7 | 0 | 0 | | |
| Coryneform C | 1.4 | 0 | 3.3 | 0 | 0 | 0 | | |
| Unknown 1-6 | 1.4 | 0 | 0 | 0 | 0 | 0 | | |
| Unknown 2-6 | 1.4 | 0 | 0 | 0 | 0 | 0 | | |
| Unknown 3-6 | 1.4 | 0 | 0 | 0 | 0 | 0 | | |
| Unknown 4-6 | 0 | 0 | 0 | 3.5 | 0 | 0 | | |
| Vibrio* | 25.5 | 0 | 0 | 0 | 0 | 0 | | |
| Pseudomonas #1 | 0 | 16.0 | 0 | 0 | 55.6 | 0 | | |
| Unknown 8-6 | 0 | 4.0 | 0 | 0 | 0 | 0 | | |
| Pseudomonas #4 | 0 | 0 | 0 | 15.8 | 0 | 0 | | |
| Unknown Ps #8 _(a) * | 0 | 0 | 0 | 0 | 11.1 | 0 | | |
| Pseudomonas #3 | 0 | 0 | 0 | 0 | 33.3 | 0 | | |
| Coryneform B | 0 | 0 | 5.6 | 0 | 0 | 0 | | |
| Acinetobacter | 0 | 0 | 28.9 | 0 | 0 | 0 | | |
| Pseudomonas #2 | 0 | 0 | 0 | 0 | 0 | 1.8 | | |
| Flavobacterium I | 0 | 0 | 0 | 0 | 0 | 9.1 | | |
| Unknown 13-6 | 0 | 0 | 0 | 0 | 0 | 20.0 ⁺ | | |

- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT. 'D

| Cruise 6 | DATE | Without SLCO | | TIME (DAYS) | | | |
|--------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 8/6 | 8/13 | 9/2 | 9/16 | 10/6 | 10/26 |
| Transect II | | 0 | 7 | 27 | 41 | 61 | 81 |
| Station 2 | CFUs per ml | 4.1×10^1 | 9.6×10^4 | 1.6×10^5 | 1.4×10^5 | 1.6×10^5 | 1.9×10^5 |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Actinomycetes | 29.2 | - | 0 | 0 | 0 | 0 | |
| Unknown Ps #6* | 8.3 | - | 70.5 | 68.0 | 41.7 | 0 | |
| Unknown Ps #7 _(y) * | 8.3 | - | 2.6 | 0 | 11.1 | 23.7 | |
| Unknown 2-6 | 4.2 | - | 0 | 0 | 0 | 0 | |
| Vibrio* | 29.1 | - | 0 | 0 | 0 | 0 | |
| Unknown 6-6 | 8.4 | - | 0 | 0 | 0 | 0 | |
| Unknown 8-6 | 4.2 | - | 0 | 0 | 0 | 0 | |
| Unknown 14-6 | 8.3 | - | 0 | 0 | 0 | 0 | |
| Acinetobacter | 0 | - | 26.9 | 0 | 0 | 0 | |
| Pseudomonas #1 | 0 | - | 0 | 32.0 | 0 | 1.4 | |
| Unknown 13-6 | 0 | - | 0 | 0 | 32.4 | 0 | |
| Bacillus | 0 | - | 0 | 0 | 8.5 | 0 | |
| Unknown Ps #5 _(y) * | 0 | - | 0 | 0 | 2.8 | 0 | |
| Coryneform B | 0 | - | 0 | 0 | 0.7 | 49.3 | |
| Unknown 15-6 | 0 | - | 0 | 0 | 0 | 23.9 | |
| Coryneform D | 0 | - | 0 | 0 | 0.7 | 0 | |
| Coryneform E | 0 | - | 0 | 0 | 0.7 | 0 | |
| Unknown Ps #7 _(t) * | 0 | - | 0 | 0 | 1.4 | 2.7 | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 6 Transect II Station 3 | DATE | Without SLCO | | | | | |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | TIME (DAYS) | | | | | |
| CFUs per ml | | 8/6 | 8/13 | 9/2 | 9/16 | 10/2 | 10/26 |
| | | 0 | 7 | 27 | 41 | 61 | 81 |
| | | 4.6×10^1 | 1.7×10^5 | 8.1×10^4 | 4.7×10^4 | 1.5×10^4 | 1.3×10^4 |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #6* | - | 56.5 | 80.0 | 0 | 75.0 | 91.7 | |
| Unknown Ps #7(y)* | - | 0 | 0 | 100.0 | 0 | 0 | |
| Vibrio* | - | 39.1 ⁺ | 0 | 0 | 0 | 0 | |
| Pseudomonas #5 | - | 0 | 0 | 0 | 25.0 | 0 | |
| Unknown Ps #5(y)* | - | 0 | 0 | 0 | 0 | 8.3 | |
| Pseudomonas #1 | - | 4.4 | 20.0 | 0 | 0 | 0 | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

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TABLE 2 CONT.'D

| Cruise 6 Transect II Station 1 | DATE | With SLCO | | TIME (DAYS) | | | |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 8/6 | 8/13 | 9/2 | 9/16 | 10/6 | 10/26 |
| | | 0 | 7 | 27 | 41 | 61 | 81 |
| | CFUs per ml | 1.8×10^2 | 4.7×10^4 | 7.7×10^4 | 9.2×10^4 | 7.9×10^4 | 8.7×10^4 |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Pseudomonas #5 | 66.2 | - | 6.1 | 26.5 | 0 | 0 | |
| Unknown Ps #5 [*] (y) | 0 | - | 0 | 10.2 | 0 | 0 | |
| Unknown Ps #6 | 2.7 | - | 6.1 | 16.3 | 18.6 | 22.2 | |
| Unknown Ps #7 [*] (y) | 0 | - | 54.5 | 0 | 77.1 | 77.8 | |
| Unknown Ps #7 [*] (br) | 0 | - | 0 | 5.1 | 0 | 0 | |
| Coryneform C | 1.4 | - | 0 | 0 | 0 | 0 | |
| Pseudomonas #1 | 1.4 | - | 27.3 | 1.0 | 0 | 0 | |
| Unknown 2-6 | 1.4 | - | 0 | 0 | 0 | 0 | |
| Unknown 3-6 | 1.4 | - | 0 | 0 | 0 | 0 | |
| Vibrio [*] | 25.5 | - | 0 | 0 | 0 | 0 | |
| Flavobacterium II | 0 | - | 0 | 40.9 | 0 | 0 | |
| Coryneform A | 0 | - | 0 | 0 | 0.7 | 0 | |
| Coryneform D | 0 | - | 0 | 0 | 2.7 | 0 | |
| Pseudomonas #4 | 0 | - | 0 | 0 | 1.8 | 0 | |
| Coryneform B | 0 | - | 6.1 | 0 | 0 | 0 | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

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TABLE 2 CONT.'D

| Cruise 6 Transect II Station 2 | DATE | WITH SLCO | | TIME (DAYS) | | | |
|--------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | 8/6 | 8/13 | 9/2 | 9/16 | 10/2 | 10/26 |
| | CFUs per ml | 4.1×10 ¹ | 1.5×10 ⁵ | 1.5×10 ⁵ | 2.7×10 ⁵ | 5.4×10 ⁵ | 2.2×10 ⁵ |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Actinomycetes | 29.2 | 0 | 0 | 0 | 0 | 0 | |
| Unknown Ps #6* | 16.6 | 0 | 0 | 0 | 22.9 | 62.5 | |
| Unknown Ps #7(y)* | 0 | 0 | 4.8 | 0 | 57.7 | 37.5 | |
| Unknown 2-6 | 4.2 | 0 | 0 | 0 | 0 | 0 | |
| Unknown 4-6 | 8.3 | 0 | 0 | 0 | 0 | 0 | |
| Unknown 5-6 | 20.8 | 0 | 0 | 0 | 0 | 0 | |
| Unknown Ps #7(br)* | 8.4 | 6.8 | 0 | 0 | 0 | 0 | |
| Unknown 8-6 | 4.2 | 0 | 0 | 0 | 0 | 0 | |
| Unknown 14-6 | 8.3 | 0 | 0 | 0 | 0 | 0 | |
| Unknown Ps #8(a)* | 0 | 56.6 | 76.2 | 56.1 | 19.1 | 0 | |
| Pseudomonas #5 | 0 | 36.6 | 19.0 | 43.9 | 0 | 0 | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| | | With SLCO | | TIME (DAYS) | | | |
|--------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Cruise 6 | DATE | 8/6 | 8/13 | 9/2 | 9/16 | 10/2 | 10/26 |
| Transect II | | 0 | 7 | 27 | 41 | 61 | 81 |
| Station 3 | CFUs per ml | 4.6×10^1 | 1.1×10^5 | 3.4×10^4 | 2.5×10^4 | 2.2×10^4 | 2.6×10^5 |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Pseudomonas #3 | - | - | 27.8 | 90.0 | 0 | 0 | |
| Coryneform B | - | - | 44.4 | 5.0 | 0 | 0 | |
| Unknown Ps #6* | - | - | 0 | 0 | 3.0 | 50.0 | |
| Unknown Ps #7 _(o) * | - | - | 0 | 0 | 84.8 | 0 | |
| Unknown Ps #7 _(t) * | - | - | 0 | 0 | 9.2 | 0 | |
| Vibrio* | - | - | 27.8 ⁺ | 0 | 0 | 0 | |
| Unknown Ps #7 _(y) * | - | - | 0 | 0 | 0 | 50.0 | |
| Unknown 12-6 | - | - | 0 | 5.0 ⁺ | 0 | 0 | |
| Unknown 13-6 | - | - | 0 | 0 | 3.0 ⁺ | 0 | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 7 Transect II Station 1 | Without SLCO DATE | TIME (DAYS) | | | | | |
|--------------------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|--|--|
| | | 10/21 | 11/10 | 12/5 | 2/1 | | |
| | CFUs per ml | 1.2×10 ⁴ | 5.4×10 ⁴ | 6.8×10 ⁴ | 7.4×10 ⁵ | | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #6* | | 23.0 | 50.3 | 0 | 46.3 | | |
| Unknown Ps #7 _(y) * | | 61.6 | 5.4 | 6.3 | 0 | | |
| Unknown Ps #7 _(b) * | | 11.5 | 0 | 0 | 0 | | |
| Pseudomonas #3 | | 3.9 | 0 | 0 | 0 | | |
| Unknown Ps #7 _(t) * | | 0 | 4.1 | 18.7 | 1.5 | | |
| Pseudomonas #5 | | 0 | 3.2 | 0 | 0 | | |
| Coryneform D | | 0 | 4.2 | 0 | 0 | | |
| Unknown 6-7 | | 0 | 6.4 | 0 | 0 | | |
| Unknown 7-7 | | 0 | 26.4 | 0 | 38.8 ⁺ | | |
| Unknown Ps #7 _(o) * | | 0 | 0 | 6.3 | 0 | | |
| Unknown 8-7 | | 0 | 0 | 62.4 | 0 | | |
| Unknown 9-7 | | 0 | 0 | 6.3 | 0 | | |
| Unknown 10-7 | | 0 | 0 | 0 | 13.4 ⁺ | | |
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- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT. 'D

| Cruise 7 | DATE | Qithout SLCO | | TIME (DAYS) | | | |
|----------------------|-----------------|-------------------|-------------------|-------------------|-------------------|--|--|
| | | 10/21 | 11/10 | 12/5 | 2/1 | | |
| Transect II | | 0 | 20 | 45 | 100 | | |
| Station 2 | CFUs per ml | 7.3×10^1 | 7.1×10^4 | 6.7×10^4 | 2.9×10^4 | | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Actinomycetes | | 12.5 | 0 | 0 | - | | |
| Pseudomonas #2 (v-g) | | 6.2 | 0 | 0 | - | | |
| Vibrio* | | 12.5 | 0 | 0 | - | | |
| Unknown 12-7 | | 12.5 ⁺ | 0 | 0 | - | | |
| Unknown Ps #7 (y)* | | 37.5 | 1.6 | 0 | - | | |
| Unknown 3-7 | | 18.8 | 0 | 0 | - | | |
| Pseudomonas #5 | | 0 | 8.2 | 0 | - | | |
| Unknown 7-7 | | 0 | 70.9 ⁺ | 0 | - | | |
| Unknown 14-7 | | 0 | 12.9 | 0 | - | | |
| Unknown 8-7 | | 0 | 0 | 72.3 | - | | |
| Unknown Ps #6* | | 0 | 6.4 | 27.7 | - | | |
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- Plates desicated before analysis was attempted

+ Lost in culture

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TABLE 2 CONT.'D

| Cruise 7 Transect II Station 3 | DATE | Without SLCO | | | | TIME (DAYS) | |
|--------------------------------------|-----------------|-------------------|-------------------|---------------------|-------------------|-------------|--|
| | | 10/21 | 11/10 | 12/5 | 2/1 | | |
| | | 0 | 20 | 45 | 100 | | |
| | CFUs per ml | 1.5×10^1 | 2.7×10^4 | 1.6×10^4 | 2.7×10^5 | | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Pseudomonas #3 | | 11.1 | 0 | 0 | - | | |
| Unknown Ps #7 _(y) * | | 11.1 | 0 | 11.3 ⁽⁺⁾ | | | |
| Unknown 16-7 | | 66.7 | 0 | 0 | - | | |
| Unknown 15-7 | | 11.1 ⁺ | 8.3 ⁺ | 0 | - | | |
| Unknown Ps #6* | | 0 | 37.5 | 5.3 | - | | |
| Unknown Ps #5 _(y) * | | 0 | 41.7 | 0 | - | | |
| Unknown 17-7 | | 0 | 12.5 | 0 | - | | |
| Unknown 10-7 | | 0 | 0 | 80.4 | - | | |
| Unknown Ps #7 _(o) * | | 0 | 0 | 3.0 | - | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT. 'D

| | | With SLCO | | TIME (DAYS) | | | |
|--------------------------------|----------------|---------------------|---------------------|---------------------|---------------------|--|--|
| Cruise 7 | DATE | 10/21 | 11/10 | 12/5 | 2/1 | | |
| Transect II | | 0 | 20 | 45 | 100 | | |
| Station 1 | CFUs per ml | 1.2×10 ² | 1.2×10 ⁵ | 1.3×10 ⁵ | 4.2×10 ⁵ | | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Unknown Ps #6* | | 23.0 | 66.7 | 42.5 | 7.4 | | |
| Unknown Ps #7 _(y) * | | 61.6 | 22.2 | 55.0 | 0 | | |
| Unknown Ps #7 _(b) * | | 11.5 | 0 | 0 | 0 | | |
| Pseudomonas #3 | | 3.9 | 11.1 | 0 | 85.2 | | |
| Unknown Ps #7 _(o) * | | 0 | 0 | 2.5 | 7.4 | | |
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- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT. 'D

| Cruise 7 Transect II Station 2 | DATE | With SLCO | | TIME (DAYS) | | CFUs per ml | STRAIN | % OF TOTAL CFUs | | | | | | | | | | | |
|--------------------------------------|------|---------------------|---------------------|---------------------|---------------------|----------------|---------------------------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| | | 10/21 | 11/10 | 12/5 | 2/1 | | | | | | | | | | | | | | |
| | | 0 | 20 | 45 | 100 | | | | | | | | | | | | | | |
| | | 7.3×10 ¹ | 9.6×10 ⁴ | 1.2×10 ⁵ | 6.8×10 ⁵ | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | 12.5 | 0 | 0 | 0 | | Actinomycetes | | | | | | | | | | | | |
| | | 6.2 | 0 | 0 | 0 | | Pseudomonas #2 _(v-g) | | | | | | | | | | | | |
| | | 12.5 | 0 | 0 | 0 | | Vibrio* | | | | | | | | | | | | |
| | | 12.5 ⁺ | 0 | 0 | 0 | | Unknown 12-7 | | | | | | | | | | | | |
| | | 37.5 | 12.5 | 0 | 0 | | Unknown Ps #7 _(y) * | | | | | | | | | | | | |
| | | 18.8 | 0 | 0 | 0 | | Unknown 3-7 | | | | | | | | | | | | |
| | | 0 | 50.0 | 0 | 85.3 | | Unknown Ps #6* | | | | | | | | | | | | |
| | | 0 | 25.0 | 7.2 | 1.7 | | Unknown Ps #5 _(b) * | | | | | | | | | | | | |
| | | 0 | 12.5 | 42.9 | 0 | | Unknown Ps #7 _(t) | | | | | | | | | | | | |
| | | 0 | 0 | 50.0 | 0 | | Unknown Ps #5 _(t) | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 11.3 | | Unknown 7-7 | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 1.7 | | Pseudomonas #5 | | | | | | | | | | | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT. 'D

| Cruise 7 Transect II Station 3 | DATE | WithSLCO | | | | TIME (DAYS) | |
|--------------------------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------|--|
| | | 10/21 | 11/10 | 12/5 | 2/1 | | |
| | | 0 | 20 | 45 | 100 | | |
| | CFUs per ml | 1.5×10^1 | 5.9×10^4 | 4.2×10^4 | 7.2×10^4 | | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Pseudomonas #3 | | 11.1 | 0 | 25.0 | 0 | | |
| Unknown Ps #7 _(y) * | | 11.1 | 60.0 | 0 | 0 | | |
| Unknown 16-7 | | 66.7 | 0 | 0 | 0 | | |
| Unknown 15-7 | | 11.1 ⁺ | 0 | 0 | 0 | | |
| Unknown 17-7 | | 0 | 6.7 | 0 | 0 | | |
| Unknown Ps #5 _(y) * | | 0 | 33.3 | 0 | 0 | | |
| Unknown Ps #7 _(t) * | | 0 | 0 | 50.0 | 0 | | |
| Unknown Ps #6* | | 0 | 0 | 12.5 | 0 | | |
| Pseudomonas #5 | | 0 | 0 | 12.5 | 100.0 | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 8 | DATE | Without SLCO | | | | | TIME (DAYS) |
|-------------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------|
| | | 11/20 | 12/7 | 1/3 | 2/9 | 4/19 | |
| Transect II | | 0 | 17 | 44 | 84 | 122 | |
| Station 1 | CFUs per ml. | 4.0×10^1 | 7.2×10^4 | 6.8×10^4 | 3.7×10^4 | 4.8×10^4 | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Unknown Ps #6* | | 58.8 | 76.9 | - | 55.0 | - | |
| Unknown Ps #7(y)* | | 35.3 | 3.1 | - | 45.0 | - | |
| Unknown 2-8 | | 5.9 | 0 | - | 0 | - | |
| Unknown 1-8 | | 0 | 20.0 | - | 0 | - | |
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- Plates desiccated before analysis was attempted
- + Lost in culture
- * in progress

TABLE 2 CONT.'D

| Cruise 8 Transect II Station 2 | Without SLCO | | TIME (DAYS) | | | | |
|--------------------------------------|-----------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | DATE | | 11/20 | 12/7 | 1/3 | 2/9 | 4/19 |
| | CFUs per ml | | 3.0×10^1 | 1.2×10^4 | 3.3×10^3 | 6.5×10^3 | 2.0×10^4 |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #6* | 46.2 | 38.5 | - | 0 | - | | |
| Unknown Ps #7(y)* | 23.1 | 53.8 | - | 83.3 | - | | |
| Unknown 9-8 | 23.0 | 0 | - | 0 | - | | |
| Unknown 10-8 | 7.7 | 0 | - | 0 | - | | |
| Unknown 14-8 | 0 | 38.5 | - | 0 | - | | |
| Unknown 7-8 | 0 | 7.7 | - | 0 | - | | |
| Pseudomonas #4 | 0 | 0 | - | 16.7 | - | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 8 Transect II Station 3 | DATE | Without SLCO | | | | | TIME (DAYS) |
|--------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------|
| | | 11/20 | 12/7 | 1/3 | 2/9 | 4/19 | |
| | | 0 | 17 | 44 | 84 | 122 | |
| | CFUs per ml | 1.9×10^1 | 2.9×10^5 | 1.7×10^5 | 2.1×10^5 | 3.8×10^4 | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #6* | 99.9 | 91.6 | - | 11.2 | - | | |
| Vibrio* | 1.0 | 0 | - | - | - | | |
| Unknown Ps #7(R)* | 0 | 4.2 | - | 15.4 | - | | |
| Unknown Ps #7(b)* | 0 | 4.2 | - | 0 | - | | |
| Unknown Ps #7(y)* | 0 | 0 | - | 7.7 | - | | |
| Unknown 4-8 | 0 | 0 | - | 65.4 | - | | |
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- Plates desiccated before analysis was attempted
- + Lost in culture
- * in progress

TABLE 2 CONT.'D

| Cruise 8 Transect II Station 1 STRAIN | DATE | With SLCO | | | | | TIME (DAYS) | |
|--|------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------|--|
| | | 11/20 | 12/7 | 1/3 | 2/9 | 4/19 | | |
| | | CFUs per ml | | | | | | |
| | | 4.0×10 ¹ | 7.6×10 ⁵ | 4.3×10 ⁵ | 9.2×10 ⁵ | 2.8×10 ⁵ | | |
| | | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #6* | | 58.8 | 95.3 | 47.0 | 30.9 | - | | |
| Unknown Ps #7 _(y) * | | 35.3 | 0 | 3.0 | 15.0 | - | | |
| Unknown 2-8 | | 5.9 | 0 | 0 | 0 | - | | |
| Unknown 5-8 | | 0 | 0 | 0 | 45.6 ⁺ | - | | |
| Unknown Ps #7 _(o) * | | 0 | 0 | 3.0 | 0 | - | | |
| Unknown Ps #7 _(t) * | | 0 | 4.7 | 45.0 | 8.5 | - | | |
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- Plates desicated before analysis was attempted
 + Lost in culture
 * in progress

TABLE 2 CONT. 'D

| Cruise 8 Transect II Station 2 | DATE | With SLCO | | | | | TIME (DAYS) | |
|--------------------------------------|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------|--|
| | | 11/20 | 12/7 | 1/3 | 2/9 | 4/19 | | |
| | CFUs per ml | 3.0×10 ¹ | 4.3×10 ⁴ | 1.4×10 ⁴ | 1.2×10 ⁴ | 4.4×10 ⁴ | | |
| STRAIN | | % OF TOTAL CFUs | | | | | | |
| Unknown Ps #6* | | 46.2 | 11.1 | 14.0 | 0 | - | | |
| Unknown Ps #7(y)* | | 23.1 | 0 | 0 | 0 | - | | |
| Unknown 9-8 | | 23.0 | 0 | 0 | 0 | - | | |
| Unknown 10-8 | | 7.7 | 0 | 0 | 0 | - | | |
| Vibrio* | | 0 | 77.8 | 0 | 0 | - | | |
| Vibrio* | | 0 | 11.1 | 14.0 | 0 | - | | |
| Unknown 7-8 | | 0 | 0 | 58.0 | 0 | - | | |
| Unknown Ps #5(y)* | | 0 | 0 | 0 | 62.5 | - | | |
| Unknown 6-8 | | 0 | 0 | 0 | 25.0 | - | | |
| Unknown 13-8 | | 0 | 0 | 0 | 12.5 | - | | |
| Unknown Ps #7(t)* | | 0 | 0 | 14.0 | 0 | - | | |
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- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 8 Transect II Station 3 | DATE | With SLCO | | | | | CFUs per ml |
|--------------------------------------|------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------|
| | | TIME (DAYS) | | | | | |
| | | 11/20 | 12/7 | 1/3 | 2/9 | 4/19 | |
| | | 0 | 17 | 44 | 84 | 122 | |
| | | 1.9×10 ¹ | 5.9×10 ⁵ | 2.5×10 ⁵ | 3.4×10 ⁵ | 3.4×10 ⁵ | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Unknown Ps #6* | | 75.0 | 57.6 | 13.0 | 98.3 | - | |
| Vibrio* | | 25.0 | 42.4 | 36.0 | 0 | - | |
| Pseudomonas #5 | | 0 | 0 | 40.0 | 0 | - | |
| Unknown Ps #7(y)* | | 0 | 0 | 7.0 | 0 | - | |
| Unknown 16-8 | | 0 | 0 | 4.0 | 0 | - | |
| Unknown Ps #7(o)* | | 0 | 0 | 0 | 1.7 | - | |
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- Plates desicated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT. 'D

| Cruise 9 | DATE | Without SICO | | | | TIME (DAYS) | |
|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------|--|
| | | 12/16 | 1/3 | 2/20 | 4/19 | | |
| Transect II | | 0 | 18 | 66 | 124 | | |
| Station 2 | CFUs per ml | 5.9×10^1 | 1.6×10^5 | 7.1×10^4 | 6.6×10^5 | | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Acinetobacter | | 5.5 | 0 | 4.5 | - | | |
| Pseudomonas #3 | | 44.0 | 0 | 0 | - | | |
| Unknown Ps #6* | | 50.5 | 22.8 | 6.0 | - | | |
| Unknown Ps #7(y)* | | 0 | 7.9 | 1.5 | - | | |
| Pseudomonas #2 | | 0 | 3.8 | 0 | - | | |
| Unknown 7-9 | | 0 | 1.9 ⁺ | 0 | - | | |
| Unknown 10-9 | | 0 | 63.9 ⁺ | 0 | - | | |
| Unknown 11-9 | | 0 | 3.8 ⁺ | 0 | - | | |
| Pseudomonas #5 | | 0 | 0 | 1.5 | - | | |
| Flavobacterium II | | 0 | 0 | 86.5 | - | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 9 Transect II Station 3 | DATE | Without SLCO | | TIME (DAYS) | | | |
|--------------------------------------|----------------|-------------------|-------------------|-------------------|-------------------|--|--|
| | | 12/16 | 1/3 | 2/20 | 4/19 | | |
| | | 0 | 18 | 66 | 124 | | |
| | CFUs per ml | 1.4×10^1 | 1.4×10^4 | 1.8×10^4 | 1.0×10^4 | | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Pseudomonas #3 | | 50.0 | 0 | 0 | - | | |
| Unknown Ps #7(y)* | | 50.0 | 0 | 0 | - | | |
| Vibrio* | | 0 | 45.6 | 0 | - | | |
| Unknown Ps #6* | | 0 | 54.4 | 100.0 | - | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 9 Transect II Station 1 | DATE | Without SLCO | | | | TIME (DAYS) | |
|--------------------------------------|----------------|---------------------|---------------------|---------------------|---------------------|-------------|--|
| | | 12/16 | 1/3 | 2/20 | 4/19 | | |
| | CFUs per ml | 1.6×10 ² | 3.2×10 ⁵ | 1.7×10 ⁵ | 1.4×10 ⁵ | | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Pseudomonas #3 | | 22.6 | - | 0 | - | | |
| Flavobacterium I | | 25.8 | - | 0 | - | | |
| Vibrio* | | 35.5 | - | 0 | - | | |
| Vibrio* | | 3.2 | - | 0 | - | | |
| Unknown 3-9 | | 12.9 | - | 0 | - | | |
| Unknown Ps #7(y)* | | 0 | - | 21.5 | - | | |
| Unknown Ps #7(o)* | | 0 | - | 7.0 | - | | |
| Unknown Ps #6 | | 0 | - | 42.9 | - | | |
| Unknown 7-9 | | 0 | - | 14.3 ⁺ | - | | |
| Unknown 8-9(b)* | | 0 | - | 14.3 ⁺ | - | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 9 Transect II Station 1 | DATE | With SLCO | | TIME (DAYS) | | | |
|--------------------------------------|----------------|-------------------|-------------------|-------------------|-------------------|--|--|
| | | 12/16 | 1/3 | 2/20 | 4/19 | | |
| | | 0 | 18 | 66 | 124 | | |
| | CFUs per ml | 1.6×10^2 | 2.3×10^5 | 1.8×10^5 | 3.5×10^5 | | |
| STRAIN | | % OF TOTAL CFUs | | | | | |
| Pseudomonas #3 | | 22.6 | - | 0 | - | | |
| Flavobacterium I | | 25.8 | - | 0 | - | | |
| Vibrio* | | 35.5 | - | 0 | - | | |
| Vibrio* | | 3.2 | - | 0 | - | | |
| Unknown 12-9 | | 12.9 | - | 0 | - | | |
| Pseudomonas #1 | | 0 | - | 4.3 | - | | |
| Unknown Ps #5* | | 0 | - | 4.3 | - | | |
| Unknown Ps #6* | | 0 | - | 6.5 | - | | |
| Unknown Ps #7(y)* | | 0 | - | 26.1 | - | | |
| Flavobacterium II | | 0 | - | 4.3 | - | | |
| Unknown 7-9 | | 0 | - | 10.9 ⁺ | - | | |
| Unknown 10-9 | | 0 | - | 43.6 ⁺ | - | | |
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- Plates desiccated before analysis was attempted

+ Lost in culture

* in progress

TABLE 2 CONT.'D

| Cruise 9 Transect II Station 2 | DATE | TIME (DAYS) | | | | | |
|--------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|--|--|
| | | 12/16 | 1/3 | 2/20 | 4/19 | | |
| | CFUs per ml | 1.4×10 ¹ | 2.3×10 ⁵ | 8.8×10 ⁴ | 1.5×10 ⁵ | | |
| STRAIN | % OF TOTAL CFUs | | | | | | |
| Acinetobacter | | 5.5 | 0 | 0 | - | | |
| Pseudomonas #3 | | 44.0 | 0 | 0 | - | | |
| Unknown Ps #6* | | 50.5 | 77.8 | 0 | - | | |
| Unknown 6-9 | | 0 | 0 | 100.0 ⁺ | - | | |
| Unknown 11-9 | | 0 | 22.2 | 0 | - | | |
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- Plates desicated before analysis was attempted
+ Lost in culture
* in progress

TABLE 2 CONT.'D

| Cruise 9 Transect II Station 3 | DATE | With SLCO TIME (DAYS) | | | | | |
|--------------------------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|--|--|
| | | 12/16 | 1/3 | 2/20 | 4/19 | | |
| CFUs per ml | | 0 | 18 | 66 | 124 | | |
| STRAIN | | 1.4×10^1 | 6.1×10^4 | 6.8×10^3 | 6.1×10^3 | | |
| | % OF TOTAL CFUs | | | | | | |
| Pseudomonas #3 | 50.0 | - | 0 | - | | | |
| Unknown Ps #6* | 50.0 | - | 100.0 | - | | | |
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- Plates desicated before analysis was attempted
 + Lost in culture
 * in progress

TABLE 3

OIL DEGRADATION SUMMARIES PER CRUISE FOR 1977
SATURATED VS. AROMATIC HYDROCARBON DISTRIBUTION

Explanation of Table:

- 3a - Cruise 1 - Winter
A. Saturated
B. Aromatic
- 3b - Cruise 2 - March
A. Saturated
B. Aromatic
- 3c - Cruise 3 - April
A. Saturated
B. Aromatic
- 3d - Cruise 4 - Spring
A. Saturated
B. Aromatic
- 3e - Cruise 5 - July
A. Saturated
B. Aromatic
- 3f - Cruise 6 - August
A. Saturated
B. Aromatic
- 3g - Cruise 7 - Fall
A. Saturated
B. Aromatic
- 3h - Cruise 8 - November
A. Saturated
B. Aromatic
- 3i - Cruise 9 - December
A. Saturated
B. Aromatic
- 3j - First Nutrient Experiment
A. Saturated
B. Aromatic
- 3k - Second Nutrient Experiment
A. Saturated
B. Aromatic
- 3l - Extraction Experiment Summary
A. Saturated
B. Aromatic

Sample Number:

- First Digit - Cruise No.
Second Digit - Station
Third Digit - Replicate No.
Remaining Digits - Date

Example: 111217
Cruise 1 (winter)
Station 1
Replicate 1
February 17

TABLE 3-a

Summary for Cruise 1 succession:A. SATURATED HYDROCARBON DISTRIBUTION FOR ALL SAMPLES

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|--|
| 1 | *111217 | 1, 0 |
| 2 | 112217 | 1, 0 |
| 3 | 111328 | 1, 39 |
| 4 | 112328 | 1, 39 |
| 5 | 121328 | 1, 39 |
| 6 | 122328 | 1, 39 |
| 7 | 131328 | 1, 39 |
| 8 | 132328 | 1, 39 |
| 9 | 111415 | 1, 57 |
| 10 | 112415 | 1, 57 |
| 11 | 121415 | 1, 57 |
| 12 | 122415 | 1, 57 |
| 13 | 131415 | 1, 56 |
| 14 | 132415 | 1, 57 |
| 15 | 111507 | 1, 79 |
| 16 | 112507 | 1, 79 |
| 17 | 121507 | 1, 79 |
| 18 | 122507 | 1, 79 |
| 19 | 131507 | 1, 79 |
| 20 | 132507 | 1, 79 |
| 21 | 113507 | 1, Sterile Weathering Control (79-day) |
| 22 | 114507 | 1, Sterile Weathering Control (79-day) |

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 3.7 | |
| 1150 | 0.0 | |
| 1200 | 0.0 | |
| 1253 | 3.4 | |
| 1300 | 9.5 | |
| 1356 | 7.1 | |
| 1400 | 11.4 | |
| 1440 | 9.4 | |
| 1500 | 10.0 | |
| 1551 | 3.3 | |
| 1600 | 6.5 | 15.4 |
| 1670 | 4.4 | 10.5 |
| 1700 | 6.0 | 14.2 |
| 1780 | 1.3 | 3.0 |
| 1800 | 4.0 | 9.5 |
| 1851 | 2.0 | 4.6 |
| 1900 | 3.6 | 8.5 |
| 2000 | 2.7 | 6.4 |
| 2100 | 2.2 | 5.1 |
| 2200 | 1.9 | 4.6 |
| 2300 | 1.5 | 3.6 |
| 2400 | 1.1 | 2.5 |
| 2500 | .9 | 2.2 |
| 2600 | .9 | 2.1 |
| 2700 | .7 | 1.8 |
| 2800 | 1.0 | 2.3 |
| 2900 | .7 | 1.6 |
| 3000 | .4 | 1.0 |
| 3100 | .5 | 1.1 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.504 | |
| PR/1700 | .739 | |
| PH/1800 | .317 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.052 |

TABLE 3-a CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE 112217-1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 3.3 | |
| 1150 | 0.0 | |
| 1200 | 5.7 | |
| 1253 | 3.2 | |
| 1300 | 9.2 | |
| 1356 | 6.6 | |
| 1400 | 10.4 | |
| 1440 | 8.7 | |
| 1500 | 9.1 | |
| 1551 | 3.1 | |
| 1600 | 6.2 | 15.2 |
| 1670 | 4.3 | 10.6 |
| 1700 | 5.9 | 14.4 |
| 1780 | 1.2 | 3.0 |
| 1800 | 4.0 | 9.8 |
| 1851 | 1.9 | 4.6 |
| 1900 | 3.5 | 8.6 |
| 2000 | 2.6 | 6.4 |
| 2100 | 2.6 | 5.0 |
| 2200 | 1.8 | 4.4 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.0 | 2.4 |
| 2500 | .9 | 2.2 |
| 2600 | 1.0 | 2.5 |
| 2700 | .7 | 1.7 |
| 2800 | .9 | 2.3 |
| 2900 | .5 | 1.3 |
| 3000 | .4 | .9 |
| 3100 | .5 | 1.3 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.568 | |
| PR/1700 | .732 | |
| PH/1800 | .302 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.054 |

TABLE 3-a CONT. 'D

G-76

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 2.1 | |
| 1150 | 0.0 | |
| 1200 | 4.3 | |
| 1253 | 3.7 | |
| 1300 | 9.0 | |
| 1356 | 6.8 | |
| 1400 | 10.9 | |
| 1440 | 9.1 | |
| 1500 | 9.7 | |
| 1551 | 3.2 | |
| 1600 | 6.1 | 14.9 |
| 1670 | 4.5 | 10.9 |
| 1700 | 6.0 | 14.5 |
| 1780 | 1.3 | 3.2 |
| 1800 | 4.0 | 9.8 |
| 1851 | 1.8 | 4.5 |
| 1900 | 3.5 | 8.4 |
| 2000 | 2.6 | 6.3 |
| 2100 | 2.0 | 4.9 |
| 2200 | 1.8 | 4.4 |
| 2300 | 1.4 | 3.5 |
| 2400 | 1.0 | 2.4 |
| 2500 | .9 | 2.2 |
| 2600 | 1.0 | 2.5 |
| 2700 | .7 | 1.8 |
| 2800 | 1.0 | 2.3 |
| 2900 | .5 | 1.3 |
| 3000 | .4 | 1.0 |
| 3100 | .5 | 1.2 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.438 | |
| PR/1700 | .753 | |
| PH/1800 | .324 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.779 |

TABLE 3-a CONT. 'D

G-77

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 0.0 | |
| 1200 | 6.4 | |
| 1253 | 3.9 | |
| 1300 | 9.0 | |
| 1356 | 6.4 | |
| 1400 | 10.1 | |
| 1440 | 8.7 | |
| 1500 | 9.4 | |
| 1551 | 3.2 | |
| 1600 | 6.2 | 14.6 |
| 1670 | 4.7 | 11.0 |
| 1700 | 6.2 | 14.6 |
| 1780 | 1.4 | 3.3 |
| 1800 | 4.3 | 10.1 |
| 1851 | 2.0 | 4.6 |
| 1900 | 3.7 | 8.7 |
| 2000 | 2.7 | 6.4 |
| 2100 | 2.1 | 4.9 |
| 2200 | 1.9 | 4.3 |
| 2300 | 1.5 | 3.4 |
| 2400 | 1.0 | 2.4 |
| 2500 | 1.0 | 2.3 |
| 2600 | 1.1 | 2.6 |
| 2700 | .7 | 1.7 |
| 2800 | 1.1 | 2.6 |
| 2900 | .3 | .7 |
| 3000 | .3 | .8 |
| 3100 | .3 | .7 |
| 3200 | .2 | .5 |
| PR/PH | 3.338 | |
| PR/1700 | .751 | |
| PH/1800 | .326 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.687 |

TABLE 3-a CONT.'D

G-78

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 3.7 | |
| 1150 | 0.0 | |
| 1200 | 5.6 | |
| 1253 | 3.6 | |
| 1300 | 9.0 | |
| 1356 | 6.4 | |
| 1400 | 10.4 | |
| 1440 | 8.9 | |
| 1500 | 9.4 | |
| 1551 | 3.2 | |
| 1600 | 6.2 | 15.5 |
| 1670 | 4.4 | 11.1 |
| 1700 | 5.9 | 14.8 |
| 1780 | 1.2 | 3.1 |
| 1800 | 3.9 | 9.7 |
| 1851 | 1.8 | 4.5 |
| 1900 | 3.3 | 8.3 |
| 2000 | 2.4 | 6.0 |
| 2100 | 2.0 | 4.9 |
| 2200 | 1.8 | 4.4 |
| 2300 | 1.4 | 3.5 |
| 2400 | 1.0 | 2.5 |
| 2500 | .9 | 2.3 |
| 2600 | 1.0 | 2.5 |
| 2700 | .7 | 1.8 |
| 2800 | .9 | 2.3 |
| 2900 | .5 | 1.2 |
| 3000 | .3 | .7 |
| 3100 | .4 | .9 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.611 | |
| PR/1700 | .753 | |
| PH/1800 | .317 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.735 |

TABLE 3-a CONT. 'D

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TABLE 3-a CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 2.3 | |
| 1150 | 0.0 | |
| 1200 | 4.6 | |
| 1253 | 3.0 | |
| 1300 | 7.8 | |
| 1356 | 6.1 | |
| 1400 | 10.2 | |
| 1440 | 8.9 | |
| 1500 | 9.5 | |
| 1551 | 3.2 | |
| 1600 | 6.3 | 14.2 |
| 1670 | 5.1 | 11.4 |
| 1700 | 6.5 | 14.5 |
| 1780 | 1.7 | 3.8 |
| 1800 | 4.5 | 10.1 |
| 1851 | 2.0 | 4.5 |
| 1900 | 3.7 | 8.3 |
| 2000 | 2.8 | 6.2 |
| 2100 | 2.2 | 5.0 |
| 2200 | 1.9 | 4.3 |
| 2300 | 1.6 | 3.6 |
| 2400 | 1.1 | 2.5 |
| 2500 | 1.0 | 2.2 |
| 2600 | 1.1 | 2.6 |
| 2700 | .6 | 1.3 |
| 2800 | 1.5 | 3.4 |
| 2900 | 1.0 | 2.2 |
| 3000 | 0.0 | 0.0 |
| 3100 | 0.0 | 0.0 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.028 | |
| PR/1700 | .782 | |
| PH/1800 | .373 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.314 |

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE 132328-1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.2 | |
| 1150 | .6 | |
| 1200 | 8.7 | |
| 1253 | 5.3 | |
| 1300 | 9.6 | |
| 1356 | 6.8 | |
| 1400 | 9.6 | |
| 1440 | 8.4 | |
| 1500 | 8.5 | |
| 1551 | 3.4 | |
| 1600 | 4.2 | 11.9 |
| 1670 | 4.5 | 12.7 |
| 1700 | 5.4 | 15.5 |
| 1780 | 1.8 | 5.0 |
| 1800 | 3.7 | 10.5 |
| 1851 | 1.5 | 4.2 |
| 1900 | 2.9 | 8.3 |
| 2000 | 2.1 | 6.1 |
| 2100 | 1.6 | 4.7 |
| 2200 | 1.4 | 4.1 |
| 2300 | 1.2 | 3.4 |
| 2400 | 1.1 | 3.1 |
| 2500 | .8 | 2.2 |
| 2600 | .7 | 2.0 |
| 2700 | .6 | 1.7 |
| 2800 | .7 | 1.9 |
| 2900 | .3 | 1.0 |
| 3000 | .3 | .7 |
| 3100 | .4 | 1.1 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 2.536 | |
| PR/1700 | .819 | |
| PH/1800 | .479 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 4.410 |

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TABLE 3-a CONT.'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE 131328-1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 0.0 | |
| 1200 | 0.0 | |
| 1253 | 1.3 | |
| 1300 | 1.9 | |
| 1356 | 4.2 | |
| 1400 | 7.1 | |
| 1440 | 9.1 | |
| 1500 | 9.9 | |
| 1551 | 3.5 | |
| 1600 | 6.8 | 10.8 |
| 1670 | 7.0 | 11.1 |
| 1700 | 9.0 | 14.3 |
| 1780 | 2.2 | 3.5 |
| 1800 | 6.5 | 10.3 |
| 1851 | 2.6 | 4.2 |
| 1900 | 5.9 | 9.3 |
| 2000 | 4.3 | 6.9 |
| 2100 | 3.6 | 5.7 |
| 2200 | 3.5 | 5.6 |
| 2300 | 2.9 | 4.5 |
| 2400 | 2.6 | 4.1 |
| 2500 | 2.2 | 3.4 |
| 2600 | 2.0 | 3.1 |
| 2700 | 1.4 | 2.3 |
| 2800 | .5 | .8 |
| 2900 | 0.0 | 0.0 |
| 3000 | 0.0 | 0.0 |
| 3100 | 0.0 | 0.0 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.124 | |
| PR/1700 | .774 | |
| PH/1800 | .343 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.555 |

TABLE 3-a CONT. 'D

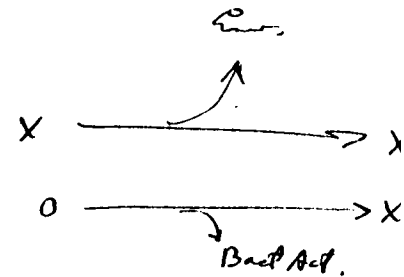
| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--------------------------------------|----------------------------------|----------------------------|
| 1100 - C ₁₁ Normal Alkane | 3.7 | |
| 1150 | 0.0 | |
| 1200 - C ₁₂ | 5.9 | |
| 1253 | 4.2 | |
| 1300 | 9.3 | |
| 1356 | 6.8 | |
| 1400 | 10.4 | |
| 1440 | 9.0 | |
| 1500 | 9.0 | |
| 1551 | 3.1 | |
| 1600 | 5.7 | 14.6 |
| 1670 - Prn. | 4.3 | 11.0 |
| 1700 | 5.4 | 14.1 |
| 1780 - Phyt. | 1.2 | 3.1 |
| 1800 | 3.8 | 9.7 |
| 1851 | 1.8 | 4.8 |
| 1900 | 3.3 | 8.7 |
| 2000 | 2.5 | 6.5 |
| 2100 | 2.0 | 5.2 |
| 2200 | 1.8 | 4.7 |
| 2300 | 1.4 | 3.6 |
| 2400 | .9 | 2.4 |
| 2500 | .8 | 2.2 |
| 2600 | 1.0 | 2.5 |
| 2700 | .6 | 1.6 |
| 2800 | .9 | 2.4 |
| 2900 | .4 | 1.1 |
| 3000 | .3 | .9 |
| 3100 | .3 | .9 |
| 3200 | 0.0 | 0.0 |

PR/PH 3.610

PR/1700 $4.3/5.4 = .786$

PH/1800 $1.2/3.8 = .314$

SUM OF THE N-ALKANES 1600-3200 / PR+PH 5.753



2 WC
C₁₂ C₁₂
5.9 - 4.9

TABLE 3-2
CONT.

WC - Sample
~~Sample - WC = B₁~~

(2 - WC) - Sample = B₁

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| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 3.3 | |
| 1150 | 0.0 | |
| 1200 | 5.6 | |
| 1253 | 3.5 | |
| 1300 | 8.7 | |
| 1356 | 6.5 | |
| 1400 | 10.5 | |
| 1440 | 8.9 | |
| 1500 | 9.6 | |
| 1551 | 3.3 | |
| 1600 | 6.1 | 15.3 |
| 1670 | 4.6 | 11.5 |
| 1700 | 6.0 | 15.0 |
| 1780 | 1.4 | 3.4 |
| 1800 | 3.9 | 9.8 |
| 1851 | 1.8 | 4.4 |
| 1900 | 3.3 | 8.3 |
| 2000 | 2.4 | 6.0 |
| 2100 | 1.9 | 4.7 |
| 2200 | 1.6 | 4.1 |
| 2300 | 1.3 | 3.3 |
| 2400 | .9 | 2.3 |
| 2500 | .8 | 2.1 |
| 2600 | .9 | 2.3 |
| 2700 | .7 | 1.7 |
| 2800 | .9 | 2.3 |
| 2900 | .5 | 1.3 |
| 3000 | .4 | 1.1 |
| 3100 | .5 | 1.1 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.369 | |
| PR/1700 | .768 | |
| PH/1800 | .347 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.401 |

TABLE 3-a CONT. 'D

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| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 2.8 | |
| 1150 | 0.0 | |
| 1200 | 5.4 | |
| 1253 | 3.3 | |
| 1300 | 8.6 | |
| 1356 | 6.3 | |
| 1400 | 10.6 | |
| 1440 | 8.9 | |
| 1500 | 9.7 | |
| 1551 | 3.3 | |
| 1600 | 6.5 | 15.9 |
| 1670 | 4.6 | 11.3 |
| 1700 | 6.3 | 15.3 |
| 1780 | 1.3 | 3.3 |
| 1800 | 4.1 | 10.0 |
| 1851 | 1.5 | 3.7 |
| 1900 | 3.4 | 8.3 |
| 2000 | 2.6 | 6.2 |
| 2100 | 2.0 | 4.9 |
| 2200 | 1.8 | 4.3 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.0 | 2.5 |
| 2500 | .9 | 2.2 |
| 2600 | 1.0 | 2.5 |
| 2700 | .7 | 1.7 |
| 2800 | 1.0 | 2.4 |
| 2900 | .3 | .7 |
| 3000 | .3 | .6 |
| 3100 | .3 | .7 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.459 | |
| PR/1700 | .742 | |
| PH/1800 | .327 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.595 |

TABLE 3-a CONT. 'D

TABLE 3-a CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 3.4 | |
| 1150 | 0.0 | |
| 1200 | 5.9 | |
| 1253 | 3.8 | |
| 1300 | 8.9 | |
| 1356 | 6.4 | |
| 1400 | 10.2 | |
| 1440 | 8.5 | |
| 1500 | 9.1 | |
| 1551 | 3.1 | |
| 1600 | 6.0 | 14.8 |
| 1670 | 4.4 | 10.7 |
| 1700 | 5.9 | 14.5 |
| 1780 | 1.2 | 3.0 |
| 1800 | 4.1 | 10.0 |
| 1851 | 1.9 | 4.7 |
| 1900 | 3.6 | 8.8 |
| 2000 | 2.6 | 6.4 |
| 2100 | 2.0 | 4.9 |
| 2200 | 1.8 | 4.4 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.0 | 2.4 |
| 2500 | .9 | 2.2 |
| 2600 | 1.0 | 2.5 |
| 2700 | .7 | 1.7 |
| 2800 | 1.0 | 2.5 |
| 2900 | .6 | 1.4 |
| 3000 | .4 | .9 |
| 3100 | .3 | .7 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.535 | |
| PR/1700 | .739 | |
| PH/1800 | .303 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.915 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 0.0 | |
| 1200 | .6 | |
| 1253 | 1.6 | |
| 1300 | 3.0 | |
| 1356 | 4.6 | |
| 1400 | 7.3 | |
| 1440 | 8.7 | |
| 1500 | 9.9 | |
| 1551 | 3.3 | |
| 1600 | 6.5 | 10.7 |
| 1670 | 5.9 | 9.6 |
| 1700 | 8.2 | 13.4 |
| 1780 | 1.6 | 2.6 |
| 1800 | 6.4 | 10.5 |
| 1851 | 2.6 | 4.2 |
| 1900 | 6.1 | 9.9 |
| 2000 | 4.5 | 7.4 |
| 2100 | 3.7 | 6.0 |
| 2200 | 3.7 | 6.0 |
| 2300 | 2.9 | 4.7 |
| 2400 | 2.6 | 4.3 |
| 2500 | 2.3 | 3.7 |
| 2600 | 2.0 | 3.3 |
| 2700 | 1.7 | 2.8 |
| 2800 | .6 | 1.0 |
| 2900 | 0.0 | 0.0 |
| 3000 | 0.0 | 0.0 |
| 3100 | 0.0 | 0.0 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.747 | |
| PR/1700 | .716 | |
| PH/1800 | .245 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.857 |

TABLE 3-a CONT. 'D

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TABLE 3-a CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 0.0 | |
| 1200 | 0.0 | |
| 1253 | 0.0 | |
| 1300 | 0.0 | |
| 1356 | 4.9 | |
| 1400 | 9.7 | |
| 1440 | 10.0 | |
| 1500 | 11.7 | |
| 1551 | 4.7 | |
| 1600 | 8.4 | 14.2 |
| 1670 | 6.7 | 11.4 |
| 1700 | 8.8 | 15.0 |
| 1780 | 2.2 | 3.7 |
| 1800 | 6.1 | 10.4 |
| 1851 | 2.8 | 4.7 |
| 1900 | 5.2 | 8.8 |
| 2000 | 3.8 | 6.5 |
| 2100 | 2.9 | 5.0 |
| 2200 | 2.5 | 4.3 |
| 2300 | 2.0 | 3.4 |
| 2400 | 1.4 | 2.3 |
| 2500 | 1.3 | 2.1 |
| 2600 | 1.4 | 2.4 |
| 2700 | 1.0 | 1.6 |
| 2800 | 1.1 | 1.9 |
| 2900 | .3 | .5 |
| 3000 | .5 | .9 |
| 3100 | .6 | 1.0 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 3.103 | |
| PR/1700 | .760 | |
| PH/1800 | .353 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.330 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--------------|----------------------------------|----------------------------|
| 1100 | 2.0 | |
| 1150 | 1.1 | |
| 1200 | 7.2 | |
| 1253 | 4.9 | |
| 1300 | 8.7 | |
| 1356 | 6.7 | |
| 1400 | 9.7 | |
| 1440 | 8.7 | |
| 1500 | 8.9 | |
| 1551 | 3.6 | |
| 1600 | 4.5 | 11.8 |
| 1670 | 4.7 | 12.3 |
| 1700 | 5.7 | 14.9 |
| 1780 | 1.9 | 4.6 |
| 1800 | 3.9 | 10.2 |
| 1851 | 1.6 | 4.2 |
| 1900 | 3.1 | 8.2 |
| 2000 | 2.3 | 6.1 |
| 2100 | 1.8 | 4.7 |
| 2200 | 1.6 | 4.2 |
| 2300 | 1.3 | 3.4 |
| 2400 | 1.2 | 3.2 |
| 2500 | .9 | 2.3 |
| 2600 | .8 | 2.1 |
| 2700 | .6 | 1.7 |
| 2800 | .7 | 1.8 |
| 2900 | .4 | 1.0 |
| 3000 | .5 | 1.4 |
| 3100 | .4 | 1.1 |
| 3200 | .2 | .6 |

PR/PH 2.565

PR/1700 .827

PH/1800 .472

SUM OF THE N-ALKANES 1600-3200 / PR+PH 4.587

TABLE 3-a CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--------------|----------------------------------|----------------------------|
| 1100 | 2.4 | |
| 1150 | 0.0 | |
| 1200 | 6.2 | |
| 1253 | 4.7 | |
| 1300 | 8.3 | |
| 1356 | 6.6 | |
| 1400 | 9.5 | |
| 1440 | 8.8 | |
| 1500 | 9.1 | |
| 1551 | 3.8 | |
| 1600 | 4.6 | 11.2 |
| 1670 | 5.2 | 12.7 |
| 1700 | 6.1 | 15.1 |
| 1780 | 2.1 | 5.1 |
| 1800 | 4.2 | 10.4 |
| 1851 | 1.7 | 4.2 |
| 1900 | 3.3 | 8.2 |
| 2000 | 2.5 | 6.1 |
| 2100 | 1.9 | 4.7 |
| 2200 | 1.7 | 4.2 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.3 | 3.2 |
| 2500 | .9 | 2.3 |
| 2600 | .8 | 2.1 |
| 2700 | .7 | 1.6 |
| 2800 | .9 | 2.1 |
| 2900 | .4 | 1.0 |
| 3000 | .4 | 1.0 |
| 3100 | .5 | 1.2 |
| 3200 | 0.0 | 0.0 |

TABLE 3-a CONT. 'D

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| | |
|--|-------|
| PR/PH | 2.488 |
| PR/1700 | .843 |
| PH/1800 | .491 |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 4.362 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--------------|----------------------------------|----------------------------|
| 1100 | 3.0 | |
| 1150 | 0.0 | |
| 1200 | 5.4 | |
| 1253 | 3.6 | |
| 1300 | 8.3 | |
| 1356 | 6.4 | |
| 1400 | 10.3 | |
| 1440 | 8.9 | |
| 1500 | 9.6 | |
| 1551 | 3.4 | |
| 1600 | 6.4 | 15.7 |
| 1670 | 4.6 | 11.2 |
| 1700 | 6.2 | 15.1 |
| 1780 | 1.3 | 3.1 |
| 1800 | 4.1 | 10.0 |
| 1851 | 1.9 | 4.6 |
| 1900 | 3.5 | 8.6 |
| 2000 | 2.6 | 6.2 |
| 2100 | 2.0 | 4.8 |
| 2200 | 1.7 | 4.2 |
| 2300 | 1.4 | 3.5 |
| 2400 | 1.0 | 2.5 |
| 2500 | 1.0 | 2.4 |
| 2600 | 1.1 | 2.6 |
| 2700 | .7 | 1.7 |
| 2800 | .6 | 1.4 |
| 2900 | .5 | 1.3 |
| 3000 | .3 | .7 |
| 3100 | .2 | .6 |
| 3200 | 0.0 | 0.0 |

PR/PH 3.613

PR/1700 .743

PH/1800 .311

SUM OF THE N-ALKANES 1600-3200 / PR+PH 5.665

TABLE 3-a CONT. 'D

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TABLE 3-a CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 2.5 | |
| 1150 | 0.0 | |
| 1200 | 6.2 | |
| 1253 | 5.0 | |
| 1300 | 8.9 | |
| 1356 | 6.9 | |
| 1400 | 9.7 | |
| 1440 | 9.0 | |
| 1500 | 9.2 | |
| 1551 | 3.9 | |
| 1600 | 4.5 | 11.7 |
| 1670 | 5.1 | 13.2 |
| 1700 | 6.1 | 15.8 |
| 1780 | 2.0 | 5.3 |
| 1800 | 4.1 | 10.6 |
| 1851 | 1.7 | 4.3 |
| 1900 | 3.2 | 8.3 |
| 2000 | 2.3 | 6.1 |
| 2100 | 1.8 | 4.6 |
| 2200 | 1.5 | 3.9 |
| 2300 | 1.2 | 3.2 |
| 2400 | 1.2 | 3.0 |
| 2500 | .8 | 2.1 |
| 2600 | .7 | 1.9 |
| 2700 | .6 | 1.6 |
| 2800 | .8 | 2.0 |
| 2900 | .3 | .8 |
| 3000 | .2 | .6 |
| 3100 | .4 | 1.0 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 2.515 | |
| PR/1700 | .837 | |
| PH/1800 | .494 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 4.182 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--------------|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 0.0 | |
| 1200 | 0.0 | |
| 1253 | 2.6 | |
| 1300 | 7.5 | |
| 1356 | 6.6 | |
| 1400 | 10.9 | |
| 1440 | 9.8 | |
| 1500 | 10.5 | |
| 1551 | 3.7 | |
| 1600 | 7.0 | 14.5 |
| 1670 | 5.2 | 10.7 |
| 1700 | 6.9 | 14.4 |
| 1780 | 1.5 | 3.1 |
| 1800 | 4.7 | 9.7 |
| 1851 | 2.1 | 4.4 |
| 1900 | 4.1 | 8.4 |
| 2000 | 3.0 | 6.3 |
| 2100 | 2.4 | 5.0 |
| 2200 | 2.2 | 4.5 |
| 2300 | 1.7 | 3.5 |
| 2400 | 1.2 | 2.5 |
| 2500 | 1.1 | 2.3 |
| 2600 | 1.2 | 2.5 |
| 2700 | .8 | 1.7 |
| 2800 | 1.3 | 2.6 |
| 2900 | .7 | 1.4 |
| 3000 | .7 | 1.5 |
| 3100 | .5 | .9 |
| 3200 | 0.0 | 0.0 |

PR/PH 3.471

PR/1700 .745

PH/1800 .317

SUM OF THE N-ALKANES 1600-3200 / PR+PH 5.918

TABLE 3-a CONT. 'D

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G-94

TABLE 3-a CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 0.0 | |
| 1200 | 0.0 | |
| 1253 | 0.0 | |
| 1300 | 0.0 | |
| 1356 | 4.3 | |
| 1400 | 9.1 | |
| 1440 | 10.0 | |
| 1500 | 11.7 | |
| 1551 | 4.7 | |
| 1600 | 8.3 | 13.7 |
| 1670 | 6.6 | 10.9 |
| 1700 | 8.7 | 14.4 |
| 1780 | 2.0 | 3.4 |
| 1800 | 6.0 | 9.9 |
| 1851 | 2.8 | 4.7 |
| 1900 | 5.2 | 8.7 |
| 2000 | 4.0 | 6.6 |
| 2100 | 3.1 | 5.2 |
| 2200 | 2.8 | 4.6 |
| 2300 | 2.3 | 3.8 |
| 2400 | 1.6 | 2.6 |
| 2500 | 1.4 | 2.4 |
| 2600 | 1.5 | 2.4 |
| 2700 | 1.0 | 1.7 |
| 2800 | 1.1 | 1.9 |
| 2900 | .7 | 1.2 |
| 3000 | .4 | .7 |
| 3100 | .3 | .5 |
| 3200 | .5 | .8 |
| PR/PH | 3.230 | |
| PR/1700 | .760 | |
| PH/1800 | .342 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.661 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--------------|----------------------------------|----------------------------|
| 1100 | .7 | |
| 1150 | 0.0 | |
| 1200 | 3.3 | |
| 1253 | 3.1 | |
| 1300 | 6.2 | |
| 1356 | 5.8 | |
| 1400 | 9.0 | |
| 1440 | 8.9 | |
| 1500 | 9.8 | |
| 1551 | 2.1 | |
| 1600 | 5.4 | 10.6 |
| 1670 | 6.3 | 12.3 |
| 1700 | 7.7 | 15.0 |
| 1780 | 2.6 | 5.0 |
| 1800 | 5.4 | 10.6 |
| 1851 | 2.2 | 4.3 |
| 1900 | 4.3 | 8.5 |
| 2000 | 3.2 | 6.3 |
| 2100 | 2.5 | 4.9 |
| 2200 | 2.2 | 4.2 |
| 2300 | 1.8 | 3.5 |
| 2400 | 1.6 | 3.2 |
| 2500 | 1.2 | 2.3 |
| 2600 | 1.1 | 2.1 |
| 2700 | 1.0 | 1.9 |
| 2800 | 1.0 | 1.9 |
| 2900 | .4 | .8 |
| 3000 | .4 | .7 |
| 3100 | .5 | 1.1 |
| 3200 | .3 | .6 |

PR/PH 2.457

PR/1700 .821

PH/1800 .475

SUM OF THE N-ALKANES 1600-3200 / PR+PH 4.514

TABLE 3-a CONT. 'D

G-95

G-96

TABLE 3-a CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 0.0 | |
| 1200 | 3.3 | |
| 1253 | 3.4 | |
| 1300 | 6.8 | |
| 1356 | 6.3 | |
| 1400 | 9.5 | |
| 1440 | 9.2 | |
| 1500 | 9.9 | |
| 1551 | 2.2 | |
| 1600 | 5.3 | 10.6 |
| 1670 | 6.1 | 12.4 |
| 1700 | 7.4 | 15.0 |
| 1780 | 2.5 | 5.1 |
| 1800 | 5.2 | 10.5 |
| 1851 | 2.1 | 4.3 |
| 1900 | 4.2 | 8.4 |
| 2000 | 3.1 | 6.3 |
| 2100 | 2.4 | 4.8 |
| 2200 | 2.1 | 4.3 |
| 2300 | 1.7 | 3.5 |
| 2400 | 1.6 | 3.3 |
| 2500 | 1.1 | 2.3 |
| 2600 | 1.0 | 2.1 |
| 2700 | .9 | 1.7 |
| 2800 | 1.0 | 2.1 |
| 2900 | .4 | .7 |
| 3000 | .4 | .7 |
| 3100 | .6 | 1.2 |
| 3200 | .4 | .8 |
| PR/PH | 2.438 | |
| PR/1700 | .825 | |
| PH/1800 | .483 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 4.484 |

TABLE 3-a CONT.'D

Summary for Cruise 1 succession:B. Aromatic Fraction Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|--|
| 1 | *111217 | 2, 0 |
| 2 | 112217 | 2, 0 |
| 3 | 111328 | 2, 39 |
| 4 | 112328 | 2, 39 |
| 5 | 121328 | 2, 39 |
| 6 | 122328 | 2, 39 |
| 7 | 131328 | 2, 39 |
| 8 | 132328 | 2, 39 |
| 9 | 111415 | 2, 57 |
| 10 | 112415 | 2, 57 |
| 11 | 121415 | 2, 57 |
| 12 | 122415 | 2, 57 |
| 13 | 131415 | 2, 57 |
| 14 | 132415 | 2, 57 |
| **15 | 111507 | 2, 79 |
| 16 | 112507 | 2, 79 |
| 17 | 121507 | 2, 79 |
| 18 | 122507 | 2, 79 |
| 19 | 131507 | 2, 79 |
| 20 | 132507 | 2, 79 |
| 21 | 113507 | 2, Sterile Weathering Control (79-day) |
| 22 | 114507 | 2, Sterile Weathering Control (79-day) |

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

** Print out missing.

NAME PERCENT COMPOSITION

| | | |
|------|------|---|
| 1870 | 18.5 | ✓ |
| 1905 | 7.8 | |
| 1980 | 6.3 | ✓ |
| 2020 | 21.7 | ✓ |
| 2060 | 9.2 | |
| 2130 | 15.2 | ✓ |
| 2170 | 4.7 | |
| 2205 | 6.8 | |
| 2250 | 0.0 | |
| 2430 | 3.6 | |
| 2520 | 3.7 | |
| 2780 | 2.5 | |

TABLE 3-a CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 19.0 ✓ |
| 1905 | 8.3 |
| 1980 | 7.1 ✓ |
| 2020 | 21.8 ✓ |
| 2060 | 9.2 |
| 2130 | 15.0 ✓ |
| 2170 | 4.4 |
| 2205 | 6.5 |
| 2250 | 0.0 |
| 2430 | 2.8 |
| 2520 | 3.6 |
| 2780 | 2.4 |

TABLE 3-a CONT.'D

G-100

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 15.3 ✓ |
| 1905 | 4.5 |
| 1980 | 5.7 ✓ |
| 2020 | 20.7 ✓ |
| 2060 | 9.1 |
| 2130 | 15.5 ✓ |
| 2170 | 5.0 |
| 2205 | 7.5 |
| 2250 | 0.0 |
| 2430 | 3.7 |
| 2520 | 4.3 |
| 2780 | 8.7 |

TABLE 3-a CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 17.0 ✓ |
| 1905 | 7.0 |
| 1980 | 6.7 ✓ |
| 2020 | 21.2 ✓ |
| 2060 | 9.3 |
| 2130 | 15.4 ✓ |
| 2170 | 4.4 |
| 2205 | 6.7 |
| 2250 | 0.0 |
| 2430 | 3.3 |
| 2520 | 5.5 |
| 2780 | 3.5 |

G-102

TABLE 3-a CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 15.8 ✓ |
| 1905 | 6.6 |
| 1980 | 5.9 ✓ |
| 2020 | 21.2 ✓ |
| 2060 | 9.6 |
| 2130 | 16.3 ✓ |
| 2170 | 5.2 |
| 2205 | 8.1 |
| 2250 | 0.0 |
| 2430 | 2.9 |
| 2520 | 4.3 |
| 2780 | 4.1 |

TABLE 3-a CONT. 'D

G-104

TABLE 3-a CONT.'D

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 18.4 ✓ |
| 1905 | 6.6 |
| 1980 | 4.6 ✓ |
| 2020 | 21.1 ✓ |
| 2060 | 9.1 |
| 2130 | 15.9 ✓ |
| 2170 | 5.3 |
| 2205 | 7.6 |
| 2250 | 0.0 |
| 2430 | 3.7 |
| 2520 | 4.8 |
| 2780 | 2.7 |

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 17.7 ✓ |
| 1905 | 0.0 |
| 1980 | 3.7 ✓ |
| 2020 | 17.6 ✓ |
| 2060 | 10.0 |
| 2130 | 19.0 ✓ |
| 2170 | 5.6 |
| 2205 | 12.1 |
| 2250 | 0.0 |
| 2430 | 4.4 |
| 2520 | 4.9 |
| 2780 | 5.0 |

TABLE 3-a CONT.'D

G-105

G-106

TABLE 3-a CONT. 'D

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 15.9 ✓ |
| 1905 | 7.1 |
| 1980 | 5.6 ✓ |
| 2020 | 21.0 ✓ |
| 2060 | 8.8 |
| 2130 | 14.5 ✓ |
| 2170 | 4.2 |
| 2205 | 6.4 |
| 2250 | 0.0 |
| 2430 | 2.6 |
| 2520 | 3.5 |
| 2780 | 10.3 |

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 15.2 ✓ |
| 1905 | 6.4 |
| 1980 | 6.0 ✓ |
| 2020 | 20.6 ✓ |
| 2060 | 8.9 |
| 2130 | 14.7 ✓ |
| 2170 | 4.1 |
| 2205 | 6.6 |
| 2250 | 0.0 |
| 2430 | 5.7 |
| 2520 | 3.2 |
| 2780 | 8.5 |

TABLE 3-a CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 17.3 |
| 1905 | 7.7 |
| 1980 | 6.4 |
| 2020 | 22.3 |
| 2060 | 9.8 |
| 2130 | 16.0 |
| 2170 | 4.8 |
| 2205 | 8.2 |
| 2250 | 0.0 |
| 2430 | 2.6 |
| 2520 | 3.2 |
| 2780 | 1.9 |

TABLE 3-a CONT. 'D

G-108

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 20.0 ✓ |
| 1905 | 8.3 ✓ |
| 1980 | 4.6 ✓ |
| 2020 | 21.2 ✓ |
| 2060 | 8.0 |
| 2130 | 14.9 ✓ |
| 2170 | 3.9 |
| 2205 | 7.9 |
| 2250 | 0.0 |
| 2430 | 4.4 |
| 2520 | 3.5 |
| 2780 | 3.3 |

TABLE 3-a CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 16.9 |
| 1905 | 6.8 |
| 1980 | 6.1 |
| 2020 | 21.0 |
| 2060 | 9.8 |
| 2130 | 16.1 |
| 2170 | 4.8 |
| 2205 | 7.5 |
| 2250 | 0.0 |
| 2430 | 2.6 |
| 2520 | 4.0 |
| 2780 | 4.3 |

TABLE 3-a CONT.'D

G-110

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 15.9 ✓ |
| 1905 | 0.0 |
| 1980 | 3.5 . |
| 2020 | 17.9 - |
| 2060 | 10.0 |
| 2130 | 18.6 ✓ |
| 2170 | 5.8 |
| 2205 | 11.3 |
| 2250 | 0.0 |
| 2430 | 6.0 |
| 2520 | 6.4 |
| 2780 | 4.5 |

TABLE 3-a CONT. 'D

G-112

TABLE 3-a CONT. 'D

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 13.9 ✓ |
| 1905 | 0.0 |
| 1980 | 3.5 ✓ |
| 2020 | 19.4 ✓ |
| 2060 | 10.7 |
| 2130 | 20.0 ✓ |
| 2170 | 5.7 |
| 2205 | 13.6 |
| 2250 | 0.0 |
| 2430 | 4.3 |
| 2520 | 9.0 |
| 2780 | 0.0 |

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 17.3 |
| 1905 | 3.9 |
| 1980 | 10.0 ✓ |
| 2020 | 19.2 ✓ |
| 2060 | 10.0 |
| 2130 | 15.9 ✓ |
| 2170 | 5.4 |
| 2205 | 5.9 |
| 2250 | .7 |
| 2430 | 2.8 |
| 2520 | 4.6 |
| 2780 | 4.4 |

TABLE 3-a CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 17.0 ✓ |
| 1905 | 6.5 |
| 1980 | 6.0 ✓ |
| 2020 | 20.2 ✓ |
| 2060 | 9.1 |
| 2130 | 15.4 ✓ |
| 2170 | 4.6 |
| 2205 | 7.2 |
| 2250 | 0.0 |
| 2430 | 3.1 |
| 2520 | 4.4 |
| 2780 | 6.4 |

TABLE 3-a CONT.'D

G-114

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 18.3 ✓ |
| 1905 | 4.4 |
| 1980 | 10.1 ✓ |
| 2020 | 19.7 ✓ |
| 2060 | 10.3 |
| 2130 | 15.9 ✓ |
| 2170 | 5.6 |
| 2205 | 5.8 |
| 2250 | .8 |
| 2430 | 2.7 |
| 2520 | 4.3 |
| 2780 | 2.1 |

TABLE 3-a CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 16.2 ✓ |
| 1905 | 6.4 |
| 1980 | 6.0 ✓ |
| 2020 | 21.5 ✓ |
| 2060 | 9.6 |
| 2130 | 16.3 ✓ |
| 2170 | 4.7 |
| 2205 | 8.5 |
| 2250 | 0.0 |
| 2430 | 3.9 |
| 2520 | 4.7 |
| 2780 | 2.3 |

TABLE 3-a CONT.'D

G-116

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 17.9 ✓ |
| 1905 | 0.0 |
| 1980 | 3.2 ✓ |
| 2020 | 17.2 ✓ |
| 2060 | 10.3 |
| 2130 | 19.3 ✓ |
| 2170 | 5.6 |
| 2205 | 11.6 |
| 2250 | 0.0 |
| 2430 | 5.7 |
| 2520 | 6.0 |
| 2780 | 3.1 |

TABLE 3-a CONT. 'D

G-118

TABLE 3-a CONT. 'D

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 17.1 ✓ |
| 1905 | 4.0 |
| 1980 | 9.3 ✓ |
| 2020 | 19.0 ✓ |
| 2060 | 10.6 |
| 2130 | 16.3 ✓ |
| 2170 | 5.9 |
| 2205 | 6.1 |
| 2250 | 0.0 |
| 2430 | 3.3 |
| 2520 | 5.9 |
| 2780 | 2.5 |

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 17.2 ✓ |
| 1905 | 3.8 |
| 1980 | 9.2 ✓ |
| 2020 | 18.2 ✓ |
| 2060 | 10.1 |
| 2130 | 16.1 ✓ |
| 2170 | 5.6 |
| 2205 | 6.2 |
| 2250 | 0.0 |
| 2430 | 3.2 |
| 2520 | 5.4 |
| 2780 | 5.0 |

TABLE 3-a CONT. 'D

TABLE 3-b

Summary for Cruise 2 succession:

A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|--|
| 1 | *211325 | 1, 0 |
| 2 | 212325 | 1, 0 |
| 3 | 211415 | 1, 0 |
| 4 | 212415 | 1, 21 |
| 5 | 221415 | 1, 21 |
| 6 | 222415 | 1, 21 |
| 7 | 231415 | 1, 21 |
| 8 | 232415 | 1, 21 |
| 9 | 211507 | 1, 43 |
| 10 | 212507 | 1, 43 |
| 11 | 221507 | 1, 43 |
| 12 | 222507 | 1, 43 |
| 13 | 231507 | 1, 43 |
| 14 | 232507 | 1, 43 |
| 15 | 211520 | 1, 56 |
| 16 | 212520 | 1, 56 |
| 17 | 221520 | 1, 56 |
| 18 | 222520 | 1, 56 |
| 19 | 231520 | 1, 56 |
| 20 | 232520 | 1, 56 |
| 21 | 213520 | 1, Sterile Weathering Control (56-day) |
| 22 | 214520 | 1, Sterile Weathering Control (56-day) |

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 7.1 | |
| 1150 | 2.5 | |
| 1200 | 9.5 | |
| 1253 | 5.9 | |
| 1300 | 9.6 | |
| 1350 | 5.9 | |
| 1400 | 9.0 | |
| 1440 | 6.6 | |
| 1500 | 7.3 | |
| 1551 | .2 | |
| 1600 | 7.3 | 20.0 |
| 1670 | 3.6 | 9.9 |
| 1700 | 4.8 | 13.1 |
| 1780 | 1.7 | 4.5 |
| 1800 | 3.3 | 9.1 |
| 1851 | 1.1 | 2.9 |
| 1900 | 2.6 | 7.2 |
| 2000 | 1.9 | 5.3 |
| 2100 | 1.7 | 4.6 |
| 2200 | 1.3 | 3.7 |
| 2300 | 1.2 | 3.2 |
| 2400 | 1.9 | 5.1 |
| 2500 | .8 | 2.2 |
| 2600 | .6 | 1.8 |
| 2700 | .6 | 1.6 |
| 2800 | .8 | 2.1 |
| 2900 | .5 | 1.2 |
| 3000 | .3 | .8 |
| 3100 | .4 | 1.2 |
| 3200 | .2 | .7 |
| PR/PH | 2.173 | |
| PR/1700 | .753 | |
| PH/1800 | .500 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.740 |

TABLE 3-b CONT. 'D

G-121

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 1.3 | |
| 1200 | 9.2 | |
| 1253 | 5.5 | |
| 1300 | 10.0 | |
| 1356 | 6.6 | |
| 1400 | 10.2 | |
| 1440 | 7.6 | |
| 1500 | 8.9 | |
| 1551 | 1.7 | |
| 1600 | 4.9 | 12.7 |
| 1670 | 4.2 | 10.9 |
| 1700 | 5.9 | 15.1 |
| 1780 | 1.6 | 4.0 |
| 1800 | 4.1 | 10.6 |
| 1851 | 1.4 | 3.5 |
| 1900 | 3.3 | 8.6 |
| 2000 | 2.5 | 6.4 |
| 2100 | 2.0 | 5.1 |
| 2200 | 1.7 | 4.3 |
| 2300 | 1.4 | 3.6 |
| 2400 | 1.3 | 3.2 |
| 2500 | .9 | 2.3 |
| 2600 | .8 | 2.2 |
| 2700 | .7 | 1.8 |
| 2800 | .7 | 1.7 |
| 2900 | .4 | .9 |
| 3000 | .3 | .9 |
| 3100 | .5 | 1.4 |
| 3200 | .4 | .9 |
| PR/PH | 2.734 | |
| PR/1700 | .719 | |
| PH/1800 | .376 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.492 |

TABLE 3-b CONT. 'D

G-122

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 6.3 | |
| 1150 | 2.1 | |
| 1200 | 9.8 | |
| 1253 | 5.6 | |
| 1300 | 9.6 | |
| 1356 | 5.6 | |
| 1400 | 8.7 | |
| 1440 | 6.1 | |
| 1500 | 7.7 | |
| 1551 | .2 | |
| 1600 | 7.5 | 19.6 |
| 1670 | 3.7 | 9.7 |
| 1700 | 5.1 | 13.1 |
| 1780 | 1.8 | 4.5 |
| 1800 | 3.6 | 9.4 |
| 1851 | 1.2 | 3.1 |
| 1900 | 2.9 | 7.6 |
| 2000 | 2.2 | 5.7 |
| 2100 | 1.8 | 4.7 |
| 2200 | 1.5 | 4.0 |
| 2300 | 1.3 | 3.5 |
| 2400 | 1.2 | 3.1 |
| 2500 | .9 | 2.3 |
| 2600 | .8 | 2.1 |
| 2700 | .7 | 1.7 |
| 2800 | .8 | 2.0 |
| 2900 | .3 | .9 |
| 3000 | .3 | .8 |
| 3100 | .6 | 1.6 |
| 3200 | .3 | .7 |
| PR/PH | 2.132 | |
| PR/1700 | .738 | |
| PH/1800 | .485 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.810 |

TABLE 3-b CONT. 'D

G-123

TABLE 3-b CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.1 | |
| 1150 | .9 | |
| 1200 | 8.2 | |
| 1253 | 5.1 | |
| 1300 | 9.3 | |
| 1356 | 6.1 | |
| 1400 | 9.4 | |
| 1440 | 7.1 | |
| 1500 | 8.4 | |
| 1551 | 1.6 | |
| 1600 | 8.1 | 20.4 |
| 1670 | 4.0 | 10.1 |
| 1700 | 5.5 | 13.7 |
| 1780 | 1.4 | 3.6 |
| 1800 | 3.8 | 9.5 |
| 1851 | 1.2 | 3.1 |
| 1900 | 3.1 | 7.7 |
| 2000 | 2.3 | 5.8 |
| 2100 | 1.8 | 4.6 |
| 2200 | 1.5 | 3.9 |
| 2300 | 1.3 | 3.3 |
| 2400 | 1.2 | 2.9 |
| 2500 | .9 | 2.2 |
| 2600 | .8 | 2.0 |
| 2700 | .6 | 1.6 |
| 2800 | .6 | 1.5 |
| 2900 | .4 | 1.1 |
| 3000 | .4 | 1.1 |
| 3100 | .5 | 1.2 |
| 3200 | .3 | .7 |
| PR/PH | 2.779 | |
| PR/1700 | .736 | |
| PH/1800 | .382 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.070 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 6.4 | |
| 1150 | 0.0 | |
| 1200 | 9.6 | |
| 1253 | 5.4 | |
| 1300 | 9.6 | |
| 1356 | 5.7 | |
| 1400 | 8.9 | |
| 1440 | 6.3 | |
| 1500 | 8.0 | |
| 1551 | .2 | |
| 1600 | 7.9 | 20.0 |
| 1670 | 3.9 | 9.7 |
| 1700 | 5.3 | 13.4 |
| 1780 | 1.8 | 4.6 |
| 1800 | 3.7 | 9.4 |
| 1851 | 1.2 | 2.9 |
| 1900 | 3.0 | 7.5 |
| 2000 | 2.2 | 5.7 |
| 2100 | 1.9 | 4.7 |
| 2200 | 1.5 | 3.9 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.2 | 3.0 |
| 2500 | .9 | 2.3 |
| 2600 | .8 | 2.0 |
| 2700 | .6 | 1.6 |
| 2800 | .9 | 2.3 |
| 2900 | .4 | .9 |
| 3000 | .3 | .7 |
| 3100 | .6 | 1.4 |
| 3200 | .2 | .6 |
| PR/PH | 2.138 | |
| PR/1700 | .730 | |
| PH/1800 | .485 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.786 |

TABLE 3-b CONT. 'D

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TABLE 3-b CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 5.9 | |
| 1150 | 1.9 | |
| 1200 | 9.0 | |
| 1253 | 5.1 | |
| 1300 | 9.2 | |
| 1356 | 5.5 | |
| 1400 | 8.7 | |
| 1440 | 6.3 | |
| 1500 | 8.0 | |
| 1551 | .3 | |
| 1600 | 8.0 | 20.1 |
| 1670 | 4.0 | 9.9 |
| 1700 | 5.4 | 13.6 |
| 1780 | 1.9 | 4.7 |
| 1800 | 3.8 | 9.5 |
| 1851 | 1.2 | 2.9 |
| 1900 | 3.0 | 7.6 |
| 2000 | 2.2 | 5.6 |
| 2100 | 1.9 | 4.6 |
| 2200 | 1.5 | 3.8 |
| 2300 | 1.3 | 3.3 |
| 2400 | 1.2 | 3.1 |
| 2500 | .9 | 2.1 |
| 2600 | .8 | 1.9 |
| 2700 | .6 | 1.5 |
| 2800 | .7 | 1.7 |
| 2900 | .4 | 1.0 |
| 3000 | .3 | .8 |
| 3100 | .5 | 1.2 |
| 3200 | .4 | .9 |
| PR/PH | 2.120 | |
| PR/1700 | .732 | |
| PH/1800 | .490 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.643 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.3 | |
| 1150 | .8 | |
| 1200 | 8.2 | |
| 1253 | 5.1 | |
| 1300 | 9.4 | |
| 1356 | 6.2 | |
| 1400 | 9.6 | |
| 1440 | 7.3 | |
| 1500 | 8.6 | |
| 1551 | 1.7 | |
| 1600 | 4.9 | 12.6 |
| 1670 | 4.2 | 10.7 |
| 1700 | 5.8 | 14.9 |
| 1780 | 1.5 | 3.9 |
| 1800 | 4.0 | 10.4 |
| 1851 | 1.3 | 3.4 |
| 1900 | 3.3 | 8.5 |
| 2000 | 2.5 | 6.3 |
| 2100 | 2.0 | 5.1 |
| 2200 | 1.7 | 4.3 |
| 2300 | 1.4 | 3.7 |
| 2400 | 1.3 | 3.3 |
| 2500 | .9 | 2.4 |
| 2600 | .9 | 2.2 |
| 2700 | .7 | 1.8 |
| 2800 | .8 | 2.0 |
| 2900 | .5 | 1.4 |
| 3000 | .4 | .9 |
| 3100 | .5 | 1.3 |
| 3200 | .4 | 1.0 |
| PR/PH | 2.776 | |
| PR/1700 | .718 | |
| PH/1800 | .372 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.624 |

TABLE 3-b CONT. 'D

TABLE 3-b CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.9 | |
| 1150 | 1.0 | |
| 1200 | 9.1 | |
| 1253 | 5.4 | |
| 1300 | 9.8 | |
| 1356 | 6.2 | |
| 1400 | 9.6 | |
| 1440 | 7.3 | |
| 1500 | 8.4 | |
| 1551 | 1.6 | |
| 1600 | 4.7 | 12.7 |
| 1670 | 4.0 | 11.0 |
| 1700 | 5.5 | 15.0 |
| 1780 | 1.4 | 3.9 |
| 1800 | 3.8 | 10.4 |
| 1851 | 1.3 | 3.5 |
| 1900 | 3.1 | 8.5 |
| 2000 | 2.3 | 6.4 |
| 2100 | 1.9 | 5.1 |
| 2200 | 1.6 | 4.2 |
| 2300 | 1.3 | 3.7 |
| 2400 | 1.2 | 3.2 |
| 2500 | .9 | 2.4 |
| 2600 | .8 | 2.1 |
| 2700 | .6 | 1.8 |
| 2800 | .6 | 1.5 |
| 2900 | .4 | 1.2 |
| 3000 | .4 | 1.1 |
| 3100 | .5 | 1.5 |
| 3200 | .3 | .8 |
| PR/PH | 2.805 | |
| PR/1700 | .737 | |
| PH/1800 | .377 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.452 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 5.5 | |
| 1150 | 2.3 | |
| 1200 | 9.7 | |
| 1253 | 6.0 | |
| 1300 | 10.1 | |
| 1356 | 6.0 | |
| 1400 | 9.2 | |
| 1440 | 6.8 | |
| 1500 | 7.5 | |
| 1551 | 0.0 | |
| 1600 | 7.6 | 20.5 |
| 1670 | 3.8 | 10.2 |
| 1700 | 5.0 | 13.4 |
| 1780 | 1.7 | 4.7 |
| 1800 | 3.5 | 9.4 |
| 1851 | 1.1 | 3.0 |
| 1900 | 2.7 | 7.4 |
| 2000 | 2.0 | 5.5 |
| 2100 | 1.7 | 4.5 |
| 2200 | 1.4 | 3.8 |
| 2300 | 1.2 | 3.3 |
| 2400 | 1.0 | 2.8 |
| 2500 | .8 | 2.2 |
| 2600 | .7 | 1.8 |
| 2700 | .5 | 1.4 |
| 2800 | .8 | 2.3 |
| 2900 | .4 | 1.2 |
| 3000 | .2 | .6 |
| 3100 | .4 | .9 |
| 3200 | .4 | 1.1 |
| PR/PH | 2.168 | |
| PR/1700 | .763 | |
| PH/1800 | .504 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.488 |

TABLE 3-b CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 6.4 | |
| 1150 | 2.3 | |
| 1200 | 9.6 | |
| 1253 | 5.6 | |
| 1300 | 9.7 | |
| 1356 | 5.8 | |
| 1400 | 8.9 | |
| 1440 | 6.6 | |
| 1500 | 7.8 | |
| 1551 | .2 | |
| 1600 | 7.7 | 20.6 |
| 1670 | 3.8 | 10.2 |
| 1700 | 5.1 | 13.6 |
| 1780 | 1.8 | 4.7 |
| 1800 | 3.5 | 9.5 |
| 1851 | 1.1 | 3.0 |
| 1900 | 2.8 | 7.5 |
| 2000 | 2.1 | 5.5 |
| 2100 | 1.7 | 4.5 |
| 2200 | 1.4 | 3.8 |
| 2300 | 1.2 | 3.2 |
| 2400 | 1.0 | 2.8 |
| 2500 | .8 | 2.1 |
| 2600 | .7 | 1.9 |
| 2700 | .6 | 1.5 |
| 2800 | .7 | 2.0 |
| 2900 | .4 | 1.0 |
| 3000 | .3 | .7 |
| 3100 | .4 | 1.2 |
| 3200 | .3 | .7 |
| PR/PH | 2.178 | |
| PR/1700 | .751 | |
| PH/1800 | .495 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.492 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | .9 | |
| 1150 | .4 | |
| 1200 | 4.2 | |
| 1253 | 4.1 | |
| 1300 | 8.0 | |
| 1356 | 6.2 | |
| 1400 | 9.9 | |
| 1440 | 7.8 | |
| 1500 | 9.4 | |
| 1551 | 1.9 | |
| 1600 | 9.5 | 20.1 |
| 1670 | 4.7 | 9.9 |
| 1700 | 6.3 | 13.4 |
| 1780 | 1.7 | 3.7 |
| 1800 | 4.5 | 9.4 |
| 1851 | 1.4 | 3.0 |
| 1900 | 3.6 | 7.7 |
| 2000 | 2.7 | 5.8 |
| 2100 | 2.2 | 4.7 |
| 2200 | 1.9 | 3.9 |
| 2300 | 1.6 | 3.4 |
| 2400 | 1.4 | 3.0 |
| 2500 | 1.0 | 2.2 |
| 2600 | .9 | 2.0 |
| 2700 | .8 | 1.6 |
| 2800 | .7 | 1.6 |
| 2900 | .5 | 1.1 |
| 3000 | .6 | 1.3 |
| 3100 | .6 | 1.3 |
| 3200 | .4 | .9 |
| PR/PH | 2.679 | |
| PR/1700 | .734 | |
| PH/1800 | .390 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.166 |

TABLE 3-b CONT. 'D

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TABLE 3-b CONT. 'D'

| NAME | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | .8 | |
| 1150 | .5 | |
| 1200 | 3.9 | |
| 1253 | 3.8 | |
| 1300 | 7.5 | |
| 1356 | 6.0 | |
| 1400 | 9.6 | |
| 1440 | 7.6 | |
| 1500 | 9.3 | |
| 1551 | 3.2 | |
| 1600 | 10.1 | 21.0 |
| 1670 | 4.6 | 9.5 |
| 1700 | 6.3 | 13.1 |
| 1780 | 1.7 | 3.5 |
| 1800 | 4.4 | 9.3 |
| 1851 | 1.4 | 3.0 |
| 1900 | 3.7 | 7.7 |
| 2000 | 2.8 | 5.8 |
| 2100 | 2.2 | 4.7 |
| 2200 | 1.9 | 3.9 |
| 2300 | 1.6 | 3.4 |
| 2400 | 1.5 | 3.0 |
| 2500 | 1.1 | 2.2 |
| 2600 | 1.0 | 2.0 |
| 2700 | .8 | 1.6 |
| 2800 | .8 | 1.6 |
| 2900 | .6 | 1.2 |
| 3000 | .6 | 1.3 |
| 3100 | .6 | 1.2 |
| 3200 | .5 | 1.0 |
| PR/PH | 2.708 | |
| PR/1700 | .723 | |
| PH/1800 | .379 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.453 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 3.9 | |
| 1150 | 1.1 | |
| 1200 | 7.9 | |
| 1253 | 5.0 | |
| 1300 | 9.1 | |
| 1356 | 6.2 | |
| 1400 | 9.8 | |
| 1440 | 7.5 | |
| 1500 | 8.8 | |
| 1551 | 1.7 | |
| 1600 | 4.9 | 12.6 |
| 1670 | 4.2 | 10.8 |
| 1700 | 5.8 | 14.8 |
| 1780 | 1.5 | 3.9 |
| 1800 | 4.1 | 10.4 |
| 1851 | 1.4 | 3.5 |
| 1900 | 3.3 | 8.5 |
| 2000 | 2.5 | 6.4 |
| 2100 | 2.0 | 5.1 |
| 2200 | 1.7 | 4.3 |
| 2300 | 1.5 | 3.7 |
| 2400 | 1.3 | 3.3 |
| 2500 | .9 | 2.4 |
| 2600 | .9 | 2.2 |
| 2700 | .7 | 1.8 |
| 2800 | .7 | 1.8 |
| 2900 | .4 | 1.0 |
| 3000 | .4 | 1.0 |
| 3100 | .5 | 1.4 |
| 3200 | .4 | .9 |
| PR/PH | 2.775 | |
| PR/1700 | .732 | |
| PH/1800 | .376 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.551 |

TABLE 3-b CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE 252507-1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--------------|----------------------------------|----------------------------|
|--------------|----------------------------------|----------------------------|

| | | |
|------|------|------|
| 1100 | 5.0 | |
| 1150 | 1.1 | |
| 1200 | 9.3 | |
| 1253 | 5.7 | |
| 1300 | 10.3 | |
| 1356 | 6.6 | |
| 1400 | 1.0 | |
| 1440 | 7.7 | |
| 1500 | 9.0 | |
| 1551 | 1.7 | |
| 1600 | 8.7 | 20.4 |
| 1670 | 4.3 | 10.1 |
| 1700 | 5.9 | 13.8 |
| 1780 | 1.5 | 3.6 |
| 1800 | 4.1 | 9.6 |
| 1851 | 1.3 | 3.2 |
| 1900 | 3.3 | 7.8 |
| 2000 | 2.5 | 5.8 |
| 2100 | 2.0 | 4.6 |
| 2200 | 1.6 | 3.9 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.3 | 3.0 |
| 2500 | .9 | 2.2 |
| 2600 | .8 | 2.0 |
| 2700 | .7 | 1.6 |
| 2800 | .7 | 1.5 |
| 2900 | .3 | .7 |
| 3000 | .3 | .7 |
| 3100 | .6 | 1.4 |
| 3200 | .3 | .8 |

PR/PH 2.782

PR/1700 .735

PH/1800 .379

SUM OF THE N-ALKANES 1600-3200 / PR+PH 6.050

TABLE 3-b CONT.'D

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| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 5.1 | |
| 1150 | 1.8 | |
| 1200 | 8.9 | |
| 1253 | 5.4 | |
| 1300 | 9.4 | |
| 1356 | 5.7 | |
| 1400 | 8.8 | |
| 1440 | 6.3 | |
| 1500 | 8.0 | |
| 1551 | .2 | |
| 1600 | 7.9 | 19.7 |
| 1670 | 3.9 | 9.6 |
| 1700 | 5.3 | 13.1 |
| 1780 | 1.8 | 4.5 |
| 1800 | 3.8 | 9.3 |
| 1851 | 1.2 | 2.9 |
| 1900 | 3.0 | 7.5 |
| 2000 | 2.3 | 5.6 |
| 2100 | 1.9 | 4.7 |
| 2200 | 1.6 | 3.9 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.3 | 3.2 |
| 2500 | .9 | 2.2 |
| 2600 | .8 | 2.0 |
| 2700 | .7 | 1.6 |
| 2800 | .9 | 2.1 |
| 2900 | .5 | 1.2 |
| 3000 | .4 | .9 |
| 3100 | .7 | 1.6 |
| 3200 | .3 | .8 |
| PR/PH | 2.119 | |
| PR/1700 | .734 | |
| PH/1800 | .488 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.843 |

TABLE 3-b CONT. 'D

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TABLE 3-b CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.9 | |
| 1150 | 0.0 | |
| 1200 | 8.8 | |
| 1253 | 5.3 | |
| 1300 | 9.3 | |
| 1356 | 5.7 | |
| 1400 | 8.9 | |
| 1440 | 6.4 | |
| 1500 | 8.2 | |
| 1551 | .3 | |
| 1600 | 8.4 | 19.8 |
| 1670 | 4.2 | 9.9 |
| 1700 | 5.6 | 13.4 |
| 1780 | 2.0 | 4.7 |
| 1800 | 4.0 | 9.5 |
| 1851 | 1.3 | 3.0 |
| 1900 | 3.2 | 7.6 |
| 2000 | 2.4 | 5.7 |
| 2100 | 2.0 | 4.7 |
| 2200 | 1.7 | 3.9 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.3 | 3.1 |
| 2500 | .9 | 2.2 |
| 2600 | .8 | 2.0 |
| 2700 | .7 | 1.6 |
| 2800 | .7 | 1.7 |
| 2900 | .4 | .9 |
| 3000 | .3 | .8 |
| 3100 | .5 | 1.3 |
| 3200 | .3 | .7 |
| PR/PH | 2.117 | |
| PR/1700 | .740 | |
| PH/1800 | .491 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.655 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.3 | |
| 1150 | 1.5 | |
| 1200 | 8.1 | |
| 1253 | 4.8 | |
| 1300 | 8.8 | |
| 1356 | 5.8 | |
| 1400 | 8.8 | |
| 1440 | 6.7 | |
| 1500 | 7.9 | |
| 1551 | 2.7 | |
| 1600 | 8.5 | 20.9 |
| 1670 | 3.8 | 9.4 |
| 1700 | 5.3 | 13.1 |
| 1780 | 1.7 | 4.2 |
| 1800 | 3.7 | 9.2 |
| 1851 | 1.2 | 3.0 |
| 1900 | 3.1 | 7.6 |
| 2000 | 2.3 | 5.7 |
| 2100 | 1.9 | 4.6 |
| 2200 | 1.6 | 3.9 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.2 | 3.1 |
| 2500 | .9 | 2.3 |
| 2600 | .8 | 2.0 |
| 2700 | .7 | 1.8 |
| 2800 | .6 | 1.6 |
| 2900 | .5 | 1.2 |
| 3000 | .3 | .9 |
| 3100 | .4 | 1.1 |
| 3200 | .4 | 1.0 |
| PR/PH | 2.253 | |
| PR/1700 | .723 | |
| PH/1800 | .457 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.122 |

TABLE 3-b CONT. 'D

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TABLE 3-b CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 5.4 | |
| 1150 | 1.7 | |
| 1200 | 8.8 | |
| 1253 | 5.2 | |
| 1300 | 9.2 | |
| 1356 | 5.5 | |
| 1400 | 8.7 | |
| 1440 | 6.2 | |
| 1500 | 8.0 | |
| 1551 | .2 | |
| 1600 | 8.2 | 19.9 |
| 1670 | 4.0 | 9.8 |
| 1700 | 5.5 | 13.4 |
| 1780 | 1.9 | 4.6 |
| 1800 | 3.9 | 9.5 |
| 1851 | 1.2 | 2.9 |
| 1900 | 3.1 | 7.6 |
| 2000 | 2.3 | 5.7 |
| 2100 | 1.9 | 4.7 |
| 2200 | 1.6 | 3.9 |
| 2300 | 1.4 | 3.3 |
| 2400 | 1.2 | 3.0 |
| 2500 | .9 | 2.2 |
| 2600 | .8 | 1.9 |
| 2700 | .7 | 1.6 |
| 2800 | .8 | 1.9 |
| 2900 | .5 | 1.1 |
| 3000 | .4 | 1.0 |
| 3100 | .5 | 1.2 |
| 3200 | .3 | .7 |
| PR/PH | 2.121 | |
| PR/1700 | .728 | |
| PH/1800 | .484 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.735 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.3 | |
| 1150 | 1.5 | |
| 1200 | 8.3 | |
| 1253 | 5.0 | |
| 1300 | 9.2 | |
| 1356 | 6.1 | |
| 1400 | 9.4 | |
| 1440 | 7.1 | |
| 1500 | 8.2 | |
| 1551 | 1.5 | |
| 1600 | 7.9 | 20.1 |
| 1670 | 3.9 | 10.0 |
| 1700 | 5.3 | 13.5 |
| 1780 | 1.4 | 3.6 |
| 1800 | 3.8 | 9.5 |
| 1851 | 1.3 | 3.2 |
| 1900 | 3.1 | 7.8 |
| 2000 | 2.3 | 5.8 |
| 2100 | 1.8 | 4.7 |
| 2200 | 1.5 | 3.9 |
| 2300 | 1.3 | 3.4 |
| 2400 | 1.2 | 3.0 |
| 2500 | .9 | 2.2 |
| 2600 | .8 | 2.0 |
| 2700 | .7 | 1.7 |
| 2800 | .7 | 1.9 |
| 2900 | .4 | .9 |
| 3000 | .3 | .8 |
| 3100 | .5 | 1.2 |
| 3200 | .4 | .9 |
| PR/PH | 2.746 | |
| PR/1700 | .736 | |
| PH/1800 | .380 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.131 |

TABLE 3-b CONT. 'D'

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TABLE 3-b CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.5 | |
| 1150 | .9 | |
| 1200 | 8.5 | |
| 1253 | 5.1 | |
| 1300 | 9.2 | |
| 1356 | 6.0 | |
| 1400 | 9.3 | |
| 1440 | 7.1 | |
| 1500 | 8.2 | |
| 1551 | 1.6 | |
| 1600 | 8.1 | 20.5 |
| 1670 | 4.0 | 10.2 |
| 1700 | 5.4 | 13.6 |
| 1780 | 1.5 | 3.7 |
| 1800 | 3.8 | 9.5 |
| 1851 | 1.2 | 3.1 |
| 1900 | 3.0 | 7.7 |
| 2000 | 2.3 | 5.8 |
| 2100 | 1.8 | 4.6 |
| 2200 | 1.5 | 3.8 |
| 2300 | 1.3 | 3.3 |
| 2400 | 1.2 | 2.9 |
| 2500 | .8 | 2.1 |
| 2600 | .8 | 1.9 |
| 2700 | .6 | 1.6 |
| 2800 | .6 | 1.5 |
| 2900 | .4 | 1.1 |
| 3000 | .4 | 1.1 |
| 3100 | .5 | 1.2 |
| 3200 | .3 | .9 |
| PR/PH | 2.778 | |
| PR/1700 | .745 | |
| PH/1800 | .385 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.016 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | .7 | |
| 1150 | 0.0 | |
| 1200 | 2.0 | |
| 1253 | 1.6 | |
| 1300 | 3.2 | |
| 1356 | 3.1 | |
| 1400 | 6.0 | |
| 1440 | 6.1 | |
| 1500 | 8.4 | |
| 1551 | 3.4 | |
| 1600 | 6.1 | 9.3 |
| 1670 | 6.6 | 10.0 |
| 1700 | 8.9 | 13.6 |
| 1780 | 2.6 | 3.9 |
| 1800 | 6.9 | 10.6 |
| 1851 | 2.4 | 3.7 |
| 1900 | 6.0 | 9.1 |
| 2000 | 4.6 | 7.0 |
| 2100 | 3.7 | 5.7 |
| 2200 | 3.2 | 4.8 |
| 2300 | 2.8 | 4.2 |
| 2400 | 2.4 | 3.7 |
| 2500 | 1.8 | 2.7 |
| 2600 | 1.7 | 2.5 |
| 2700 | 1.4 | 2.1 |
| 2800 | 1.4 | 2.1 |
| 2900 | .7 | 1.1 |
| 3000 | .7 | 1.1 |
| 3100 | 1.1 | 1.6 |
| 3200 | .7 | 1.1 |
| PR/PH | 2.550 | |
| PR/1700 | .737 | |
| PH/1800 | .373 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.887 |

TABLE 3-b CONT. 'D

G-142

TABLE 3-b CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | .5 | |
| 1150 | 0.0 | |
| 1200 | 2.4 | |
| 1253 | 1.9 | |
| 1300 | 3.9 | |
| 1356 | 3.6 | |
| 1400 | 6.6 | |
| 1440 | 6.4 | |
| 1500 | 8.7 | |
| 1551 | 3.5 | |
| 1600 | 6.1 | 9.8 |
| 1670 | 6.4 | 10.2 |
| 1700 | 8.7 | 14.0 |
| 1780 | 2.5 | 3.9 |
| 1800 | 6.6 | 10.6 |
| 1851 | 2.3 | 3.7 |
| 1900 | 5.6 | 9.0 |
| 2000 | 4.3 | 6.9 |
| 2100 | 3.5 | 5.6 |
| 2200 | 3.0 | 4.8 |
| 2300 | 2.6 | 4.1 |
| 2400 | 2.3 | 3.6 |
| 2500 | 1.7 | 2.6 |
| 2600 | 1.5 | 2.5 |
| 2700 | 1.3 | 2.0 |
| 2800 | 1.3 | 2.1 |
| 2900 | .7 | 1.1 |
| 3000 | .7 | 1.0 |
| 3100 | 1.0 | 1.6 |
| 3200 | .7 | 1.1 |
| PR/PH | 2.601 | |
| PR/1700 | .734 | |
| PH/1800 | .371 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.798 |

TABLE 3-b CONT.'D

Summary for Cruise 2 succession:

B. Aromatic Fraction Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|--|
| 1 | *211325 | 2, 0 |
| **2 | 212325 | 2, 0 |
| 3 | 211415 | 2, 21 |
| 4 | 212415 | 2, 21 |
| 5 | 221415 | 2, 21 |
| 6 | 222415 | 2, 21 |
| 7 | 231415 | 2, 21 |
| 8 | 232415 | 2, 21 |
| 9 | 211507 | 2, 43 |
| 10 | 212507 | 2, 43 |
| 11 | 221507 | 2, 43 |
| 12 | 222507 | 2, 43 |
| 13 | 231507 | 2, 43 |
| 14 | 232507 | 2, 43 |
| 15 | 211520 | 2, 56 |
| 16 | 212520 | 2, 56 |
| 17 | 221520 | 2, 56 |
| 18 | 222520 | 2, 56 |
| 19 | 231520 | 2, 56 |
| 20 | 232520 | 2, 56 |
| 21 | 213520 | 2, Sterile Weathering Control (56-day) |
| 22 | 214520 | 2, Sterile Weathering Control (56-day) |

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

** Print out missing.

NAME PERCENT COMPOSITION

| | |
|------|---------|
| 1870 | 20.7 ✓ |
| 1905 | 12.1 |
| 1980 | 11.0 , |
| 2020 | 19.0 · |
| 2060 | 7.1 |
| 2130 | 8.4 ' , |
| 2170 | 4.6 |
| 2205 | 7.1 |
| 2250 | 2.1 |
| 2430 | 1.8 |
| 2520 | 1.6 |
| 2780 | 4.4 |

TABLE 3-b CONT. 'D

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TABLE 3-b CONT. 'D

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 19.6 ✓ |
| 1905 | 12.5 |
| 1980 | 6.8 ✓ |
| 2020 | 16.8 ✓ |
| 2060 | 6.8 |
| 2130 | 11.3 ✓ |
| 2170 | 3.7 |
| 2205 | 6.0 |
| 2250 | 1.9 |
| 2430 | 2.8 |
| 2520 | 2.5 |
| 2780 | 9.2 |

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 25.1 |
| 1905 | 12.1 |
| 1980 | 6.0 |
| 2020 | 22.2 |
| 2060 | 7.3 |
| 2130 | 12.6 |
| 2170 | 2.5 |
| 2205 | 4.1 |
| 2250 | 0.0 |
| 2430 | 3.4 |
| 2520 | 2.8 |
| 2700 | 1.7 |

TABLE 3-b CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 23.9 |
| 1905 | 14.7 |
| 1980 | 7.1 |
| 2020 | 20.5 |
| 2060 | 8.0 |
| 2130 | 9.4 |
| 2170 | 3.6 |
| 2205 | 4.7 |
| 2250 | 1.2 |
| 2430 | 2.9 |
| 2520 | 2.8 |
| 2780 | 1.2 |

TABLE 3-b CONT.'D

G-148

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 20.6 |
| 1905 | 12.5 |
| 1980 | 11.4 |
| 2020 | 19.9 |
| 2060 | 7.4 |
| 2130 | 8.9 |
| 2170 | 4.8 |
| 2205 | 7.4 |
| 2250 | 2.3 |
| 2430 | 1.9 |
| 2520 | 1.8 |
| 2780 | 1.1 |

TABLE 3-b CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE 231415-2

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 24.8 ✓ |
| 1905 | 0.0 |
| 1980 | 9.1 ✓ |
| 2020 | 23.6 ✓ |
| 2060 | 10.2 |
| 2130 | 11.1 ✓ |
| 2170 | 4.0 |
| 2205 | 6.2 |
| 2250 | 0.0 |
| 2430 | 2.9 |
| 2520 | 3.5 |
| 2780 | 4.7 |

TABLE 3-b CONT.'D

G-150

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 0.0 ✓ |
| 1905 | 32.8 |
| 1980 | 0.0 ✓ |
| 2020 | 0.0 ✓ |
| 2060 | 10.7 |
| 2130 | 29.9 ✓ |
| 2170 | 11.7 |
| 2205 | 8.5 |
| 2250 | 0.0 |
| 2430 | 2.5 |
| 2520 | 1.6 |
| 2780 | 2.3 |

TABLE 3-b CONT. 'D

G-151

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 17.3 |
| 1905 | 11.0 |
| 1980 | 3.7 |
| 2020 | 25.2 |
| 2060 | 8.8 |
| 2130 | 15.8 |
| 2170 | 3.8 |
| 2205 | 5.4 |
| 2250 | 0.0 |
| 2430 | 3.9 |
| 2520 | 5.2 |
| 2780 | 0.0 |

TABLE 3-b CONT. 'D

G-152

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 20.4 |
| 1905 | 11.8 |
| 1980 | 11.0 |
| 2020 | 19.2 |
| 2060 | 7.2 |
| 2130 | 8.7 |
| 2170 | 4.8 |
| 2205 | 7.5 |
| 2250 | 2.3 |
| 2430 | 1.3 |
| 2520 | 1.8 |
| 2780 | 4.1 |

TABLE 3-b CONT. 1D

TABLE 3-b CONT. 'D.

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 19.0 ✓ |
| 1905 | 10.8 |
| 1980 | 7.7 ✓ |
| 2020 | 20.7 ✓ |
| 2060 | 8.9 |
| 2130 | 13.7 ✓ |
| 2170 | 4.2 |
| 2205 | 5.5 |
| 2250 | 1.4 |
| 2430 | 3.7 |
| 2520 | 3.2 |
| 2780 | 1.3 |

| NAME | PERCENT COMPOSITION |
|------|---------------------|
|------|---------------------|

| | |
|------|------|
| 1870 | 19.5 |
| 1905 | 6.5 |
| 1980 | 7.7 |
| 2020 | 21.2 |
| 2060 | 9.3 |
| 2130 | 14.5 |
| 2170 | 4.6 |
| 2205 | 5.9 |
| 2250 | 1.5 |
| 2430 | 4.1 |
| 2520 | 3.7 |
| 2780 | 1.5 |

TABLE 3-b CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 19.2 |
| 1905 | 11.3 |
| 1980 | 3.3 |
| 2020 | 25.5 |
| 2060 | 8.5 |
| 2130 | 15.6 |
| 2170 | 4.4 |
| 2205 | 5.2 |
| 2250 | 0.0 |
| 2430 | 4.6 |
| 2520 | 1.1 |
| 2780 | 1.4 |

TABLE 3-b CONT.'D

G-156

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 17.9 |
| 1905 | 10.5 |
| 1980 | 3.3 |
| 2020 | 24.8 |
| 2060 | 8.6 |
| 2130 | 15.4 |
| 2170 | 3.8 |
| 2205 | 5.3 |
| 2250 | 0.0 |
| 2430 | 4.6 |
| 2520 | 3.3 |
| 2780 | 2.6 |

TABLE 3-b CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 25.8 |
| 1905 | 16.3 |
| 1980 | 7.2 |
| 2020 | 17.7 |
| 2060 | 6.9 |
| 2130 | 10.4 |
| 2170 | 3.5 |
| 2205 | 5.2 |
| 2250 | 1.7 |
| 2430 | 2.3 |
| 2520 | 2.3 |
| 2780 | .7 |

TABLE 3-b CONT. 'D

G-158

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 18.9 |
| 1905 | 8.8 |
| 1980 | 3.4 |
| 2020 | 26.8 |
| 2060 | 8.4 |
| 2130 | 15.1 |
| 2170 | 3.4 |
| 2205 | 5.4 |
| 2250 | 0.0 |
| 2430 | 4.6 |
| 2520 | 3.8 |
| 2780 | 1.3 |

TABLE 3-b CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 21.6 |
| 1905 | 13.0 |
| 1980 | 7.4 |
| 2020 | 20.4 |
| 2060 | 8.4 |
| 2130 | 12.5 |
| 2170 | 3.8 |
| 2205 | 4.7 |
| 2250 | 1.2 |
| 2430 | 3.0 |
| 2520 | 2.8 |
| 2780 | 1.2 |

TABLE 3-b CONT. 'D

G-160

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 21.4 |
| 1905 | 13.3 |
| 1980 | 6.9 |
| 2020 | 20.3 |
| 2060 | 8.0 |
| 2130 | 12.0 |
| 2170 | 3.7 |
| 2205 | 4.9 |
| 2250 | 1.2 |
| 2430 | 3.3 |
| 2520 | 3.0 |
| 2780 | 2.0 |

TABLE 3-b CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 21.5 |
| 1905 | 12.0 |
| 1980 | 6.5 |
| 2020 | 18.4 |
| 2060 | 7.5 |
| 2130 | 8.9 |
| 2170 | 3.5 |
| 2205 | 4.8 |
| 2250 | 0.0 |
| 2430 | 2.9 |
| 2520 | 2.8 |
| 2780 | 11.0 |

TABLE 3-b CONT.'D

G-162

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 23.6 / |
| 1905 | 0.0 |
| 1980 | 9.2 / |
| 2020 | 23.9 / |
| 2060 | 10.6 |
| 2130 | 12.1 / |
| 2170 | 4.3 |
| 2205 | 6.4 |
| 2250 | 0.0 |
| 2430 | 3.3 |
| 2520 | 4.2 |
| 2780 | 2.6 |

TABLE 3-b CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 16.8 |
| 1905 | 4.1 |
| 1980 | 5.6 |
| 2020 | 18.7 |
| 2060 | 10.5 |
| 2130 | 16.3 |
| 2170 | 5.4 |
| 2205 | 7.1 |
| 2250 | 0.0 |
| 2430 | 6.4 |
| 2520 | 6.1 |
| 2780 | 2.9 |

TABLE 3.b CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 13.1 |
| 1905 | 3.3 |
| 1980 | 4.4 |
| 2020 | 14.1 |
| 2060 | 7.5 |
| 2130 | 11.3 |
| 2170 | 3.4 |
| 2205 | 5.0 |
| 2250 | 0.0 |
| 2430 | 2.9 |
| 2520 | 4.4 |
| 2780 | 30.5 |

TABLE 3-b CONT. 'D

TABLE 3-c

Summary for Cruise 3 succession:A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|------------------|
| 1 | *311427 | 1, 0 |
| 2 | 312427 | 1, 0 |
| 3 | 311507 | 1, 10 |
| 4 | 312507 | 1, 10 |
| 5 | 321507 | 1, 10 |
| 6 | 322507 | 1, 10 |
| 7 | 331507 | 1, 10 |
| 8 | 332507 | 1, 10 |
| 9 | 311520 | 1, 23 |
| 10 | 312520 | 1, 23 |
| 11 | 321520 | 1, 23 |
| 12 | 322520 | 1, 23 |
| 13 | 331520 | 1, 23 |
| 14 | 332520 | 1, 23 |
| 15 | 311603 | 1, 37 |
| 16 | 312603 | 1, 37 |
| 17 | 321603 | 1, 37 |
| 18 | 322603 | 1, 37 |
| 19 | 331603 | 1, 37 |
| 20 | 332603 | 1, 37 |

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | .5 | |
| 1150 | .8 | |
| 1200 | 4.8 | |
| 1253 | 4.2 | |
| 1300 | 8.2 | |
| 1356 | 6.2 | |
| 1400 | 9.9 | |
| 1440 | 7.6 | |
| 1500 | 9.1 | |
| 1551 | 3.2 | |
| 1600 | 9.7 | 21.4 |
| 1670 | 4.4 | 9.6 |
| 1700 | 6.1 | 13.4 |
| 1780 | 1.6 | 3.5 |
| 1800 | 4.3 | 9.4 |
| 1851 | 1.4 | 3.1 |
| 1900 | 3.5 | 7.7 |
| 2000 | 2.6 | 5.7 |
| 2100 | 2.1 | 4.6 |
| 2200 | 1.8 | 3.9 |
| 2300 | 1.5 | 3.3 |
| 2400 | 1.3 | 2.9 |
| 2500 | 1.0 | 2.2 |
| 2600 | .9 | 2.0 |
| 2700 | .7 | 1.6 |
| 2800 | .7 | 1.5 |
| 2900 | .5 | 1.1 |
| 3000 | .5 | 1.2 |
| 3100 | .6 | 1.2 |
| 3200 | .4 | .8 |
| PR/PH | 2.715 | |
| PR/1700 | .716 | |
| PH/1800 | .378 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.374 |

TABLE 3.c CONT.'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE 312427-1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 1.0 | |
| 1150 | .8 | |
| 1200 | 5.0 | |
| 1253 | 4.2 | |
| 1300 | 8.3 | |
| 1356 | 6.2 | |
| 1400 | 9.9 | |
| 1440 | 7.5 | |
| 1500 | 9.1 | |
| 1551 | 3.1 | |
| 1600 | 9.7 | 21.7 |
| 1670 | 4.4 | 9.7 |
| 1700 | 6.1 | 13.6 |
| 1780 | 1.6 | 3.6 |
| 1800 | 4.3 | 9.6 |
| 1851 | 1.4 | 3.1 |
| 1900 | 3.6 | 8.0 |
| 2000 | 2.7 | 6.0 |
| 2100 | 2.2 | 4.8 |
| 2200 | 1.8 | 4.1 |
| 2300 | 1.6 | 3.5 |
| 2400 | 1.4 | 3.2 |
| 2500 | 1.0 | 2.3 |
| 2600 | 1.0 | 2.1 |
| 2700 | .8 | 1.7 |
| 2800 | .7 | 1.6 |
| 2900 | .5 | 1.2 |
| 3000 | 0.0 | 0.0 |
| 3100 | 0.0 | 0.0 |
| 3200 | 0.0 | 0.0 |
| PR/PH | 2.725 | |
| PR/1700 | .715 | |
| PH/1800 | .374 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.275 |

TABLE 3-c CONT.'D

G-168

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.8 | |
| 1150 | 1.2 | |
| 1200 | 8.6 | |
| 1253 | 5.2 | |
| 1300 | 9.2 | |
| 1356 | 6.0 | |
| 1400 | 9.1 | |
| 1440 | 6.8 | |
| 1500 | 8.0 | |
| 1551 | 1.5 | |
| 1600 | 7.9 | 20.0 |
| 1670 | 4.0 | 10.1 |
| 1700 | 5.4 | 13.5 |
| 1780 | 1.5 | 3.8 |
| 1800 | 3.8 | 9.6 |
| 1851 | 1.3 | 3.2 |
| 1900 | 3.1 | 7.8 |
| 2000 | 2.3 | 5.8 |
| 2100 | 1.8 | 4.6 |
| 2200 | 1.5 | 3.9 |
| 2300 | 1.3 | 3.4 |
| 2400 | 1.2 | 3.0 |
| 2500 | .9 | 2.3 |
| 2600 | .8 | 2.1 |
| 2700 | .7 | 1.7 |
| 2800 | .6 | 1.6 |
| 2900 | .4 | .9 |
| 3000 | .3 | .9 |
| 3100 | .5 | 1.2 |
| 3200 | .4 | .9 |
| PR/PH | 2.660 | |
| PR/1700 | .748 | |
| PH/1800 | .396 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.976 |

TABLE 3-c CONT.'D.

G-170

TABLE 3-c CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.4 | |
| 1150 | 1.2 | |
| 1200 | 8.2 | |
| 1253 | 4.8 | |
| 1300 | 8.7 | |
| 1356 | 5.8 | |
| 1400 | 9.0 | |
| 1440 | 6.9 | |
| 1500 | 8.1 | |
| 1551 | 1.5 | |
| 1600 | 8.3 | 20.1 |
| 1670 | 4.2 | 10.2 |
| 1700 | 5.6 | 13.5 |
| 1780 | 1.6 | 3.9 |
| 1800 | 4.0 | 9.7 |
| 1851 | 1.3 | 3.2 |
| 1900 | 3.2 | 7.8 |
| 2000 | 2.4 | 5.9 |
| 2100 | 1.9 | 4.6 |
| 2200 | 1.6 | 3.9 |
| 2300 | 1.4 | 3.3 |
| 2400 | 1.2 | 2.9 |
| 2500 | .9 | 2.1 |
| 2600 | .8 | 1.9 |
| 2700 | .6 | 1.5 |
| 2800 | .6 | 1.5 |
| 2900 | .4 | 1.0 |
| 3000 | .4 | 1.0 |
| 3100 | .5 | 1.1 |
| 3200 | .4 | .9 |
| PR/PH | 2.639 | |
| PR/1700 | .751 | |
| PH/1800 | .398 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.910 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 0.0 | |
| 1200 | 0.0 | |
| 1253 | 7.2 | |
| 1300 | 12.2 | |
| 1356 | 7.2 | |
| 1400 | 11.1 | |
| 1440 | 8.3 | |
| 1500 | 8.1 | |
| 1551 | .2 | |
| 1600 | 9.3 | 20.3 |
| 1670 | 4.7 | 10.3 |
| 1700 | 6.1 | 13.4 |
| 1780 | 2.1 | 4.7 |
| 1800 | 4.3 | 9.4 |
| 1851 | 1.4 | 3.1 |
| 1900 | 3.4 | 7.4 |
| 2000 | 2.5 | 5.5 |
| 2100 | 2.1 | 4.5 |
| 2200 | 1.7 | 3.8 |
| 2300 | 1.5 | 3.3 |
| 2400 | 1.3 | 2.9 |
| 2500 | 1.2 | 2.6 |
| 2600 | 1.0 | 2.1 |
| 2700 | .7 | 1.6 |
| 2800 | .8 | 1.8 |
| 2900 | .4 | .9 |
| 3000 | .4 | .8 |
| 3100 | .5 | 1.1 |
| 3200 | .3 | .7 |
| PR/PH | 2.192 | |
| PR/1700 | .768 | |
| PH/1800 | .501 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.480 |

TABLE 3-c CONT. 'D

TABLE 3-c CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.4 | |
| 1150 | 1.3 | |
| 1200 | 7.1 | |
| 1253 | 4.4 | |
| 1300 | 7.8 | |
| 1356 | 5.1 | |
| 1400 | 8.2 | |
| 1440 | 6.3 | |
| 1500 | 8.1 | |
| 1551 | 2.6 | |
| 1600 | 8.7 | 19.4 |
| 1670 | 4.5 | 10.0 |
| 1700 | 6.0 | 13.5 |
| 1780 | 2.1 | 4.7 |
| 1800 | 4.3 | 9.7 |
| 1851 | 1.4 | 3.1 |
| 1900 | 3.5 | 7.8 |
| 2000 | 2.6 | 5.8 |
| 2100 | 2.1 | 4.8 |
| 2200 | 1.7 | 3.9 |
| 2300 | 1.5 | 3.4 |
| 2400 | 1.4 | 3.1 |
| 2500 | 1.0 | 2.2 |
| 2600 | .9 | 2.0 |
| 2700 | .7 | 1.6 |
| 2800 | .8 | 1.8 |
| 2900 | .4 | .9 |
| 3000 | .3 | .7 |
| 3100 | .5 | 1.1 |
| 3200 | .3 | .6 |
| PR/PH | 2.120 | |
| PR/1700 | .746 | |
| PH/1800 | .489 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.554 |

TABLE 3-c CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 1.4 | |
| 1150 | 1.0 | |
| 1200 | 5.5 | |
| 1253 | 4.8 | |
| 1300 | 8.5 | |
| 1356 | 6.0 | |
| 1400 | 9.8 | |
| 1440 | 7.7 | |
| 1500 | 9.0 | |
| 1551 | .3 | |
| 1600 | 9.4 | 20.3 |
| 1670 | 4.8 | 10.4 |
| 1700 | 6.3 | 13.6 |
| 1780 | 2.2 | 4.8 |
| 1800 | 4.4 | 9.6 |
| 1851 | 1.4 | 3.0 |
| 1900 | 3.5 | 7.6 |
| 2000 | 2.6 | 5.6 |
| 2100 | 2.1 | 4.6 |
| 2200 | 1.8 | 3.8 |
| 2300 | 1.5 | 3.3 |
| 2400 | 1.3 | 2.8 |
| 2500 | 1.0 | 2.1 |
| 2600 | .9 | 1.9 |
| 2700 | .7 | 1.4 |
| 2800 | .7 | 1.6 |
| 2900 | .5 | 1.1 |
| 3000 | .3 | .7 |
| 3100 | .5 | 1.1 |
| 3200 | .4 | .8 |
| PR/PH | 2.178 | |
| PR/1700 | .764 | |
| PH/1800 | .496 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.405 |

G-174

TABLE 3-c CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 1.2 | |
| 1150 | .8 | |
| 1200 | 3.9 | |
| 1253 | 3.1 | |
| 1300 | 5.5 | |
| 1356 | 38.8 | |
| 1400 | 6.3 | |
| 1440 | 4.9 | |
| 1500 | 5.8 | |
| 1551 | .2 | |
| 1600 | 6.0 | 20.2 |
| 1670 | 3.1 | 10.4 |
| 1700 | 4.0 | 13.5 |
| 1780 | 1.4 | 4.8 |
| 1800 | 2.8 | 9.5 |
| 1851 | .9 | 3.0 |
| 1900 | 2.2 | 7.5 |
| 2000 | 1.6 | 5.5 |
| 2100 | 1.3 | 4.5 |
| 2200 | 1.1 | 3.7 |
| 2300 | 1.0 | 3.3 |
| 2400 | .8 | 2.8 |
| 2500 | .6 | 2.1 |
| 2600 | .5 | 1.8 |
| 2700 | .4 | 1.4 |
| 2800 | .6 | 2.1 |
| 2900 | .3 | .9 |
| 3000 | .3 | 1.0 |
| 3100 | .3 | .9 |
| 3200 | .3 | 1.0 |
| PR/PH | 2.179 | |
| PR/1700 | .769 | |
| PH/1800 | .502 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.409 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 5.9 | |
| 1150 | 2.2 | |
| 1200 | 9.2 | |
| 1253 | 5.6 | |
| 1300 | 9.4 | |
| 1356 | 5.8 | |
| 1400 | 8.9 | |
| 1440 | 6.8 | |
| 1500 | 8.0 | |
| 1551 | .2 | |
| 1600 | 7.8 | 20.6 |
| 1670 | 4.0 | 10.5 |
| 1700 | 5.2 | 13.6 |
| 1780 | 1.8 | 4.8 |
| 1800 | 3.6 | 9.5 |
| 1851 | 1.2 | 3.0 |
| 1900 | 2.9 | 7.5 |
| 2000 | 2.1 | 5.5 |
| 2100 | 1.7 | 4.5 |
| 2200 | 1.4 | 3.7 |
| 2300 | 1.2 | 3.2 |
| 2400 | 1.1 | 2.8 |
| 2500 | .8 | 2.0 |
| 2600 | .7 | 1.8 |
| 2700 | .6 | 1.5 |
| 2800 | .7 | 1.8 |
| 2900 | .4 | 1.0 |
| 3000 | .3 | .8 |
| 3100 | .4 | 1.0 |
| 3200 | .2 | .6 |
| PR/PH | 2.186 | |
| PR/1700 | .770 | |
| PH/1800 | .503 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.351 |

TABLE 3-c CONT. 'D

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TABLE 3-c CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 5.8 | |
| 1150 | 2.3 | |
| 1200 | 9.3 | |
| 1253 | 5.7 | |
| 1300 | 9.6 | |
| 1356 | 5.9 | |
| 1400 | 9.1 | |
| 1440 | 6.8 | |
| 1500 | 7.8 | |
| 1551 | .2 | |
| 1600 | 7.8 | 20.8 |
| 1670 | 3.8 | 10.3 |
| 1700 | 5.1 | 13.6 |
| 1780 | 1.8 | 4.7 |
| 1800 | 3.5 | 9.4 |
| 1851 | 1.1 | 3.0 |
| 1900 | 2.8 | 7.5 |
| 2000 | 2.1 | 5.5 |
| 2100 | 1.7 | 4.5 |
| 2200 | 1.4 | 3.8 |
| 2300 | 1.2 | 3.3 |
| 2400 | 1.1 | 2.9 |
| 2500 | .8 | 2.1 |
| 2600 | .7 | 1.8 |
| 2700 | .6 | 1.5 |
| 2800 | .7 | 1.8 |
| 2900 | .4 | 1.0 |
| 3000 | .3 | .8 |
| 3100 | .4 | 1.1 |
| 3200 | .3 | .8 |
| PR/PH | 2.184 | |
| PR/1700 | .756 | |
| PH/1800 | .498 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.484 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 4.9 | |
| 1150 | 1.0 | |
| 1200 | 8.6 | |
| 1253 | 5.2 | |
| 1300 | 9.6 | |
| 1356 | 6.2 | |
| 1400 | 9.6 | |
| 1440 | 7.2 | |
| 1500 | 8.4 | |
| 1551 | 1.7 | |
| 1600 | 4.7 | 12.5 |
| 1670 | 4.0 | 10.7 |
| 1700 | 5.5 | 14.7 |
| 1780 | 1.5 | 3.9 |
| 1800 | 3.9 | 10.3 |
| 1851 | 1.3 | 3.4 |
| 1900 | 3.2 | 8.5 |
| 2000 | 2.4 | 6.4 |
| 2100 | 1.9 | 5.1 |
| 2200 | 1.6 | 4.3 |
| 2300 | 1.4 | 3.8 |
| 2400 | 1.3 | 3.4 |
| 2500 | .9 | 2.5 |
| 2600 | .9 | 2.3 |
| 2700 | .7 | 1.9 |
| 2800 | .7 | 1.9 |
| 2900 | .4 | 1.0 |
| 3000 | .4 | 1.0 |
| 3100 | .5 | 1.4 |
| 3200 | .4 | .9 |
| PR/PH | 2.764 | |
| PR/1700 | .730 | |
| PH/1800 | .376 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.614 |

TABLE 3-c CONT. 'D

G-177

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--------------|----------------------------------|----------------------------|
|--------------|----------------------------------|----------------------------|

| | | |
|------|-----|------|
| 1100 | 4.5 | |
| 1150 | .9 | |
| 1200 | 8.3 | |
| 1253 | 5.2 | |
| 1300 | 9.4 | |
| 1356 | 6.3 | |
| 1400 | 9.7 | |
| 1440 | 7.4 | |
| 1500 | 8.7 | |
| 1551 | 1.7 | |
| 1600 | 4.8 | 12.7 |
| 1670 | 4.2 | 11.2 |
| 1700 | 5.7 | 15.2 |
| 1780 | 1.5 | 4.0 |
| 1800 | 4.0 | 10.5 |
| 1851 | 1.3 | 3.4 |
| 1900 | 3.2 | 8.5 |
| 2000 | 2.4 | 6.4 |
| 2100 | 1.9 | 5.1 |
| 2200 | 1.6 | 4.2 |
| 2300 | 1.4 | 3.7 |
| 2400 | 1.2 | 3.3 |
| 2500 | .9 | 2.4 |
| 2600 | .8 | 2.2 |
| 2700 | .7 | 1.8 |
| 2800 | .6 | 1.6 |
| 2900 | .3 | .8 |
| 3000 | .3 | .8 |
| 3100 | .6 | 1.6 |
| 3200 | .3 | .7 |

| | | |
|--|-------|--|
| PR/PH | 2.786 | |
| PR/1700 | .736 | |
| PH/1800 | .382 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 5.366 | |

G-178

TABLE 3-c CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 3.9 | |
| 1150 | 0.0 | |
| 1200 | 7.8 | |
| 1253 | 5.1 | |
| 1300 | 9.3 | |
| 1356 | 6.4 | |
| 1400 | 10.0 | |
| 1440 | 7.5 | |
| 1500 | 8.9 | |
| 1551 | 1.7 | |
| 1600 | 4.9 | 12.6 |
| 1670 | 4.2 | 10.6 |
| 1700 | 5.8 | 14.8 |
| 1780 | 1.5 | 3.8 |
| 1800 | 4.1 | 10.4 |
| 1851 | 1.3 | 3.4 |
| 1900 | 3.4 | 8.6 |
| 2000 | 2.5 | 6.5 |
| 2100 | 2.0 | 5.2 |
| 2200 | 1.7 | 4.4 |
| 2300 | 1.5 | 3.8 |
| 2400 | 1.3 | 3.3 |
| 2500 | 1.0 | 2.4 |
| 2600 | .9 | 2.3 |
| 2700 | .7 | 1.9 |
| 2800 | .7 | 1.9 |
| 2900 | .4 | 1.0 |
| 3000 | .4 | .9 |
| 3100 | .5 | 1.4 |
| 3200 | .4 | .9 |
| PR/PH | 2.806 | |
| PR/1700 | .715 | |
| PH/1800 | .364 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.724 |

TABLE 3-c CONT. 'D

NAME

PERCENT COMPOSITION
1100-3200
PERCENTAGE OF
1600-3200

| | | |
|------|-----|------|
| 1100 | 4.5 | |
| 1150 | .8 | |
| 1200 | 7.9 | |
| 1253 | 5.0 | |
| 1300 | 9.0 | |
| 1356 | 6.0 | |
| 1400 | 9.3 | |
| 1440 | 7.1 | |
| 1500 | 8.3 | |
| 1551 | 1.6 | |
| 1600 | 8.3 | 20.5 |
| 1670 | 4.1 | 10.1 |
| 1700 | 5.6 | 13.9 |
| 1780 | 1.5 | 3.7 |
| 1800 | 3.9 | 9.7 |
| 1851 | 1.3 | 3.2 |
| 1900 | 3.2 | 7.8 |
| 2000 | 2.4 | 5.8 |
| 2100 | 1.9 | 4.6 |
| 2200 | 1.5 | 3.8 |
| 2300 | 1.3 | 3.3 |
| 2400 | 1.2 | 2.9 |
| 2500 | .9 | 2.1 |
| 2600 | .8 | 1.9 |
| 2700 | .7 | 1.6 |
| 2800 | .5 | 1.3 |
| 2900 | .5 | 1.1 |
| 3000 | .4 | .9 |
| 3100 | .5 | 1.1 |
| 3200 | .2 | .6 |

PR/PH 2.754

PR/1700 .732

PH/1800 .381

SUM OF THE N-ALKANES 1600-3200 / PR+PH 6.001

TABLE 3-c CONT.'D

G-180

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 5.3 | |
| 1150 | 0.0 | |
| 1200 | 8.9 | |
| 1253 | 5.3 | |
| 1300 | 9.1 | |
| 1356 | 5.6 | |
| 1400 | 8.9 | |
| 1440 | 6.5 | |
| 1500 | 8.2 | |
| 1551 | .3 | |
| 1600 | 8.4 | 19.9 |
| 1670 | 4.2 | 10.0 |
| 1700 | 5.6 | 13.4 |
| 1780 | 2.0 | 4.7 |
| 1800 | 4.0 | 9.6 |
| 1851 | 1.3 | 3.0 |
| 1900 | 3.2 | 7.6 |
| 2000 | 2.4 | 5.7 |
| 2100 | 1.9 | 4.6 |
| 2200 | 1.6 | 3.8 |
| 2300 | 1.4 | 3.3 |
| 2400 | 1.2 | 2.9 |
| 2500 | .9 | 2.2 |
| 2600 | .8 | 1.8 |
| 2700 | .6 | 1.5 |
| 2800 | .9 | 2.2 |
| 2900 | .4 | 1.0 |
| 3000 | .3 | .7 |
| 3100 | .4 | 1.0 |
| 3200 | .4 | 1.0 |
| PR/PH | 2.126 | |
| PR/1700 | .744 | |
| PH/1800 | .489 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.616 |

TABLE 3-c CONT. 'D

G-181

G-182

TABLE 3-c CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 5.1 | |
| 1150 | 2.2 | |
| 1200 | 9.2 | |
| 1253 | 5.6 | |
| 1300 | 9.1 | |
| 1356 | 5.7 | |
| 1400 | 9.1 | |
| 1440 | 6.4 | |
| 1500 | 7.9 | |
| 1551 | .2 | |
| 1600 | 7.9 | 20.1 |
| 1670 | 4.0 | 10.2 |
| 1700 | 5.1 | 12.8 |
| 1780 | 1.8 | 4.5 |
| 1800 | 3.7 | 9.3 |
| 1851 | 1.4 | 3.5 |
| 1900 | 2.8 | 7.1 |
| 2000 | 2.1 | 5.4 |
| 2100 | 1.7 | 4.4 |
| 2200 | 1.5 | 3.9 |
| 2300 | 1.4 | 3.4 |
| 2400 | 1.3 | 3.3 |
| 2500 | .9 | 2.3 |
| 2600 | .8 | 2.1 |
| 2700 | .6 | 1.6 |
| 2800 | .9 | 2.3 |
| 2900 | .4 | 1.0 |
| 3000 | .3 | .8 |
| 3100 | .4 | 1.0 |
| 3200 | .4 | 1.0 |
| PR/PH | 2.274 | |
| PR/1700 | .798 | |
| PH/1800 | .484 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.563 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 1.1 | |
| 1150 | .4 | |
| 1200 | 4.4 | |
| 1253 | 4.3 | |
| 1300 | 7.8 | |
| 1356 | 6.1 | |
| 1400 | 9.5 | |
| 1440 | 7.6 | |
| 1500 | 9.1 | |
| 1551 | 3.2 | |
| 1600 | 9.8 | 21.1 |
| 1670 | 4.5 | 9.6 |
| 1700 | 6.1 | 13.1 |
| 1780 | 1.9 | 4.1 |
| 1800 | 4.3 | 9.2 |
| 1851 | 1.4 | 3.0 |
| 1900 | 3.5 | 7.6 |
| 2000 | 2.7 | 5.7 |
| 2100 | 2.1 | 4.6 |
| 2200 | 1.8 | 3.9 |
| 2300 | 1.6 | 3.4 |
| 2400 | 1.4 | 3.0 |
| 2500 | 1.0 | 2.2 |
| 2600 | .9 | 2.0 |
| 2700 | .8 | 1.6 |
| 2800 | .7 | 1.5 |
| 2900 | .5 | 1.2 |
| 3000 | .5 | 1.1 |
| 3100 | .6 | 1.2 |
| 3200 | .4 | .9 |
| PR/PH | 2.335 | |
| PR/1700 | .731 | |
| PH/1800 | .448 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 6.084 |

TABLE 3-C CONT. 'D

G-183

RELATIVE UNCORRECTED HYDROCARBON DISTRIBUTION FOR SAMPLE 22000

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--------------|----------------------------------|----------------------------|
| 1100 | 4.9 | |
| 1150 | 1.8 | |
| 1200 | 8.8 | |
| 1253 | 5.4 | |
| 1300 | 9.3 | |
| 1356 | 5.7 | |
| 1400 | 8.9 | |
| 1440 | 6.6 | |
| 1500 | 8.3 | |
| 1551 | .3 | |
| 1600 | 8.2 | 20.4 |
| 1670 | 4.1 | 10.1 |
| 1700 | 5.4 | 13.6 |
| 1780 | 1.9 | 4.7 |
| 1800 | 3.8 | 9.5 |
| 1851 | 1.2 | 3.0 |
| 1900 | 3.0 | 7.5 |
| 2000 | 2.2 | 5.5 |
| 2100 | 1.8 | 4.5 |
| 2200 | 1.5 | 3.7 |
| 2300 | 1.3 | 3.2 |
| 2400 | 1.3 | 3.3 |
| 2500 | .8 | 2.1 |
| 2600 | .8 | 1.9 |
| 2700 | .6 | 1.5 |
| 2800 | .7 | 1.7 |
| 2900 | .5 | 1.2 |
| 3000 | .3 | .8 |
| 3100 | .4 | 1.0 |
| 3200 | .3 | .7 |

TABLE 3-c CONT.'D

| | | |
|--|-------|--|
| PR/PH | 2.140 | |
| PR/1700 | .746 | |
| PH/1800 | .496 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 5.541 | |

G-184

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 0.0 | |
| 1200 | 0.0 | |
| 1253 | 0.0 | |
| 1300 | 11.7 | |
| 1356 | 7.7 | |
| 1400 | 11.8 | |
| 1440 | 8.6 | |
| 1500 | 9.9 | |
| 1551 | .2 | |
| 1600 | 10.1 | 20.3 |
| 1670 | 5.2 | 10.3 |
| 1700 | 6.6 | 13.2 |
| 1780 | 2.3 | 4.6 |
| 1800 | 4.7 | 9.4 |
| 1851 | 1.7 | 3.4 |
| 1900 | 3.7 | 7.4 |
| 2000 | 2.7 | 5.5 |
| 2100 | 2.3 | 4.5 |
| 2200 | 1.9 | 3.9 |
| 2300 | 1.7 | 3.4 |
| 2400 | 1.4 | 2.9 |
| 2500 | 1.1 | 2.2 |
| 2600 | 1.0 | 1.9 |
| 2700 | .8 | 1.5 |
| 2800 | 1.0 | 2.0 |
| 2900 | .5 | 1.0 |
| 3000 | .4 | .7 |
| 3100 | .6 | 1.2 |
| 3200 | .4 | .7 |
| PR/PH | 2.230 | |
| PR/1700 | .782 | |
| PH/1800 | .491 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.465 |

TABLE 3-c CONT. 'D

G-186

TABLE 3-c CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 |
|--|----------------------------------|----------------------------|
| 1100 | 0.0 | |
| 1150 | 2.8 | |
| 1200 | 9.7 | |
| 1253 | 6.0 | |
| 1300 | 10.3 | |
| 1356 | 6.1 | |
| 1400 | 10.0 | |
| 1440 | 7.1 | |
| 1500 | 3.5 | |
| 1551 | 1.7 | |
| 1600 | 8.6 | 20.0 |
| 1670 | 4.4 | 10.3 |
| 1700 | 5.6 | 13.1 |
| 1780 | 2.0 | 4.6 |
| 1800 | 4.1 | 9.6 |
| 1851 | 1.5 | 3.5 |
| 1900 | 3.2 | 7.4 |
| 2000 | 2.4 | 5.6 |
| 2100 | 2.0 | 4.6 |
| 2200 | 1.7 | 3.9 |
| 2300 | 1.4 | 3.3 |
| 2400 | 1.2 | 2.9 |
| 2500 | 1.0 | 2.2 |
| 2600 | .8 | 1.9 |
| 2700 | .7 | 1.5 |
| 2800 | .8 | 1.9 |
| 2900 | .4 | 1.0 |
| 3000 | .3 | .8 |
| 3100 | .5 | 1.1 |
| 3200 | .4 | .8 |
| PR/PH | 2.259 | |
| PR/1700 | .789 | |
| PH/1800 | .476 | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 5.490 |

TABLE 3-c CONT.'D

Summary for Cruise 3 succession:B. Aromatic Fraction Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|------------------|
| 1 | 311427 | 2, 0 |
| 2 | 312427 | 2, 0 |
| 3 | 311507 | 2, 10 |
| 4 | 312507 | 2, 10 |
| 5 | 321507 | 2, 10 |
| 6 | 322507 | 2, 10 |
| 7 | 331507 | 2, 10 |
| 8 | 332507 | 2, 10 |
| 9 | 311520 | 2, 23 |
| 10 | 312520 | 2, 23 |
| **11 | 321520 | 2, 23 |
| **12 | 322520 | 2, 23 |
| 13 | 331520 | 2, 23 |
| 14 | 332520 | 2, 23 |
| 15 | 311603 | 2, 37 |
| 16 | 312603 | 2, 37 |
| 17 | 321603 | 2, 37 |
| 18 | 322603 | 2, 37 |
| 19 | 331603 | 3, 37 |
| 20 | 332603 | 2, 37 |

* For all samples the first digit is the cruise, the second is the station, the third is the replicate and other numbers are dates or sample treatments.

** Print out missing.

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 19.5 ✓ |
| 1905 | 11.0 |
| 1980 | 7.0 ✓ |
| 2020 | 20.7 ✓ |
| 2060 | 8.5 |
| 2130 | 10.8 ✓ |
| 2170 | 4.2 |
| 2205 | 5.6 |
| 2250 | 1.4 |
| 2430 | 3.6 |
| 2520 | 3.5 |
| 2780 | 4.3 |

TABLE 3-c CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 18.4 |
| 1905 | 9.8 |
| 1980 | 7.5 |
| 2020 | 20.3 |
| 2060 | 9.0 |
| 2130 | 14.1 |
| 2170 | 4.3 |
| 2205 | 5.9 |
| 2250 | 1.7 |
| 2430 | 3.0 |
| 2520 | 3.8 |
| 2780 | 2.2 |

TABLE 3-c CONT.'D

G-190

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 19.1 ✓ |
| 1905 | 12.8 |
| 1980 | 3.2 ✓ |
| 2020 | 26.6 ✓ |
| 2060 | 8.5 |
| 2130 | 14.2 ✓ |
| 2170 | 3.2 |
| 2205 | 5.0 |
| 2250 | 0.0 |
| 2430 | 4.4 |
| 2520 | 2.9 |
| 2780 | 0.0 |

TABLE 3-c CONT. 'D

TABLE 3-c CONT. 'D

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 20.4 / |
| 1905 | 12.9 |
| 1980 | 6.3 / |
| 2020 | 19.6 |
| 2060 | 7.9 |
| 2130 | 11.8 / |
| 2170 | 3.6 |
| 2205 | 4.9 |
| 2250 | 1.2 |
| 2430 | 3.3 |
| 2520 | 3.2 |
| 2780 | 4.8 |

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 18.8 |
| 1905 | 11.2 |
| 1980 | 10.6 |
| 2020 | 19.6 |
| 2060 | 7.0 |
| 2130 | 8.1 |
| 2170 | 4.5 |
| 2205 | 9.1 |
| 2250 | 2.7 |
| 2430 | 2.5 |
| 2520 | 1.9 |
| 2780 | 4.0 |

TABLE 3-c CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 19.5 / |
| 1905 | 12.7 |
| 1980 | 4.2 / |
| 2020 | 25.1 / |
| 2060 | 8.2 |
| 2130 | 14.3 / |
| 2170 | 3.7 |
| 2205 | 4.7 |
| 2250 | 0.0 |
| 2430 | 4.2 |
| 2520 | 2.5 |
| 2780 | 1.0 |

TABLE 3-c CONT.'D

G-194

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 15.9 / |
| 1905 | 7.1 |
| 1980 | 10.0 / |
| 2020 | 19.2 |
| 2060 | 7.2 |
| 2130 | 9.3 / |
| 2170 | 5.5 |
| 2205 | 11.4 |
| 2250 | 3.7 |
| 2430 | 3.3 |
| 2520 | 2.4 |
| 2780 | 5.0 |

TABLE 3-c CONT. 'D

TABLE 3-c CONT. 'D

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 15.6 |
| 1905 | 6.6 |
| 1980 | 9.3 |
| 2020 | 17.2 |
| 2060 | 6.7 |
| 2130 | 9.0 |
| 2170 | 5.5 |
| 2205 | 8.5 |
| 2250 | 2.7 |
| 2430 | 2.3 |
| 2520 | 2.0 |
| 2780 | 14.5 |

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 20.9 |
| 1905 | 10.6 |
| 1980 | 4.5 |
| 2020 | 24.0 |
| 2060 | 7.9 |
| 2130 | 14.4 |
| 2170 | 4.3 |
| 2205 | 5.0 |
| 2250 | 0.0 |
| 2430 | 3.6 |
| 2520 | 3.4 |
| 2780 | 1.4 |

TABLE 3-c CONT. 'D

G-198

TABLE 3-c CONT.'D

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 17.3 / |
| 1905 | 9.7 |
| 1980 | 10.0 / |
| 2020 | 17.5 / |
| 2060 | 6.9 |
| 2130 | 8.1 / |
| 2170 | 5.1 |
| 2205 | 7.9 |
| 2250 | 2.5 |
| 2430 | 2.0 |
| 2520 | 1.9 |
| 2780 | 11.0 |

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 26.1 |
| 1905 | 0.0 |
| 1980 | 10.1 |
| 2020 | 23.0 |
| 2060 | 10.4 |
| 2130 | 11.0 |
| 2170 | 4.1 |
| 2205 | 5.5 |
| 2250 | 0.0 |
| 2430 | 3.0 |
| 2520 | 3.7 |
| 2780 | 3.1 |

TABLE 3-c CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 18.8 |
| 1905 | 9.9 |
| 1980 | 6.0 |
| 2020 | 16.6 |
| 2060 | 6.9 |
| 2130 | 8.3 |
| 2170 | 3.2 |
| 2205 | 4.6 |
| 2250 | 0.0 |
| 2430 | 1.6 |
| 2520 | 2.5 |
| 2780 | 21.5 |

TABLE 3-c CONT.'D

G-200

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 20.2 ✓ |
| 1905 | 11.7 |
| 1980 | 11.2 ✓ |
| 2020 | 19.8 ✓ |
| 2060 | 7.5 |
| 2130 | 9.4 ✓ |
| 2170 | 5.4 |
| 2205 | 8.3 |
| 2250 | 2.5 |
| 2430 | 1.9 |
| 2520 | 2.1 |
| 2780 | 0.0 |

TABLE 3-c CONT. 'D

G-202

TABLE 3-c CONT. 'D

| NAME | PERCENT COMPOSITION |
|------|---------------------|
| 1870 | 13.3 ✓ |
| 1905 | 10.4 |
| 1980 | 10.3 ✓ |
| 2020 | 19.0 ✓ |
| 2060 | 7.2 |
| 2130 | 9.3 |
| 2170 | 5.3 |
| 2205 | 8.9 |
| 2250 | 2.7 |
| 2430 | 2.0 |
| 2520 | 2.0 |
| 2780 | 9.6 |

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 20.2 / |
| 1905 | 7.2 |
| 1980 | 8.1 / |
| 2020 | 21.4 / |
| 2060 | 9.1 |
| 2130 | 14.3 / |
| 2170 | 4.4 |
| 2205 | 5.4 |
| 2250 | 1.4 |
| 2430 | 2.9 |
| 2520 | 3.5 |
| 2780 | 2.1 |

TABLE 3-c CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 20.5 |
| 1905 | 11.4 |
| 1980 | 7.1 |
| 2020 | 20.4 |
| 2060 | 8.3 |
| 2130 | 12.7 |
| 2170 | 4.0 |
| 2205 | 5.4 |
| 2250 | 1.4 |
| 2430 | 3.5 |
| 2520 | 3.2 |
| 2780 | 2.2 |

TABLE 3-c CONT.'D

G-204

NAME PERCENT COMPOSITION

| | |
|------|------|
| 1870 | 16.3 |
| 1905 | 12.6 |
| 1980 | 11.9 |
| 2020 | 21.7 |
| 2060 | 8.2 |
| 2130 | 10.7 |
| 2170 | 4.2 |
| 2205 | 6.1 |
| 2250 | 1.7 |
| 2430 | 2.7 |
| 2520 | 2.3 |
| 2780 | 1.4 |

TABLE 3-c CONT. 'D

NAME PERCENT COMPOSITION

| | |
|------|--------|
| 1870 | 20.3 / |
| 1905 | 12.8 |
| 1980 | 7.4 / |
| 2020 | 16.3 / |
| 2060 | 7.2 |
| 2130 | 11.1 / |
| 2170 | 4.1 |
| 2205 | 5.6 |
| 2250 | 1.8 |
| 2430 | 2.7 |
| 2520 | 2.7 |
| 2780 | 8.0 |

G-206

TABLE 3.c CONT.'D

TABLE 3-d

Summary for Cruise 4 succession:A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|---|
| 1 | 411 | (RUAD-1), 0 |
| 2 | 412 | (RUAD-2), 0 |
| 3 | 418 | (RUAD-8), 53 |
| 4 | 419 | (RUAD-9), 53 |
| 5 | 424 | (RUAE-4), 53 |
| 6 | 425 | (RUAE-5), 53 |
| 7 | 434 | (RUAF-4), 53 |
| 8 | 435 | (RUAF-5), 53 |
| 9 | 413 | (RUAD-3), Sterile Weather Control (53-day) |
| 10 | 414 | (RUAD-4), Sterile Weather Control (53-day) |

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAD, REPL. NO. 1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 8.2 | | 1288.069 |
| 1400 | 9.4 | | 1474.895 |
| 1440 | 7.4 | | 1165.492 |
| 1500 | 9.6 | | 1506.719 |
| 1551 | 3.2 | | 497.898 |
| 1600 | 6.8 | 10.9 | 1072.844 |
| 1670 | 4.2 | 6.8 | 668.312 |
| 1700 | 7.1 | 11.4 | 1123.703 |
| 1780 | 1.7 | 2.8 | 271.551 |
| 1800 | 6.4 | 10.2 | 1007.238 |
| 1851 | 2.1 | 3.4 | 329.673 |
| 1900 | 5.4 | 8.6 | 847.724 |
| 2000 | 4.2 | 6.8 | 665.206 |
| 2100 | 3.5 | 5.6 | 550.108 |
| 2200 | 3.3 | 5.3 | 517.816 |
| 2300 | 2.9 | 4.7 | 462.943 |
| 2400 | 2.4 | 3.8 | 371.548 |
| 2500 | 1.9 | 3.1 | 302.518 |
| 2600 | 1.9 | 3.0 | 293.932 |
| 2700 | 1.8 | 3.0 | 290.466 |
| 2800 | 1.3 | 2.0 | 197.803 |
| 2900 | 1.7 | 2.7 | 262.332 |
| 3000 | 1.4 | 2.2 | 217.892 |
| 3100 | 1.5 | 2.4 | 234.362 |
| 3200 | .9 | 1.5 | 149.300 |
| PR/PH | 2.461 | | |
| PR/1700 | .595 | | |
| PH/1800 | .270 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.116 | | |

TABLE 3.D CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE ROAD, REPL. NO. 2

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 8.3 | | 1782.234 |
| 1400 | 10.3 | | 2191.728 |
| 1440 | 7.6 | | 1631.198 |
| 1500 | 10.0 | | 2132.988 |
| 1551 | 3.4 | | 719.747 |
| 1600 | 7.1 | 11.7 | 1514.902 |
| 1670 | 4.1 | 6.7 | 868.752 |
| 1700 | 7.0 | 11.6 | 1497.618 |
| 1780 | 1.4 | 2.4 | 304.960 |
| 1800 | 5.9 | 9.8 | 1263.566 |
| 1851 | 2.1 | 3.5 | 447.112 |
| 1900 | 5.2 | 8.6 | 1104.811 |
| 2000 | 4.1 | 6.8 | 883.756 |
| 2100 | 3.3 | 5.5 | 714.544 |
| 2200 | 3.1 | 5.2 | 666.098 |
| 2300 | 2.8 | 4.6 | 599.418 |
| 2400 | 2.3 | 3.8 | 486.292 |
| 2500 | 2.0 | 3.3 | 423.542 |
| 2600 | 1.9 | 3.2 | 410.808 |
| 2700 | 1.7 | 2.8 | 360.777 |
| 2800 | 1.3 | 2.2 | 278.663 |
| 2900 | 1.5 | 2.5 | 317.775 |
| 3000 | 1.4 | 2.3 | 297.710 |
| 3100 | 1.2 | 1.9 | 246.916 |
| 3200 | 1.0 | 1.7 | 215.561 |
| PR/PH | 2.849 | | |
| PR/1700 | .580 | | |
| PH/1800 | .241 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.613 | |

TABLE 3-d CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAD, REPL. NO. 8

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 8.0 | | 1322.733 |
| 1400 | 9.4 | | 1546.998 |
| 1440 | 7.5 | | 1232.767 |
| 1500 | 9.9 | | 1633.317 |
| 1551 | 3.4 | | 558.781 |
| 1600 | 7.4 | 11.9 | 1217.896 |
| 1670 | 4.2 | 6.7 | 690.560 |
| 1700 | 7.1 | 11.4 | 1170.861 |
| 1780 | 1.5 | 2.4 | 243.695 |
| 1800 | 6.0 | 9.8 | 999.392 |
| 1851 | 2.1 | 3.3 | 340.587 |
| 1900 | 5.4 | 8.8 | 899.527 |
| 2000 | 4.3 | 6.9 | 704.105 |
| 2100 | 3.5 | 5.6 | 571.938 |
| 2200 | 3.3 | 5.3 | 542.439 |
| 2300 | 2.9 | 4.6 | 473.204 |
| 2400 | 2.3 | 3.7 | 383.807 |
| 2500 | 1.9 | 3.1 | 313.207 |
| 2600 | 1.9 | 3.1 | 318.408 |
| 2700 | 1.7 | 2.7 | 280.231 |
| 2800 | 1.3 | 2.0 | 208.708 |
| 2900 | 1.6 | 2.6 | 264.466 |
| 3000 | 1.4 | 2.2 | 228.196 |
| 3100 | 1.3 | 2.1 | 218.903 |
| 3200 | 1.0 | 1.7 | 169.812 |
| PR/PH | 2.834 | | |
| PR/1700 | .590 | | |
| PH/1800 | .244 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.596 | |

TABLE 3-D CONT. 'D

G-211

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAD, REPL. NO. 9

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 7.7 | | 1394.320 |
| 1400 | 9.5 | | 1729.372 |
| 1440 | 7.5 | | 1360.114 |
| 1500 | 10.0 | | 1808.445 |
| 1551 | 3.1 | | 570.165 |
| 1600 | 6.8 | 10.9 | 1234.404 |
| 1670 | 4.3 | 6.8 | 772.670 |
| 1700 | 7.3 | 11.7 | 1317.977 |
| 1780 | 1.4 | 2.3 | 260.621 |
| 1800 | 6.2 | 9.9 | 1121.803 |
| 1851 | 1.3 | 2.1 | 240.614 |
| 1900 | 5.5 | 8.9 | 1003.536 |
| 2000 | 4.4 | 7.0 | 791.934 |
| 2100 | 3.6 | 5.8 | 650.379 |
| 2200 | 3.4 | 5.4 | 610.986 |
| 2300 | 3.0 | 4.9 | 547.230 |
| 2400 | 2.4 | 3.9 | 437.391 |
| 2500 | 2.0 | 3.2 | 358.764 |
| 2600 | 2.0 | 3.2 | 365.911 |
| 2700 | 1.8 | 2.8 | 317.875 |
| 2800 | 1.4 | 2.2 | 248.845 |
| 2900 | 1.6 | 2.5 | 285.063 |
| 3000 | 1.5 | 2.4 | 272.636 |
| 3100 | 1.3 | 2.1 | 232.145 |
| 3200 | 1.2 | 1.9 | 211.545 |
| PR/PH | 2.965 | | |
| PR/1700 | .586 | | |
| PH/1800 | .232 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.686 | |

TABLE 3-d CONT. 'D

G-212

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAE, REPL. NO. 4

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 8.3 | | 1560.341 |
| 1400 | 8.7 | | 1645.607 |
| 1440 | 7.6 | | 1421.058 |
| 1500 | 9.6 | | 1808.313 |
| 1551 | 3.2 | | 602.508 |
| 1600 | 7.0 | 11.2 | 1323.220 |
| 1670 | 4.5 | 7.2 | 842.381 |
| 1700 | 7.3 | 11.7 | 1377.140 |
| 1780 | 1.7 | 2.7 | 318.417 |
| 1800 | 6.2 | 9.9 | 1169.901 |
| 1851 | 2.1 | 3.4 | 395.953 |
| 1900 | 5.4 | 8.7 | 1023.351 |
| 2000 | 4.2 | 6.8 | 795.651 |
| 2100 | 3.5 | 5.6 | 655.864 |
| 2200 | 3.2 | 5.2 | 609.462 |
| 2300 | 2.9 | 4.6 | 546.752 |
| 2400 | 2.3 | 3.7 | 434.142 |
| 2500 | 1.9 | 3.0 | 355.032 |
| 2600 | 1.9 | 3.1 | 361.898 |
| 2700 | 1.7 | 2.8 | 328.291 |
| 2800 | 1.3 | 2.1 | 248.662 |
| 2900 | 1.5 | 2.5 | 289.060 |
| 3000 | 1.5 | 2.4 | 280.511 |
| 3100 | 1.2 | 1.9 | 226.679 |
| 3200 | 1.0 | 1.7 | 195.490 |
| PR/PH | 2.646 | | |
| PR/1700 | .612 | | |
| PH/1800 | .272 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.805 | |

TABLE 3-D CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAE, REPL. NO. 5

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 8.5 | | 1349.816 |
| 1400 | 8.9 | | 1418.622 |
| 1440 | 7.4 | | 1182.114 |
| 1500 | 9.6 | | 1525.573 |
| 1551 | 3.5 | | 552.932 |
| 1600 | 7.3 | 11.8 | 1169.291 |
| 1670 | 4.4 | 7.1 | 703.933 |
| 1700 | 7.1 | 11.4 | 1137.045 |
| 1780 | 1.6 | 2.6 | 259.968 |
| 1800 | 6.1 | 9.8 | 976.549 |
| 1851 | 2.1 | 3.4 | 340.429 |
| 1900 | 5.4 | 8.6 | 850.755 |
| 2000 | 4.3 | 6.9 | 681.833 |
| 2100 | 3.5 | 5.6 | 552.246 |
| 2200 | 3.2 | 5.2 | 513.006 |
| 2300 | 2.8 | 4.6 | 454.541 |
| 2400 | 2.3 | 3.7 | 369.220 |
| 2500 | 1.9 | 3.0 | 300.074 |
| 2600 | 2.0 | 3.1 | 311.560 |
| 2700 | 1.7 | 2.7 | 268.870 |
| 2800 | 1.3 | 2.2 | 213.810 |
| 2900 | 1.5 | 2.4 | 240.550 |
| 3000 | 1.4 | 2.3 | 227.260 |
| 3100 | 1.2 | 1.9 | 186.680 |
| 3200 | 1.0 | 1.7 | 166.777 |

TABLE 3-d CONT. 'D

PR/PH 2.708

PR/1700 .619

PH/1800 .266

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.951

G-214

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAF, REPL. NO. 4

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 8.8 | | 1382.481 |
| 1400 | 9.0 | | 1425.094 |
| 1440 | 7.3 | | 1154.322 |
| 1500 | 9.6 | | 1510.103 |
| 1551 | 3.3 | | 526.809 |
| 1600 | 7.3 | 11.8 | 1157.689 |
| 1670 | 4.3 | 6.9 | 675.231 |
| 1700 | 7.1 | 11.4 | 1119.947 |
| 1780 | 1.5 | 2.4 | 238.638 |
| 1800 | 6.0 | 9.7 | 953.591 |
| 1851 | 2.0 | 3.3 | 322.139 |
| 1900 | 5.4 | 8.7 | 848.947 |
| 2000 | 4.2 | 6.8 | 668.499 |
| 2100 | 3.5 | 5.6 | 549.462 |
| 2200 | 3.2 | 5.2 | 510.613 |
| 2300 | 2.9 | 4.6 | 450.282 |
| 2400 | 2.3 | 3.7 | 363.381 |
| 2500 | 2.0 | 3.2 | 310.622 |
| 2600 | 1.9 | 3.1 | 307.190 |
| 2700 | 1.7 | 2.7 | 263.535 |
| 2800 | 1.3 | 2.1 | 201.695 |
| 2900 | 1.5 | 2.5 | 244.229 |
| 3000 | 1.5 | 2.4 | 233.222 |
| 3100 | 1.4 | 2.3 | 226.031 |
| 3200 | .9 | 1.5 | 149.587 |
| PR/PH | 2.830 | | |
| PR/1700 | .603 | | |
| PH/1800 | .250 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.365 | |

TABLE 3.D CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAF, REPL. NO. 5

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 8.4 | | 1612.141 |
| 1400 | 9.6 | | 1830.606 |
| 1440 | 7.4 | | 1424.208 |
| 1500 | 9.8 | | 1879.851 |
| 1551 | 3.3 | | 623.031 |
| 1600 | 6.9 | 11.1 | 1314.004 |
| 1670 | 4.1 | 6.7 | 793.896 |
| 1700 | 7.1 | 11.6 | 1367.974 |
| 1780 | 1.5 | 2.4 | 279.277 |
| 1800 | 6.0 | 9.8 | 1158.613 |
| 1851 | 2.1 | 3.5 | 409.714 |
| 1900 | 5.3 | 8.7 | 1024.111 |
| 2000 | 4.2 | 6.9 | 814.371 |
| 2100 | 3.5 | 5.7 | 667.272 |
| 2200 | 3.2 | 5.2 | 611.363 |
| 2300 | 2.9 | 4.7 | 552.182 |
| 2400 | 2.4 | 3.8 | 453.187 |
| 2500 | 2.0 | 3.3 | 390.818 |
| 2600 | 1.9 | 3.2 | 372.388 |
| 2700 | 1.7 | 2.8 | 332.279 |
| 2800 | 1.3 | 2.1 | 251.000 |
| 2900 | 1.6 | 2.6 | 307.945 |
| 3000 | 1.4 | 2.2 | 259.330 |
| 3100 | 1.3 | 2.1 | 251.199 |
| 3200 | 1.0 | 1.6 | 186.627 |

TABLE 3.d CONT. 'D

PR/PH 2.843

PR/1700 .580

PH/1800 .241

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.611

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE ROAD, REPL. NO. 3

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 5.5 | | 869.747 |
| 1400 | 7.2 | | 1153.016 |
| 1440 | 6.6 | | 1055.989 |
| 1500 | 9.0 | | 1427.625 |
| 1551 | 3.3 | | 526.976 |
| 1600 | 7.3 | 10.6 | 1160.359 |
| 1670 | 4.6 | 6.8 | 739.862 |
| 1700 | 7.7 | 11.3 | 1233.525 |
| 1780 | 1.7 | 2.5 | 276.834 |
| 1800 | 6.7 | 9.8 | 1070.145 |
| 1851 | 2.3 | 3.4 | 367.008 |
| 1900 | 6.0 | 8.8 | 961.632 |
| 2000 | 4.8 | 7.0 | 761.269 |
| 2100 | 3.9 | 5.7 | 624.262 |
| 2200 | 3.7 | 5.4 | 586.536 |
| 2300 | 3.3 | 4.8 | 519.167 |
| 2400 | 2.6 | 3.8 | 414.877 |
| 2500 | 2.2 | 3.1 | 343.316 |
| 2600 | 2.2 | 3.2 | 353.136 |
| 2700 | 1.9 | 2.8 | 304.291 |
| 2800 | 1.5 | 2.2 | 241.598 |
| 2900 | 1.8 | 2.6 | 285.314 |
| 3000 | 1.6 | 2.3 | 254.835 |
| 3100 | 1.4 | 2.1 | 230.177 |
| 3200 | 1.1 | 1.7 | 181.134 |
| PR/PH | 2.673 | | |
| PR/1700 | .600 | | |
| PH/1800 | .259 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.369 | |

TABLE 3.D CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAD, REPL. NO. 4

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 6.3 | | 1129.012 |
| 1400 | 8.0 | | 1427.571 |
| 1440 | 6.8 | | 1207.939 |
| 1500 | 9.4 | | 1670.345 |
| 1551 | 3.4 | | 603.881 |
| 1600 | 7.4 | 11.1 | 1314.713 |
| 1670 | 4.6 | 6.9 | 814.036 |
| 1700 | 7.3 | 11.0 | 1295.908 |
| 1780 | 1.5 | 2.3 | 269.350 |
| 1800 | 6.3 | 9.6 | 1132.087 |
| 1851 | 2.2 | 3.3 | 384.229 |
| 1900 | 5.8 | 8.7 | 1031.230 |
| 2000 | 4.6 | 6.9 | 812.964 |
| 2100 | 3.7 | 5.6 | 659.122 |
| 2200 | 3.5 | 5.3 | 621.125 |
| 2300 | 3.1 | 4.7 | 555.755 |
| 2400 | 2.6 | 3.9 | 459.870 |
| 2500 | 2.2 | 3.3 | 391.265 |
| 2600 | 2.2 | 3.3 | 392.466 |
| 2700 | 1.9 | 2.9 | 346.400 |
| 2800 | 1.6 | 2.4 | 278.074 |
| 2900 | 1.7 | 2.6 | 311.671 |
| 3000 | 1.6 | 2.4 | 280.032 |
| 3100 | 1.4 | 2.1 | 249.868 |
| 3200 | 1.1 | 1.7 | 202.745 |
| PR/PH | 3.022 | | |
| PR/1700 | .628 | | |
| PH/1800 | .238 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.540 | |

TABLE 3.d CONT. 'D

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TABLE 3.d CONT.'D

Summary for Cruise 4 succession:

B. Aromatic Fraction Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|---|
| 1 | 411 | (RUAD-1), 0 |
| 2 | 412 | (RUAD-2), 0 |
| 3 | 418 | (RUAD-8), 53 |
| 4 | 419 | (RUAD-9), 53 |
| 5 | 424 | (RUAE-4), 53 |
| 6 | 425 | (RUAE-5), 53 |
| 7 | 434 | (RUAf-4), 53 |
| 8 | 435 | (RUAf-4), 53 |
| 9 | 413 | (RUAD-3), Sterile Weather Control (53-day) |
| 10 | 414 | (RUAD-4), Sterile Weather Control (53-day) |

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE ROAD, REPL NO. 1

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 3.5 | 37.927 |
| 1870 | 12.2 | 130.884 |
| 1910 | 5.1 | 54.523 |
| 1980 | 8.3 | 89.009 |
| 2020 | 18.0 | 192.746 |
| 2060 | 4.0 | 42.688 |
| 2080 | 3.5 | 37.597 |
| 2110 | 2.0 | 29.730 |
| 2130 | 14.5 | 155.984 |
| 2170 | 5.5 | 58.744 |
| 2210 | 4.8 | 51.580 |
| 2220 | .7 | 7.514 |
| 2240 | 2.1 | 22.524 |
| 2290 | .8 | 9.006 |
| 2310 | 2.1 | 22.958 |
| 2430 | 6.8 | 72.471 |
| 2520 | 5.3 | 57.017 |

TABLE 3.D CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAD, REPL NO. 2

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|---------|
| 1750 | 6.9 | 109.089 |
| 1870 | 14.9 | 235.480 |
| 1910 | 8.4 | 133.278 |
| 1980 | 7.5 | 118.371 |
| 2020 | 19.2 | 303.751 |
| 2060 | 4.2 | 65.764 |
| 2080 | 2.6 | 41.424 |
| 2110 | 2.7 | 42.182 |
| 2130 | 10.6 | 168.136 |
| 2170 | 5.1 | 80.460 |
| 2210 | 4.0 | 62.517 |
| 2220 | .7 | 10.318 |
| 2240 | 2.5 | 39.667 |
| 2290 | .8 | 12.517 |
| 2310 | 1.6 | 25.393 |
| 2430 | 5.3 | 83.954 |
| 2520 | 2.9 | 46.444 |

TABLE 3-d CONT.'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE ROAD, REPL NO. 8

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 5.2 | 54.901 |
| 1870 | 13.6 | 143.036 |
| 1910 | 6.7 | 70.589 |
| 1980 | 8.0 | 84.712 |
| 2020 | 18.3 | 192.639 |
| 2060 | 4.0 | 42.462 |
| 2080 | 3.3 | 35.260 |
| 2110 | 2.7 | 28.244 |
| 2130 | 13.5 | 142.036 |
| 2170 | 5.1 | 54.273 |
| 2210 | 4.2 | 44.738 |
| 2220 | .7 | 7.514 |
| 2240 | 2.1 | 21.636 |
| 2290 | .8 | 8.355 |
| 2310 | 2.0 | 21.505 |
| 2430 | 6.3 | 66.638 |
| 2520 | 3.4 | 35.883 |

TABLE 3.D CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAD, REPL NO. 9

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 4.8 | 55.506 |
| 1870 | 12.9 | 148.056 |
| 1910 | 6.6 | 75.332 |
| 1980 | 8.0 | 92.323 |
| 2020 | 17.9 | 206.063 |
| 2060 | 3.9 | 45.099 |
| 2080 | 3.2 | 37.238 |
| 2110 | 2.5 | 28.244 |
| 2130 | 13.6 | 156.119 |
| 2170 | 5.2 | 59.813 |
| 2210 | 4.5 | 51.470 |
| 2220 | .6 | 6.326 |
| 2240 | 2.8 | 31.862 |
| 2290 | .8 | 8.844 |
| 2310 | 2.0 | 23.153 |
| 2430 | 6.2 | 71.283 |
| 2520 | 4.5 | 51.612 |

TABLE 3.d CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAЕ, REPL NO. 4

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 5.5 | 73.627 |
| 1870 | 14.2 | 188.789 |
| 1910 | 6.8 | 91.188 |
| 1980 | 8.2 | 109.630 |
| 2020 | 18.2 | 242.619 |
| 2060 | 3.9 | 52.240 |
| 2080 | 3.2 | 43.129 |
| 2110 | 2.2 | 29.730 |
| 2130 | 13.4 | 178.836 |
| 2170 | 5.1 | 67.939 |
| 2210 | 4.3 | 57.826 |
| 2220 | .7 | 9.017 |
| 2240 | 1.9 | 26.010 |
| 2290 | .8 | 10.813 |
| 2310 | 1.9 | 25.993 |
| 2430 | 5.9 | 79.004 |
| 2520 | 3.6 | 47.640 |

TABLE 3.D CONT. 'D

G-225

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUA6, REPL NO. 5

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 2.2 | 21.320 |
| 1870 | 11.9 | 114.536 |
| 1910 | 5.5 | 52.909 |
| 1980 | 8.2 | 79.199 |
| 2020 | 19.8 | 190.987 |
| 2060 | 4.2 | 40.396 |
| 2080 | 3.1 | 30.137 |
| 2110 | 2.5 | 23.784 |
| 2130 | 15.6 | 150.303 |
| 2170 | 6.0 | 57.859 |
| 2210 | 4.3 | 41.735 |
| 2220 | .7 | 6.763 |
| 2240 | 2.1 | 19.902 |
| 2290 | .8 | 7.401 |
| 2310 | 2.1 | 20.449 |
| 2430 | 6.4 | 61.829 |
| 2520 | 4.6 | 44.568 |

TABLE 3.d CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAF, REPL NO. 4

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 2.5 | 26.344 |
| 1870 | 12.2 | 126.214 |
| 1910 | 5.3 | 55.305 |
| 1980 | 8.7 | 90.774 |
| 2020 | 18.5 | 191.985 |
| 2060 | 3.5 | 36.234 |
| 2080 | 3.4 | 35.138 |
| 2110 | 2.7 | 28.244 |
| 2130 | 15.6 | 162.173 |
| 2170 | 5.6 | 57.730 |
| 2210 | 4.7 | 49.073 |
| 2220 | .6 | 6.289 |
| 2240 | 4.1 | 42.047 |
| 2290 | .7 | 7.431 |
| 2310 | 1.8 | 19.079 |
| 2430 | 7.8 | 81.087 |
| 2520 | 2.2 | 22.491 |

TABLE 3.D CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAF, REPL NO. 5

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 3.2 | 35.306 |
| 1870 | 13.3 | 147.440 |
| 1910 | 6.9 | 76.839 |
| 1980 | 8.2 | 91.178 |
| 2020 | 20.0 | 222.216 |
| 2060 | 4.1 | 45.775 |
| 2080 | 2.7 | 30.531 |
| 2110 | 2.5 | 28.244 |
| 2130 | 14.7 | 163.958 |
| 2170 | 5.5 | 61.127 |
| 2210 | 4.3 | 47.695 |
| 2220 | .7 | 7.514 |
| 2240 | 1.9 | 21.235 |
| 2290 | .8 | 8.504 |
| 2310 | 1.7 | 18.684 |
| 2430 | 6.0 | 66.638 |
| 2520 | 3.6 | 39.525 |

TABLE 3.d CONT.'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE ROAD, REPL NO. 3

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 2.2 | 18.943 |
| 1870 | 10.4 | 89.161 |
| 1910 | 3.0 | 25.523 |
| 1980 | 7.9 | 67.849 |
| 2020 | 15.8 | 135.706 |
| 2060 | 3.6 | 30.804 |
| 2080 | 3.9 | 33.546 |
| 2110 | 3.3 | 28.244 |
| 2130 | 15.1 | 129.381 |
| 2170 | 6.1 | 52.098 |
| 2210 | 5.5 | 47.600 |
| 2220 | .9 | 7.514 |
| 2240 | 2.5 | 21.752 |
| 2290 | .9 | 7.631 |
| 2310 | 3.8 | 32.248 |
| 2430 | 8.8 | 75.308 |
| 2520 | 6.4 | 54.792 |

TABLE 3.D CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE ROAD, REPL NO. 4

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 2.2 | 18.426 |
| 1870 | 10.9 | 92.892 |
| 1910 | 3.9 | 33.269 |
| 1980 | 8.5 | 72.453 |
| 2020 | 17.5 | 148.742 |
| 2060 | 3.7 | 31.146 |
| 2080 | 3.7 | 31.761 |
| 2110 | 2.6 | 22.298 |
| 2130 | 15.3 | 129.996 |
| 2170 | 5.8 | 49.300 |
| 2210 | 5.1 | 43.379 |
| 2220 | .9 | 7.514 |
| 2240 | 2.2 | 18.392 |
| 2290 | .9 | 7.631 |
| 2310 | 3.2 | 27.416 |
| 2430 | 8.0 | 67.744 |
| 2520 | 5.6 | 47.796 |

TABLE 3.d CONT.'D

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TABLE 3-e

Summary for Cruise 5 succession:

A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|---|
| *1 | 511 | (RUAG-1), 0 |
| 2 | 512 | (RUAG-2), 0 |
| 3 | 517 | (RUAG-7), 88 |
| 4 | 518 | (RUAG-8), 88 |
| 5 | 523 | (RUAJ-3), 88 |
| 6 | 524 | (RUAJ-4), 88 |
| 7 | 533 | (RUAL-3), 88 |
| 8 | 534 | (RUAL-4), 88 |
| 9 | 513 | (RUAG-3), Sterile Weathering Control (88-day) |
| 10 | 514 | (RUAG-4), Sterile Weathering Control (88-day) |
| 11 | 51(11) | (RUAH-11), 0 |
| 12 | 51(12) | (RUAH-12), 0 |
| 13 | 519 | (RUAH-9), 88 |
| 14 | 51(10) | (RUAH-10), 88 |
| 15 | 525 | (RUAK-5), 88 |
| 16 | 526 | (RUAK-6), 88 |
| 17 | 535 | (RUAM-5), 88 |
| 18 | 536 | (RUAM-6), 88 |
| 19 | 51(13) | (RUAH-13), Sterile Weathering Control (88-day) |
| 20 | 51(14) | (RUAH-14), Sterile Weathering Control (88-day) |

* Samples 1-10 were treated with 0.5% SLC Oil. All others were treated with 0.1% SLC Oil.

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL. NO. 1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 10.1 | | 1595.187 |
| 1400 | 9.4 | | 1493.133 |
| 1440 | 7.4 | | 1175.685 |
| 1500 | 9.6 | | 1524.524 |
| 1551 | 3.2 | | 508.852 |
| 1600 | 7.1 | 11.8 | 1124.042 |
| 1670 | 4.1 | 6.8 | 648.502 |
| 1700 | 6.8 | 11.3 | 1077.355 |
| 1780 | 1.5 | 2.4 | 231.678 |
| 1800 | 5.8 | 9.6 | 915.769 |
| 1851 | 2.0 | 3.2 | 308.949 |
| 1900 | 5.1 | 8.5 | 814.500 |
| 2000 | 4.1 | 6.7 | 642.603 |
| 2100 | 3.4 | 5.6 | 532.332 |
| 2200 | 3.2 | 5.3 | 502.200 |
| 2300 | 2.8 | 4.7 | 448.108 |
| 2400 | 2.3 | 3.8 | 365.416 |
| 2500 | 1.9 | 3.1 | 297.671 |
| 2600 | 1.9 | 3.2 | 305.517 |
| 2700 | 1.7 | 2.8 | 263.211 |
| 2800 | 1.3 | 2.1 | 199.644 |
| 2900 | 1.5 | 2.6 | 245.216 |
| 3000 | 1.5 | 2.5 | 236.273 |
| 3100 | 1.4 | 2.3 | 223.153 |
| 3200 | .9 | 1.5 | 146.113 |
| PR/PH | 2.799 | | |
| PR/1700 | .602 | | |
| PH/1800 | .253 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.474 | |

TABLE 3.e CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL. NO. 2

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 10.3 | | 1913.692 |
| 1400 | 9.3 | | 1740.868 |
| 1440 | 7.4 | | 1379.594 |
| 1500 | 9.7 | | 1806.472 |
| 1551 | 3.2 | | 598.401 |
| 1600 | 7.0 | 11.7 | 1306.152 |
| 1670 | 4.1 | 6.9 | 766.054 |
| 1700 | 6.9 | 11.6 | 1291.479 |
| 1780 | 1.5 | 2.5 | 276.076 |
| 1800 | 5.9 | 9.8 | 1099.623 |
| 1851 | 2.0 | 3.3 | 373.431 |
| 1900 | 5.2 | 8.7 | 976.471 |
| 2000 | 4.1 | 6.9 | 769.412 |
| 2100 | 3.4 | 5.6 | 626.734 |
| 2200 | 3.2 | 5.2 | 586.742 |
| 2300 | 2.8 | 4.7 | 520.827 |
| 2400 | 2.3 | 3.8 | 422.080 |
| 2500 | 1.8 | 3.1 | 341.996 |
| 2600 | 1.9 | 3.1 | 349.849 |
| 2700 | 1.6 | 2.7 | 299.879 |
| 2800 | 1.3 | 2.1 | 237.817 |
| 2900 | 1.5 | 2.4 | 273.143 |
| 3000 | 1.4 | 2.3 | 255.606 |
| 3100 | 1.2 | 1.9 | 216.678 |
| 3200 | 1.0 | 1.7 | 190.835 |
| PR/PH | 2.775 | | |
| PR/1700 | .593 | | |
| PH/1800 | .251 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.371 | | |

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TABLE 3.e CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL. NO. 7

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 7.2 | | 1337.028 |
| 1400 | 9.5 | | 1766.834 |
| 1440 | 7.7 | | 1430.225 |
| 1500 | 9.7 | | 1804.148 |
| 1551 | 3.2 | | 592.542 |
| 1600 | 7.1 | 11.3 | 1326.903 |
| 1670 | 4.6 | 7.3 | 862.476 |
| 1700 | 7.3 | 11.7 | 1371.706 |
| 1780 | 1.8 | 2.9 | 334.608 |
| 1800 | 6.2 | 9.8 | 1151.446 |
| 1851 | 2.1 | 3.3 | 390.870 |
| 1900 | 5.4 | 8.5 | 1002.916 |
| 2000 | 4.2 | 6.7 | 784.183 |
| 2100 | 3.5 | 5.5 | 647.575 |
| 2200 | 3.3 | 5.2 | 607.466 |
| 2300 | 2.9 | 4.6 | 540.478 |
| 2400 | 2.3 | 3.7 | 429.891 |
| 2500 | 2.0 | 3.1 | 364.451 |
| 2600 | 1.9 | 3.1 | 360.827 |
| 2700 | 1.8 | 2.8 | 332.730 |
| 2800 | 1.3 | 2.1 | 243.759 |
| 2900 | 1.6 | 2.6 | 302.530 |
| 3000 | 1.4 | 2.2 | 263.721 |
| 3100 | 1.2 | 1.9 | 223.923 |
| 3200 | 1.1 | 1.7 | 197.277 |
| PR/PH | 2.578 | | |
| PR/1700 | .629 | | |
| PH/1800 | .291 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.480 | |

TABLE 3.e CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL. NO. 8

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 7.7 | | 1621.255 |
| 1400 | 9.6 | | 2021.850 |
| 1440 | 7.6 | | 1597.815 |
| 1500 | 9.7 | | 2034.862 |
| 1551 | 3.3 | | 684.829 |
| 1600 | 7.1 | 11.4 | 1489.720 |
| 1670 | 4.5 | 7.2 | 937.141 |
| 1700 | 7.3 | 11.7 | 1529.934 |
| 1780 | 1.7 | 2.7 | 347.562 |
| 1800 | 6.1 | 9.8 | 1287.926 |
| 1851 | 2.1 | 3.4 | 441.066 |
| 1900 | 5.4 | 8.7 | 1132.761 |
| 2000 | 4.2 | 6.8 | 883.986 |
| 2100 | 3.5 | 5.6 | 728.027 |
| 2200 | 3.2 | 5.2 | 675.707 |
| 2300 | 2.9 | 4.6 | 607.242 |
| 2400 | 2.3 | 3.7 | 479.715 |
| 2500 | 1.9 | 3.1 | 401.339 |
| 2600 | 1.9 | 3.0 | 397.974 |
| 2700 | 1.7 | 2.7 | 351.666 |
| 2800 | 1.3 | 2.1 | 279.271 |
| 2900 | 1.6 | 2.5 | 332.939 |
| 3000 | 1.4 | 2.3 | 303.833 |
| 3100 | 1.2 | 1.9 | 253.010 |
| 3200 | 1.0 | 1.7 | 218.134 |

TABLE 3.e CONT. 1D

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PR/PH 2.696

PR/1700 .613

PH/1800 .270

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.837

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAJ, REPL. NO. 3

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 6.3 | | 900.040 |
| 1400 | 8.8 | | 1260.836 |
| 1440 | 7.2 | | 1028.918 |
| 1500 | 11.0 | | 1579.276 |
| 1551 | 5.2 | | 746.107 |
| 1600 | 7.0 | 11.4 | 1010.541 |
| 1670 | 4.2 | 6.9 | 609.855 |
| 1700 | 7.1 | 11.6 | 1025.720 |
| 1780 | 1.8 | 2.9 | 252.683 |
| 1800 | 6.4 | 10.4 | 918.619 |
| 1851 | 2.0 | 3.3 | 294.180 |
| 1900 | 5.3 | 8.6 | 760.784 |
| 2000 | 4.2 | 6.8 | 600.880 |
| 2100 | 3.5 | 5.6 | 497.000 |
| 2200 | 3.2 | 5.2 | 462.603 |
| 2300 | 2.9 | 4.6 | 410.575 |
| 2400 | 2.3 | 3.8 | 332.437 |
| 2500 | 1.9 | 3.1 | 272.615 |
| 2600 | 1.8 | 3.0 | 265.887 |
| 2700 | 1.7 | 2.8 | 244.744 |
| 2800 | 1.2 | 2.0 | 174.021 |
| 2900 | 1.6 | 2.6 | 228.707 |
| 3000 | 1.3 | 2.0 | 181.567 |
| 3100 | 1.4 | 2.2 | 198.593 |
| 3200 | .8 | 1.4 | 120.841 |
| PR/PH | 2.414 | | |
| PR/1700 | .595 | | |
| PH/1800 | .275 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 8.934 | | |

TABLE 3.e CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAJ, REPL. NO. 4

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 8.6 | | 1390.144 |
| 1400 | 9.2 | | 1493.913 |
| 1440 | 7.3 | | 1189.443 |
| 1500 | 9.8 | | 1591.182 |
| 1551 | 3.4 | | 551.769 |
| 1600 | 7.5 | 12.1 | 1210.101 |
| 1670 | 4.2 | 6.9 | 685.479 |
| 1700 | 7.1 | 11.5 | 1149.501 |
| 1780 | 1.5 | 2.4 | 241.341 |
| 1800 | 6.0 | 9.8 | 974.868 |
| 1851 | 2.1 | 3.3 | 333.718 |
| 1900 | 5.4 | 8.7 | 871.370 |
| 2000 | 4.2 | 6.9 | 686.543 |
| 2100 | 3.4 | 5.6 | 558.957 |
| 2200 | 3.2 | 5.2 | 523.711 |
| 2300 | 2.9 | 4.6 | 462.902 |
| 2400 | 2.3 | 3.7 | 371.757 |
| 2500 | 1.9 | 3.0 | 302.996 |
| 2600 | 1.9 | 3.1 | 310.630 |
| 2700 | 1.6 | 2.6 | 263.568 |
| 2800 | 1.3 | 2.1 | 213.325 |
| 2900 | 1.5 | 2.4 | 237.825 |
| 3000 | 1.4 | 2.3 | 228.128 |
| 3100 | 1.2 | 2.0 | 199.222 |
| 3200 | 1.0 | 1.6 | 164.818 |

PR/PH 2.840

PR/1700 .596

PH/1800 .248

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.420

TABLE 3.e CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAL, REPL. NO. 3

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 8.3 | | 1435.187 |
| 1400 | 9.0 | | 1544.536 |
| 1440 | 7.4 | | 1272.175 |
| 1500 | 9.7 | | 1671.878 |
| 1551 | 3.4 | | 576.867 |
| 1600 | 7.3 | 11.7 | 1251.984 |
| 1670 | 4.2 | 6.7 | 721.464 |
| 1700 | 7.1 | 11.4 | 1225.602 |
| 1780 | 1.5 | 2.4 | 254.606 |
| 1800 | 6.1 | 9.7 | 1042.777 |
| 1851 | 2.1 | 3.3 | 354.521 |
| 1900 | 5.4 | 8.8 | 938.098 |
| 2000 | 4.3 | 6.9 | 736.509 |
| 2100 | 3.5 | 5.6 | 605.020 |
| 2200 | 3.3 | 5.3 | 564.714 |
| 2300 | 2.9 | 4.6 | 495.350 |
| 2400 | 2.3 | 3.8 | 403.910 |
| 2500 | 1.9 | 3.1 | 331.249 |
| 2600 | 2.0 | 3.2 | 340.927 |
| 2700 | 1.7 | 2.7 | 293.959 |
| 2800 | 1.3 | 2.0 | 218.399 |
| 2900 | 1.6 | 2.6 | 277.207 |
| 3000 | 1.4 | 2.2 | 233.534 |
| 3100 | 1.5 | 2.4 | 260.273 |
| 3200 | 1.0 | 1.5 | 165.842 |
| PR/PH | 2.834 | | |
| PR/1700 | .589 | | |
| PH/1800 | .244 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.615 | | |

TABLE 3.e CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAL, REPL. NO. 4

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 10.2 | | 1815.448 |
| 1400 | 9.2 | | 1638.220 |
| 1440 | 7.4 | | 1314.645 |
| 1500 | 9.6 | | 1718.585 |
| 1551 | 3.3 | | 593.051 |
| 1600 | 7.0 | 11.6 | 1250.784 |
| 1670 | 4.1 | 6.8 | 733.883 |
| 1700 | 6.9 | 11.5 | 1234.698 |
| 1780 | 1.5 | 2.5 | 266.182 |
| 1800 | 5.9 | 9.8 | 1051.539 |
| 1851 | 2.0 | 3.3 | 355.365 |
| 1900 | 5.2 | 8.7 | 931.627 |
| 2000 | 4.1 | 6.8 | 734.539 |
| 2100 | 3.3 | 5.6 | 597.062 |
| 2200 | 3.2 | 5.3 | 566.443 |
| 2300 | 2.8 | 4.7 | 502.211 |
| 2400 | 2.3 | 3.8 | 404.877 |
| 2500 | 1.9 | 3.1 | 336.071 |
| 2600 | 1.9 | 3.1 | 336.567 |
| 2700 | 1.6 | 2.7 | 291.693 |
| 2800 | 1.3 | 2.2 | 232.601 |
| 2900 | 1.5 | 2.5 | 265.987 |
| 3000 | 1.4 | 2.4 | 257.978 |
| 3100 | 1.2 | 2.1 | 220.878 |
| 3200 | 1.0 | 1.7 | 180.825 |
| PR/PH | 2.757 | | |
| PR/1700 | .594 | | |
| PH/1800 | .253 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.396 | | |

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TABLE 3.e CONT.'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL. NO. 3

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 1.6 | | 207.904 |
| 1400 | 3.5 | | 450.694 |
| 1440 | 4.9 | | 621.625 |
| 1500 | 7.0 | | 895.147 |
| 1551 | 3.1 | | 390.727 |
| 1600 | 7.1 | 8.8 | 896.672 |
| 1670 | 5.6 | 7.0 | 710.342 |
| 1700 | 8.7 | 10.9 | 1110.405 |
| 1780 | 2.3 | 2.9 | 292.970 |
| 1800 | 7.9 | 9.9 | 1001.350 |
| 1851 | 2.7 | 3.4 | 347.849 |
| 1900 | 7.0 | 8.8 | 895.683 |
| 2000 | 5.6 | 7.0 | 706.857 |
| 2100 | 4.7 | 5.8 | 592.744 |
| 2200 | 4.4 | 5.5 | 559.762 |
| 2300 | 3.9 | 4.9 | 497.359 |
| 2400 | 3.1 | 3.9 | 394.248 |
| 2500 | 2.6 | 3.3 | 336.773 |
| 2600 | 2.6 | 3.2 | 329.319 |
| 2700 | 2.4 | 3.0 | 301.550 |
| 2800 | 1.8 | 2.2 | 226.402 |
| 2900 | 2.1 | 2.6 | 268.949 |
| 3000 | 2.2 | 2.7 | 277.122 |
| 3100 | 1.8 | 2.2 | 224.901 |
| 3200 | 1.4 | 1.8 | 179.236 |

PR/PH 2.425

PR/1700 .640

PH/1800 .293

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.770

TABLE 3.e CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL. NO. 4

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 4.5 | | 626.300 |
| 1400 | 6.4 | | 886.018 |
| 1440 | 6.2 | | 852.576 |
| 1500 | 8.6 | | 1190.512 |
| 1551 | 3.3 | | 461.254 |
| 1600 | 7.5 | 10.6 | 1035.095 |
| 1670 | 4.8 | 6.8 | 668.398 |
| 1700 | 7.9 | 11.1 | 1089.211 |
| 1780 | 1.8 | 2.5 | 249.301 |
| 1800 | 7.0 | 9.8 | 959.638 |
| 1851 | 2.4 | 3.3 | 325.186 |
| 1900 | 6.3 | 8.9 | 870.105 |
| 2000 | 4.9 | 7.0 | 683.199 |
| 2100 | 4.1 | 5.7 | 561.477 |
| 2200 | 3.8 | 5.4 | 530.968 |
| 2300 | 3.4 | 4.8 | 469.730 |
| 2400 | 2.8 | 3.9 | 379.822 |
| 2500 | 2.2 | 3.2 | 309.209 |
| 2600 | 2.3 | 3.3 | 320.609 |
| 2700 | 2.0 | 2.8 | 273.576 |
| 2800 | 1.6 | 2.2 | 216.329 |
| 2900 | 1.7 | 2.5 | 240.823 |
| 3000 | 1.7 | 2.4 | 234.323 |
| 3100 | 1.5 | 2.0 | 200.568 |
| 3200 | 1.3 | 1.8 | 173.278 |
| PR/PH | 2.681 | | |
| PR/1700 | .614 | | |
| PH/1800 | .260 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.315 | |

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TABLE 3.e CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL. NO. 11

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 3.2 | | 35.133 |
| 1300 | 6.5 | | 72.571 |
| 1356 | 4.3 | | 47.748 |
| 1400 | 8.3 | | 92.788 |
| 1440 | 2.5 | | 27.590 |
| 1500 | 9.0 | | 100.638 |
| 1551 | 2.0 | | 21.761 |
| 1600 | 8.3 | 12.9 | 92.417 |
| 1670 | 4.7 | 7.3 | 52.222 |
| 1700 | 7.2 | 11.1 | 79.765 |
| 1780 | 2.2 | 3.4 | 24.136 |
| 1800 | 6.3 | 9.8 | 70.300 |
| 1851 | 2.2 | 3.4 | 24.010 |
| 1900 | 5.2 | 8.1 | 57.990 |
| 2000 | 4.7 | 7.3 | 52.304 |
| 2100 | 3.7 | 5.8 | 41.673 |
| 2200 | 3.6 | 5.5 | 39.673 |
| 2300 | 2.9 | 4.5 | 31.916 |
| 2400 | 2.4 | 3.8 | 26.964 |
| 2500 | 1.9 | 2.9 | 20.903 |
| 2600 | 2.0 | 3.1 | 22.151 |
| 2700 | 1.6 | 2.4 | 17.533 |
| 2800 | .8 | 1.3 | 9.412 |
| 2900 | 1.5 | 2.4 | 16.939 |
| 3000 | 1.2 | 1.9 | 13.849 |
| 3100 | 1.1 | 1.8 | 12.622 |
| 3200 | .9 | 1.3 | 9.584 |
| PR/PH | 2.164 | | |
| PR/1700 | .655 | | |
| PH/1800 | .343 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.067 | |

TABLE 3.e CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL. NO. 12

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 9.8 | | 81.346 |
| 1356 | 6.1 | | 50.856 |
| 1400 | 9.7 | | 80.090 |
| 1440 | 2.5 | | 20.676 |
| 1500 | 9.0 | | 74.633 |
| 1551 | 1.9 | | 15.859 |
| 1600 | 7.9 | 13.0 | 65.633 |
| 1670 | 4.4 | 7.3 | 36.738 |
| 1700 | 6.9 | 11.3 | 56.736 |
| 1780 | 2.0 | 3.3 | 16.616 |
| 1800 | 5.9 | 9.7 | 49.137 |
| 1851 | 2.1 | 3.4 | 17.151 |
| 1900 | 5.0 | 8.2 | 41.206 |
| 2000 | 4.1 | 6.8 | 34.240 |
| 2100 | 3.5 | 5.7 | 28.716 |
| 2200 | 3.2 | 5.2 | 26.138 |
| 2300 | 2.7 | 4.5 | 22.636 |
| 2400 | 2.3 | 3.8 | 18.908 |
| 2500 | 1.7 | 2.9 | 14.432 |
| 2600 | 1.9 | 3.1 | 15.415 |
| 2700 | 1.5 | 2.4 | 12.005 |
| 2800 | 1.2 | 2.0 | 9.925 |
| 2900 | 1.4 | 2.3 | 11.676 |
| 3000 | 1.2 | 2.0 | 10.077 |
| 3100 | 1.2 | 2.0 | 9.997 |
| 3200 | .8 | 1.3 | 6.722 |
| PR/PH | 2.211 | | |
| PR/1700 | .648 | | |
| PH/1800 | .338 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.127 | |

TABLE 3.e CONT.'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL. NO. 9

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 3.6 | | 83.745 |
| 1356 | 3.6 | | 83.552 |
| 1400 | 6.7 | | 157.944 |
| 1440 | 1.4 | | 31.715 |
| 1500 | 8.8 | | 206.958 |
| 1551 | 2.2 | | 50.798 |
| 1600 | 8.8 | 11.9 | 205.685 |
| 1670 | 5.3 | 7.1 | 123.998 |
| 1700 | 8.2 | 11.1 | 192.006 |
| 1780 | 2.3 | 3.1 | 54.178 |
| 1800 | 7.1 | 9.6 | 167.345 |
| 1851 | 2.5 | 3.4 | 59.309 |
| 1900 | 6.2 | 8.4 | 146.273 |
| 2000 | 5.1 | 6.9 | 119.482 |
| 2100 | 4.3 | 5.8 | 100.411 |
| 2200 | 4.0 | 5.4 | 94.380 |
| 2300 | 3.4 | 4.7 | 80.969 |
| 2400 | 2.8 | 3.8 | 66.543 |
| 2500 | 2.3 | 3.2 | 54.828 |
| 2600 | 2.3 | 3.1 | 53.927 |
| 2700 | 1.8 | 2.5 | 43.367 |
| 2800 | 1.5 | 2.0 | 34.994 |
| 2900 | 1.7 | 2.3 | 40.356 |
| 3000 | 1.6 | 2.2 | 38.267 |
| 3100 | 1.5 | 2.0 | 35.212 |
| 3200 | 1.0 | 1.3 | 22.886 |
| PR/PH | 2.289 | | |
| PR/1700 | .646 | | |
| PH/1800 | .324 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 8.401 | | |

TABLE 3.e CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL. NO. 10

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 2.1 | | 21.397 |
| 1300 | 4.6 | | 45.588 |
| 1356 | 4.1 | | 40.590 |
| 1400 | 7.1 | | 71.154 |
| 1440 | 2.3 | | 22.595 |
| 1500 | 8.6 | | 85.767 |
| 1551 | 2.0 | | 20.139 |
| 1600 | 8.3 | 12.1 | 83.285 |
| 1670 | 4.9 | 7.1 | 49.376 |
| 1700 | 7.6 | 11.0 | 76.273 |
| 1780 | 2.2 | 3.2 | 21.815 |
| 1800 | 6.7 | 9.7 | 66.674 |
| 1851 | 2.4 | 3.4 | 23.647 |
| 1900 | 5.8 | 8.3 | 57.575 |
| 2000 | 5.0 | 7.2 | 49.930 |
| 2100 | 4.3 | 6.2 | 42.600 |
| 2200 | 3.7 | 5.4 | 37.026 |
| 2300 | 3.1 | 4.5 | 31.220 |
| 2400 | 2.7 | 3.9 | 26.653 |
| 2500 | 2.0 | 2.8 | 19.498 |
| 2600 | 2.1 | 3.1 | 21.094 |
| 2700 | 1.7 | 2.5 | 17.134 |
| 2800 | 1.4 | 2.0 | 14.156 |
| 2900 | 1.6 | 2.4 | 16.336 |
| 3000 | 1.5 | 2.1 | 14.771 |
| 3100 | 1.3 | 1.8 | 12.543 |
| 3200 | .9 | 1.3 | 9.284 |
| PR/PH | 2.263 | | |
| PR/1700 | .647 | | |
| PH/1800 | .327 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.373 | |

TABLE 3-e CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE ROAR, REPL. NO. 5

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 3.5 | | 37.355 |
| 1356 | 3.6 | | 38.127 |
| 1400 | 6.8 | | 72.123 |
| 1440 | 2.3 | | 23.747 |
| 1500 | 8.8 | | 92.218 |
| 1551 | 2.2 | | 22.943 |
| 1600 | 8.8 | 12.1 | 92.974 |
| 1670 | 5.3 | 7.2 | 55.410 |
| 1700 | 8.2 | 11.2 | 85.892 |
| 1780 | 2.3 | 3.2 | 24.646 |
| 1800 | 7.1 | 9.8 | 75.110 |
| 1851 | 2.5 | 3.4 | 25.913 |
| 1900 | 6.1 | 8.4 | 64.216 |
| 2000 | 5.0 | 6.9 | 53.179 |
| 2100 | 4.2 | 5.8 | 44.724 |
| 2200 | 3.9 | 5.4 | 41.152 |
| 2300 | 3.4 | 4.6 | 35.540 |
| 2400 | 2.8 | 3.8 | 29.421 |
| 2500 | 2.1 | 2.9 | 22.488 |
| 2600 | 2.2 | 3.1 | 23.648 |
| 2700 | 1.8 | 2.5 | 18.950 |
| 2800 | 1.5 | 2.0 | 15.579 |
| 2900 | 1.5 | 2.0 | 15.626 |
| 3000 | 1.6 | 2.1 | 16.477 |
| 3100 | 1.5 | 2.1 | 15.822 |
| 3200 | 1.0 | 1.4 | 10.426 |
| PR/PH | 2.248 | | |
| PR/1700 | .645 | | |
| PH/1800 | .328 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 8.259 | | |

TABLE 3.e CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAK, REPL. NO. 6

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 4.0 | | 49.923 |
| 1400 | 7.4 | | 93.207 |
| 1440 | 3.7 | | 46.400 |
| 1500 | 8.8 | | 109.762 |
| 1551 | 3.3 | | 40.780 |
| 1600 | 0.9 | 12.3 | 112.034 |
| 1670 | 5.3 | 7.3 | 66.325 |
| 1700 | 8.0 | 11.0 | 100.749 |
| 1780 | 2.2 | 3.0 | 27.705 |
| 1800 | 7.0 | 9.7 | 88.207 |
| 1851 | 2.5 | 3.4 | 31.454 |
| 1900 | 6.4 | 8.8 | 80.516 |
| 2000 | 5.1 | 7.0 | 63.431 |
| 2100 | 4.3 | 5.8 | 53.265 |
| 2200 | 3.9 | 5.3 | 48.534 |
| 2300 | 3.3 | 4.5 | 40.887 |
| 2400 | 2.7 | 3.8 | 34.284 |
| 2500 | 2.2 | 3.0 | 27.028 |
| 2600 | 2.2 | 3.0 | 27.138 |
| 2700 | 1.8 | 2.5 | 22.642 |
| 2800 | 1.5 | 2.1 | 19.293 |
| 2900 | 1.5 | 2.1 | 18.844 |
| 3000 | 1.5 | 2.1 | 19.002 |
| 3100 | 1.5 | 2.0 | 18.322 |
| 3200 | 1.0 | 1.4 | 12.344 |
| PR/PH | 2.394 | | |
| PR/1700 | .658 | | |
| PH/1800 | .314 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.365 | |

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TABLE 3.e CONT. 1D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAM, REPL. NO. 5

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 9.0 | | 95.457 |
| 1356 | 6.1 | | 64.579 |
| 1400 | 8.9 | | 94.293 |
| 1440 | 2.4 | | 26.005 |
| 1500 | 8.8 | | 94.080 |
| 1551 | 2.0 | | 21.068 |
| 1600 | 8.0 | 12.7 | 84.759 |
| 1670 | 4.6 | 7.3 | 48.483 |
| 1700 | 6.9 | 11.0 | 73.593 |
| 1700 | 2.0 | 3.1 | 20.999 |
| 1800 | 6.1 | 9.7 | 64.621 |
| 1851 | 2.1 | 3.4 | 22.703 |
| 1900 | 5.3 | 8.4 | 56.295 |
| 2000 | 4.3 | 6.8 | 45.795 |
| 2100 | 3.6 | 5.8 | 38.484 |
| 2200 | 3.4 | 5.4 | 35.822 |
| 2300 | 2.9 | 4.5 | 30.385 |
| 2400 | 2.4 | 3.8 | 25.387 |
| 2500 | 2.0 | 3.2 | 21.334 |
| 2600 | 1.9 | 3.1 | 20.418 |
| 2700 | 1.5 | 2.4 | 16.298 |
| 2800 | 1.3 | 2.1 | 13.770 |
| 2900 | 1.3 | 2.0 | 13.504 |
| 3000 | 1.3 | 2.1 | 13.940 |
| 3100 | 1.2 | 1.9 | 12.924 |
| 3200 | .9 | 1.4 | 9.095 |

PR/PH 2.309

PR/1700 .659

PH/1800 .325

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.296

TABLE 3.e CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAM, REPL. NO. 6

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 2.7 | | 68.695 |
| 1400 | 4.9 | | 125.149 |
| 1440 | 1.5 | | 38.438 |
| 1500 | 6.6 | | 169.947 |
| 1551 | 3.1 | | 78.203 |
| 1600 | 6.5 | 8.0 | 166.527 |
| 1670 | 4.8 | 5.9 | 123.548 |
| 1700 | 7.2 | 8.9 | 185.494 |
| 1780 | 2.0 | 2.4 | 50.431 |
| 1800 | 6.7 | 8.2 | 171.615 |
| 1851 | 2.7 | 3.3 | 68.418 |
| 1900 | 6.4 | 7.9 | 163.717 |
| 2000 | 5.6 | 6.9 | 142.636 |
| 2100 | 4.9 | 6.0 | 125.248 |
| 2200 | 4.5 | 5.5 | 114.663 |
| 2300 | 4.4 | 5.5 | 113.608 |
| 2400 | 3.7 | 4.6 | 95.744 |
| 2500 | 3.2 | 3.9 | 81.954 |
| 2600 | 3.1 | 3.9 | 80.580 |
| 2700 | 2.7 | 3.3 | 68.545 |
| 2800 | 2.1 | 2.6 | 53.490 |
| 2900 | 3.2 | 4.0 | 82.699 |
| 3000 | 2.8 | 3.5 | 72.886 |
| 3100 | 2.9 | 3.6 | 74.710 |
| 3200 | 1.7 | 2.1 | 43.843 |

TABLE 3.e CONT. 'D

PR/PH 2.450

PR/1700 .666

PH/1800 .294

SUM OF THE N-ALKANES 1600-3200 / PR+PH 10.564

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL. NO. 13

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 0.0 | | 0.000 |
| 1440 | 0.0 | | 0.000 |
| 1500 | .7 | | 1.772 |
| 1551 | 0.0 | | 0.000 |
| 1600 | .6 | .6 | 1.607 |
| 1670 | .8 | .8 | 2.041 |
| 1700 | .9 | .9 | 2.450 |
| 1700 | 1.1 | 1.1 | 2.882 |
| 1800 | 3.2 | 3.2 | 8.563 |
| 1851 | 1.8 | 1.9 | 4.939 |
| 1900 | 6.8 | 6.8 | 18.232 |
| 2000 | 9.3 | 9.3 | 24.835 |
| 2100 | 9.9 | 10.0 | 26.603 |
| 2200 | 10.4 | 10.5 | 28.032 |
| 2300 | 9.3 | 9.4 | 25.023 |
| 2400 | 8.0 | 8.1 | 21.471 |
| 2500 | 6.6 | 6.6 | 17.660 |
| 2600 | 6.7 | 6.8 | 18.055 |
| 2700 | 5.3 | 5.3 | 14.214 |
| 2800 | 3.0 | 3.0 | 8.128 |
| 2900 | 4.3 | 4.4 | 11.622 |
| 3000 | 4.5 | 4.5 | 11.956 |
| 3100 | 4.3 | 4.3 | 11.458 |
| 3200 | 2.5 | 2.5 | 6.748 |
| PR/PH | .708 | | |
| PR/1700 | .833 | | |
| PH/1800 | .337 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 52.140 | |

TABLE 3.e CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL. NO. 14

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 0.0 | | 0.000 |
| 1440 | 0.0 | | 0.000 |
| 1500 | 0.0 | | 0.000 |
| 1551 | 0.0 | | 0.000 |
| 1600 | .4 | .4 | 1.131 |
| 1670 | .9 | .9 | 2.900 |
| 1700 | 1.3 | 1.3 | 3.956 |
| 1780 | 1.4 | 1.4 | 4.409 |
| 1800 | 4.4 | 4.4 | 13.377 |
| 1851 | 2.3 | 2.3 | 7.136 |
| 1900 | 8.0 | 8.0 | 24.471 |
| 2000 | 9.7 | 9.7 | 29.654 |
| 2100 | 9.6 | 9.6 | 29.501 |
| 2200 | 10.0 | 10.0 | 30.693 |
| 2300 | 8.7 | 8.7 | 26.650 |
| 2400 | 7.4 | 7.4 | 22.794 |
| 2500 | 6.0 | 6.0 | 18.488 |
| 2600 | 6.2 | 6.2 | 18.850 |
| 2700 | 4.9 | 4.9 | 15.051 |
| 2800 | 4.1 | 4.1 | 12.618 |
| 2900 | 4.2 | 4.2 | 12.775 |
| 3000 | 4.1 | 4.1 | 12.704 |
| 3100 | 3.6 | 3.6 | 10.887 |
| 3200 | 2.7 | 2.7 | 8.309 |

TABLE 3.e CONT. 'D

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PR/PH .658

PR/1700 .733

PH/1800 .330

SUM OF THE N-ALKANES 1600-3200 / PR+PH 39.938

1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800 1850 1900 1950 2000 2050 2100 2150 2200 2250 2300 2350 2400 2450 2500 2550 2600 2650 2700 2750 2800 2850 2900 2950 3000 3050 3100 3150 3200

TABLE 3.e CONT.'D

Summary for Cruise 5 succession:B. Aromatic Fraction Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|---|
| *1 | 511 | (RUAG-1), 0 |
| 2 | 512 | (RUAG-2), 0 |
| 3 | 517 | (RUAG-7), 88 |
| 4 | 518 | (RUAG-8), 88 |
| 5 | 523 | (RUAJ-3), 88 |
| 6 | 524 | (RUAJ-4), 88 |
| 7 | 533 | (RUAL-3), 88 |
| 3 | 534 | (RUAL-4), 88 |
| 9 | 513 | (RUAG-3), Sterile Weathering Control (88-day) |
| 10 | 514 | (RUAG-4), Sterile Weathering Control (88-day) |
| 11 | 51(11) | (RUAH-11), 0 |
| 12 | 51(12) | (RUAH-12), 0 |
| 13 | 519 | (RUAH-9), 88 |
| 14 | 51(10) | (RUAH-10), 88 |
| 15 | 525 | (RUAK-5), 88 |
| 16 | 526 | (RUAK-6), 88 |
| 17 | 535 | (RUAM-5), 88 |
| 18 | 536 | (RUAM-6), 88 |
| 19 | 51(13) | (RUAH-13), Sterile Weathering Control (88-day) |
| 20 | 51(14) | (RUAH-14), Sterile Weathering Control (88-day) |

* Samples 1-10 were treated with 0.5% SLC Oil. All others were treated with 0.1% SLC Oil.

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL NO. 1

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 6.4 | 78.286 |
| 1870 | 14.7 | 179.548 |
| 1910 | 7.4 | 90.960 |
| 1980 | 8.3 | 100.795 |
| 2020 | 18.4 | 224.740 |
| 2060 | 3.9 | 47.849 |
| 2080 | 3.1 | 37.581 |
| 2110 | 2.4 | 29.730 |
| 2130 | 13.0 | 158.183 |
| 2170 | 4.8 | 58.515 |
| 2210 | 4.0 | 48.738 |
| 2220 | .6 | 7.514 |
| 2240 | 1.8 | 21.727 |
| 2290 | .8 | 9.317 |
| 2310 | 1.8 | 21.556 |
| 2430 | 5.4 | 66.381 |
| 2520 | 3.3 | 39.851 |

TABLE 3.e CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL NO. 2

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 6.3 | 95.847 |
| 1870 | 14.4 | 218.243 |
| 1910 | 7.1 | 106.908 |
| 1980 | 8.3 | 126.064 |
| 2020 | 18.1 | 274.088 |
| 2060 | 3.9 | 59.120 |
| 2080 | 3.1 | 47.646 |
| 2110 | 2.2 | 33.447 |
| 2130 | 13.2 | 199.985 |
| 2170 | 5.0 | 75.891 |
| 2210 | 4.3 | 64.572 |
| 2220 | .6 | 9.017 |
| 2240 | 1.8 | 26.659 |
| 2290 | .8 | 11.667 |
| 2310 | 1.9 | 28.213 |
| 2430 | 5.7 | 86.009 |
| 2520 | 3.4 | 51.980 |

TABLE 3.e CONT.'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL NO. 7

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 3.7 | 37.910 |
| 1870 | 12.1 | 124.563 |
| 1910 | 5.4 | 55.921 |
| 1980 | 8.1 | 83.065 |
| 2020 | 17.8 | 183.689 |
| 2060 | 4.0 | 40.887 |
| 2080 | 3.6 | 37.098 |
| 2110 | 2.7 | 28.244 |
| 2130 | 14.3 | 147.031 |
| 2170 | 5.5 | 56.501 |
| 2210 | 4.9 | 50.211 |
| 2220 | .6 | 6.280 |
| 2240 | 2.8 | 28.431 |
| 2290 | .8 | 7.926 |
| 2310 | 2.3 | 24.126 |
| 2430 | 7.0 | 71.719 |
| 2520 | 4.5 | 46.662 |

TABLE 3.e CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL NO. 8

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 5.4 | 57.812 |
| 1870 | 13.5 | 143.134 |
| 1910 | 6.5 | 69.135 |
| 1980 | 8.1 | 85.783 |
| 2020 | 18.0 | 190.492 |
| 2060 | 3.9 | 41.801 |
| 2080 | 3.4 | 35.561 |
| 2110 | 2.7 | 28.244 |
| 2130 | 13.4 | 142.630 |
| 2170 | 5.0 | 53.489 |
| 2210 | 4.3 | 45.587 |
| 2220 | .7 | 7.514 |
| 2240 | 2.1 | 22.360 |
| 2290 | .7 | 7.952 |
| 2310 | 2.1 | 22.097 |
| 2430 | 6.1 | 64.991 |
| 2520 | 4.0 | 42.551 |

TABLE 3.e CONT. 'D

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| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 3.0 | 28.718 |
| 1870 | 13.2 | 127.025 |
| 1910 | 6.0 | 58.205 |
| 1980 | 8.5 | 82.267 |
| 2020 | 18.8 | 181.068 |
| 2060 | 3.9 | 37.196 |
| 2080 | 3.4 | 33.237 |
| 2110 | 2.9 | 28.244 |
| 2130 | 14.6 | 140.660 |
| 2170 | 5.2 | 50.119 |
| 2210 | 4.5 | 43.079 |
| 2220 | .8 | 7.514 |
| 2240 | 2.0 | 19.437 |
| 2290 | .7 | 6.992 |
| 2310 | 1.9 | 18.240 |
| 2430 | 6.8 | 65.117 |
| 2520 | 3.8 | 36.785 |

TABLE 3.e CONT. 'D

G-259

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAJ, REPL NO. 4

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|---------|
| 1750 | 3.2 | 28.920 |
| 1870 | 11.6 | 105.682 |
| 1910 | 5.1 | 46.312 |
| 1980 | 8.3 | 75.353 |
| 2020 | 18.1 | 164.622 |
| 2060 | 3.9 | 35.540 |
| 2080 | 3.6 | 32.812 |
| 2110 | 3.1 | 28.244 |
| 2130 | 14.7 | 133.414 |
| 2170 | 5.6 | 51.139 |
| 2210 | 5.1 | 46.096 |
| 2220 | .8 | 7.514 |
| 2240 | 2.2 | 19.943 |
| 2290 | .8 | 7.469 |
| 2310 | 2.3 | 20.618 |
| 2430 | 7.2 | 65.427 |
| 2520 | 4.5 | 40.617 |

TABLE 3.e CONT. 'D

G-260

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAL, REPL NO. 3

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 1.8 | 19.404 |
| 1870 | 11.4 | 122.615 |
| 1910 | 4.5 | 48.862 |
| 1980 | 8.4 | 90.795 |
| 2020 | 18.0 | 194.618 |
| 2060 | 3.7 | 40.033 |
| 2080 | 3.6 | 38.854 |
| 2110 | 2.8 | 29.730 |
| 2130 | 15.7 | 169.360 |
| 2170 | 5.8 | 62.147 |
| 2210 | 4.9 | 53.207 |
| 2220 | .7 | 8.015 |
| 2240 | 3.7 | 39.575 |
| 2290 | .8 | 8.589 |
| 2310 | 2.0 | 22.009 |
| 2430 | 7.7 | 83.193 |
| 2520 | 4.5 | 48.519 |

TABLE 3.e CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAL, REPL NO. 4

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 5.5 | 86.489 |
| 1870 | 13.7 | 215.270 |
| 1910 | 6.8 | 106.738 |
| 1980 | 8.2 | 129.157 |
| 2020 | 18.0 | 283.925 |
| 2060 | 4.0 | 62.861 |
| 2080 | 3.2 | 50.057 |
| 2110 | 2.1 | 33.447 |
| 2130 | 13.4 | 210.695 |
| 2170 | 5.1 | 80.679 |
| 2210 | 4.4 | 68.495 |
| 2220 | .6 | 9.017 |
| 2240 | 2.0 | 31.276 |
| 2290 | .7 | 11.383 |
| 2310 | 2.0 | 31.212 |
| 2430 | 5.8 | 91.300 |
| 2520 | 4.6 | 71.609 |

TABLE 3.e CONT. 'D

G-262

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL NO. 3

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 9.0 | 48.458 |
| 1910 | 0.0 | 0.000 |
| 1980 | 8.0 | 43.202 |
| 2020 | 14.6 | 78.353 |
| 2060 | 3.1 | 16.916 |
| 2080 | 4.8 | 25.652 |
| 2110 | 3.5 | 18.582 |
| 2130 | 16.7 | 89.672 |
| 2170 | 6.8 | 36.280 |
| 2210 | 6.3 | 33.982 |
| 2220 | 1.3 | 6.763 |
| 2240 | 2.2 | 11.980 |
| 2290 | 1.3 | 6.868 |
| 2310 | 4.4 | 23.615 |
| 2430 | 11.3 | 60.911 |
| 2520 | 6.7 | 36.030 |

TABLE 3.e CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAG, REPL NO. 4

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 9.3 | 93.122 |
| 1910 | 2.4 | 23.882 |
| 1980 | 8.4 | 84.212 |
| 2020 | 16.3 | 164.323 |
| 2060 | 3.6 | 35.933 |
| 2080 | 4.1 | 41.764 |
| 2110 | 3.1 | 31.217 |
| 2130 | 16.3 | 163.964 |
| 2170 | 6.3 | 63.510 |
| 2210 | 5.7 | 57.479 |
| 2220 | .7 | 7.514 |
| 2240 | 2.4 | 24.048 |
| 2290 | .9 | 8.563 |
| 2310 | 2.8 | 27.710 |
| 2430 | 9.3 | 93.830 |
| 2520 | 8.5 | 85.596 |

TABLE 3-e CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL NO. 11

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 4.4 | .260 |
| 1910 | 4.0 | .236 |
| 1980 | 3.8 | .224 |
| 2020 | 28.5 | 1.680 |
| 2060 | 6.3 | .371 |
| 2080 | 0.0 | 0.000 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.1 | .892 |
| 2170 | 6.7 | .398 |
| 2210 | 6.0 | .351 |
| 2220 | 0.0 | 0.000 |
| 2240 | 6.9 | .405 |
| 2290 | 0.0 | 0.000 |
| 2310 | 0.0 | 0.000 |
| 2430 | 11.0 | .646 |
| 2520 | 7.3 | .432 |

TABLE 3.e CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL NO. 12

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | 0.0 | 0.000 |
| 1980 | 3.0 | .283 |
| 2020 | 19.4 | 1.807 |
| 2060 | 5.1 | .478 |
| 2080 | 4.6 | .427 |
| 2110 | 1.6 | .147 |
| 2130 | 16.0 | 1.495 |
| 2170 | 11.2 | 1.048 |
| 2210 | 7.8 | .729 |
| 2220 | 1.5 | .143 |
| 2240 | 5.2 | .485 |
| 2290 | 1.6 | .145 |
| 2310 | 3.0 | .281 |
| 2430 | 12.0 | 1.125 |
| 2520 | 8.0 | .746 |

TABLE 3.e CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL NO. 9

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 7.4 | .826 |
| 1910 | 1.9 | .216 |
| 1980 | 4.9 | .545 |
| 2020 | 16.4 | 1.836 |
| 2060 | 4.0 | .452 |
| 2080 | 4.2 | .470 |
| 2110 | 1.3 | .151 |
| 2130 | 13.8 | 1.550 |
| 2170 | 9.6 | 1.077 |
| 2210 | 6.7 | .748 |
| 2220 | 1.3 | .143 |
| 2240 | 4.6 | .511 |
| 2290 | 1.3 | .145 |
| 2310 | 4.0 | .451 |
| 2430 | 11.3 | 1.267 |
| 2520 | 7.3 | .819 |

TABLE 3.e CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL NO. 10

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | I | 0.000 |
| 1870 | I | 0.000 |
| 1910 | I | 0.000 |
| 1980 | I | 0.000 |
| 2020 | I | 0.000 |
| 2060 | I | 0.000 |
| 2080 | I | 0.000 |
| 2110 | I | 0.000 |
| 2130 | I | 0.000 |
| 2170 | I | 0.000 |
| 2210 | I | 0.000 |
| 2220 | I | 0.000 |
| 2240 | I | 0.000 |
| 2290 | I | 0.000 |
| 2310 | I | 0.000 |
| 2430 | I | 0.000 |
| 2520 | I | 0.000 |

TABLE 3.e CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAK, REPL NO. 5

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | 0.0 | 0.000 |
| 1980 | 0.0 | 0.000 |
| 2020 | 0.0 | 0.000 |
| 2060 | 0.0 | 0.000 |
| 2080 | 0.0 | 0.000 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.0 | .385 |
| 2170 | 10.2 | .262 |
| 2210 | 6.9 | .175 |
| 2220 | 0.0 | 0.000 |
| 2240 | 7.0 | .178 |
| 2290 | 0.0 | 0.000 |
| 2310 | 11.1 | .284 |
| 2430 | 30.4 | .778 |
| 2520 | 19.5 | .498 |

TABLE 3.e CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAK, REPL NO. 6

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | 0.0 | 0.000 |
| 1980 | 0.0 | 0.000 |
| 2020 | 19.9 | 1.063 |
| 2060 | 4.7 | .251 |
| 2080 | 0.0 | 0.000 |
| 2110 | 0.0 | 0.000 |
| 2130 | 17.9 | .958 |
| 2170 | 11.5 | .615 |
| 2210 | 7.8 | .415 |
| 2220 | 0.0 | 0.000 |
| 2240 | 6.2 | .332 |
| 2290 | 0.0 | 0.000 |
| 2310 | 4.5 | .243 |
| 2430 | 16.7 | .894 |
| 2520 | 10.7 | .572 |

TABLE 3.e CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAM, REPL NO. 5

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 8.9 | 1.460 |
| 1910 | 12.3 | 2.012 |
| 1980 | 5.8 | .941 |
| 2020 | 16.1 | 2.629 |
| 2060 | 6.4 | 1.045 |
| 2080 | 4.0 | .659 |
| 2110 | 1.1 | .185 |
| 2130 | 7.5 | 1.233 |
| 2170 | 3.0 | .493 |
| 2210 | 3.9 | .641 |
| 2220 | 0.0 | 0.000 |
| 2240 | 13.5 | 2.206 |
| 2290 | 0.0 | 0.000 |
| 2310 | 1.4 | .235 |
| 2430 | 6.9 | 1.132 |
| 2520 | 9.1 | 1.481 |

TABLE 3.e CONT.'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAM, REPL NO. 6

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 8.0 | 1.540 |
| 1870 | 4.1 | .792 |
| 1910 | 4.4 | .841 |
| 1980 | 16.8 | 3.246 |
| 2020 | 3.4 | .648 |
| 2060 | 0.0 | 0.000 |
| 2080 | 0.0 | 0.000 |
| 2110 | 0.0 | 0.000 |
| 2130 | 22.4 | 4.318 |
| 2170 | 7.3 | 1.408 |
| 2210 | 6.5 | 1.262 |
| 2220 | 0.0 | 0.000 |
| 2240 | 4.6 | .891 |
| 2290 | 0.0 | 0.000 |
| 2310 | 4.2 | .818 |
| 2430 | 12.4 | 2.401 |
| 2520 | 5.9 | 1.139 |

TABLE 3.e CONT.'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL NO. 13

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | I | 0.000 |
| 1870 | I | 0.000 |
| 1910 | I | 0.000 |
| 1980 | I | 0.000 |
| 2020 | I | 0.000 |
| 2060 | I | 0.000 |
| 2080 | I | 0.000 |
| 2110 | I | 0.000 |
| 2130 | I | 0.000 |
| 2170 | I | 0.000 |
| 2210 | I | 0.000 |
| 2220 | I | 0.000 |
| 2240 | I | 0.000 |
| 2290 | I | 0.000 |
| 2310 | I | 0.000 |
| 2430 | I | 0.000 |
| 2520 | I | 0.000 |

TABLE 3.e CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAH, REPL NO. 14

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | I | 0.000 |
| 1870 | I | 0.000 |
| 1910 | I | 0.000 |
| 1980 | I | 0.000 |
| 2020 | I | 0.000 |
| 2060 | I | 0.000 |
| 2080 | I | 0.000 |
| 2110 | I | 0.000 |
| 2130 | I | 0.000 |
| 2170 | I | 0.000 |
| 2210 | I | 0.000 |
| 2220 | I | 0.000 |
| 2240 | I | 0.000 |
| 2290 | I | 0.000 |
| 2310 | I | 0.000 |
| 2430 | I | 0.000 |
| 2520 | I | 0.000 |

TABLE 3.e CONT. 'D

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TABLE 3.f

Summary for Cruise 6 succession:

A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|--|
| 1 | 615 | (RUAN-5), 0 |
| 2 | 616 | (RUAN-6), 0 |
| 3 | 611 | (RUAN-1), 81 |
| 4 | 612 | (RUAN-2), 81 |
| 5 | 621 | (RUAD-1), 81 |
| 6 | 622 | (RUAD-2), 81 |
| 7 | 631 | (RUAP-1), 81 |
| 8 | 632 | (RUAP-2), 81 |
| 9 | 613 | (RUAN-3), Sterile Weathering Control (81-day) |
| 10 | 614 | (RUAN-4), Sterile Weathering Control (81-day) |

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL. NO. 5

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 10.1 | | 258.289 |
| 1356 | 2.8 | | 71.166 |
| 1400 | 9.6 | | 243.677 |
| 1440 | 2.5 | | 64.177 |
| 1500 | 9.7 | | 247.766 |
| 1551 | 2.1 | | 53.002 |
| 1600 | 8.3 | 13.2 | 212.357 |
| 1670 | 4.6 | 7.4 | 118.477 |
| 1700 | 7.0 | 11.1 | 178.638 |
| 1780 | 1.8 | 2.9 | 46.318 |
| 1800 | 6.0 | 9.5 | 153.834 |
| 1851 | 2.2 | 3.5 | 56.645 |
| 1900 | 5.4 | 8.5 | 137.771 |
| 2000 | 4.4 | 6.9 | 111.035 |
| 2100 | 3.8 | 5.9 | 95.642 |
| 2200 | 3.3 | 5.2 | 84.056 |
| 2300 | 2.8 | 4.4 | 71.516 |
| 2400 | 2.4 | 3.8 | 60.760 |
| 2500 | 2.0 | 3.2 | 51.287 |
| 2600 | 1.9 | 3.0 | 48.916 |
| 2700 | 1.5 | 2.4 | 38.662 |
| 2800 | .9 | 1.4 | 22.270 |
| 2900 | 1.3 | 2.0 | 32.339 |
| 3000 | 1.5 | 2.4 | 38.093 |
| 3100 | 1.2 | 1.9 | 30.588 |
| 3200 | .9 | 1.4 | 22.483 |
| PR/PH | 2.558 | | |
| PR/1700 | .663 | | |
| PH/1800 | .301 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 8.436 | | |

TABLE 3.F CONT. 1D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL. NO. 6

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 6.6 | | 167.393 |
| 1300 | 10.1 | | 254.850 |
| 1356 | 6.7 | | 168.190 |
| 1400 | 8.8 | | 222.044 |
| 1440 | 2.3 | | 58.239 |
| 1500 | 8.4 | | 212.423 |
| 1551 | 1.7 | | 43.775 |
| 1600 | 7.3 | 13.2 | 184.482 |
| 1670 | 4.1 | 7.4 | 103.416 |
| 1700 | 6.2 | 11.2 | 156.922 |
| 1780 | 1.6 | 2.9 | 41.344 |
| 1800 | 5.3 | 9.5 | 133.516 |
| 1851 | 1.8 | 3.3 | 46.336 |
| 1900 | 4.8 | 8.7 | 121.943 |
| 2000 | 3.8 | 6.8 | 95.829 |
| 2100 | 3.1 | 5.7 | 79.581 |
| 2200 | 3.0 | 5.3 | 74.756 |
| 2300 | 2.5 | 4.4 | 62.212 |
| 2400 | 2.0 | 3.7 | 51.748 |
| 2500 | 1.8 | 3.3 | 46.131 |
| 2600 | 1.6 | 3.0 | 41.668 |
| 2700 | 1.3 | 2.4 | 33.036 |
| 2800 | 1.1 | 2.0 | 27.655 |
| 2900 | 1.1 | 1.9 | 26.586 |
| 3000 | 1.2 | 2.1 | 29.762 |
| 3100 | 1.0 | 1.8 | 25.682 |
| 3200 | .8 | 1.4 | 19.433 |
| PR/PH | 2.501 | | |
| PR/1700 | .659 | | |
| PH/1800 | .310 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.365 | |

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TABLE 3.f CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL. NO. 1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 4.9 | | 376.875 |
| 1356 | 4.1 | | 312.806 |
| 1400 | 5.9 | | 454.101 |
| 1440 | 4.1 | | 318.856 |
| 1500 | 7.1 | | 545.540 |
| 1551 | 4.1 | | 315.092 |
| 1600 | 6.5 | 9.3 | 503.852 |
| 1670 | 4.4 | 6.3 | 339.446 |
| 1700 | 6.4 | 9.2 | 495.606 |
| 1780 | 1.8 | 2.6 | 137.614 |
| 1800 | 5.6 | 8.1 | 435.175 |
| 1851 | 2.7 | 3.9 | 210.104 |
| 1900 | 5.3 | 7.6 | 410.275 |
| 2000 | 4.6 | 6.5 | 351.931 |
| 2100 | 4.3 | 6.1 | 328.291 |
| 2200 | 4.0 | 5.7 | 308.002 |
| 2300 | 3.8 | 5.4 | 293.397 |
| 2400 | 3.6 | 5.2 | 280.666 |
| 2500 | 2.6 | 3.8 | 203.183 |
| 2600 | 2.8 | 4.0 | 213.553 |
| 2700 | 2.3 | 3.3 | 179.656 |
| 2800 | 1.8 | 2.6 | 140.058 |
| 2900 | 2.1 | 3.0 | 160.999 |
| 3000 | 1.9 | 2.8 | 149.039 |
| 3100 | 1.7 | 2.4 | 130.523 |
| 3200 | 1.5 | 2.2 | 117.570 |

PR/PH 2.467

PR/1700 .685

PH/1800 .316

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.856

TABLE 3.F CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL. NO. 2

| NAME ----- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|---------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 4.8 | | 147.545 |
| 1300 | 7.2 | | 222.198 |
| 1356 | 5.2 | | 160.067 |
| 1400 | 8.3 | | 257.110 |
| 1440 | 2.3 | | 72.466 |
| 1500 | 8.8 | | 272.801 |
| 1551 | 1.9 | | 59.679 |
| 1600 | 8.0 | 13.0 | 246.156 |
| 1670 | 4.5 | 7.3 | 139.193 |
| 1700 | 6.9 | 11.3 | 214.174 |
| 1780 | 1.8 | 2.9 | 55.524 |
| 1800 | 5.9 | 9.6 | 182.476 |
| 1851 | 2.1 | 3.4 | 63.563 |
| 1900 | 5.2 | 8.4 | 159.431 |
| 2000 | 4.2 | 6.8 | 129.290 |
| 2100 | 3.5 | 5.7 | 108.021 |
| 2200 | 3.2 | 5.2 | 98.354 |
| 2300 | 2.8 | 4.5 | 85.818 |
| 2400 | 2.3 | 3.8 | 71.211 |
| 2500 | 1.9 | 3.1 | 58.649 |
| 2600 | 1.9 | 3.0 | 57.439 |
| 2700 | 1.5 | 2.4 | 45.439 |
| 2800 | 1.2 | 2.0 | 38.198 |
| 2900 | 1.2 | 2.0 | 37.923 |
| 3000 | 1.3 | 2.1 | 39.483 |
| 3100 | 1.2 | 1.9 | 36.854 |
| 3200 | .9 | 1.4 | 27.113 |

TABLE 3.F CONT. 'D

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PR/PH 2.507

PR/1700 .650

PH/1800 .304

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.402

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAO, REPL. NO. 1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 6.5 | | 166.154 |
| 1300 | 8.4 | | 214.936 |
| 1356 | 6.6 | | 167.286 |
| 1400 | 8.6 | | 218.739 |
| 1440 | 2.2 | | 56.356 |
| 1500 | 8.5 | | 215.473 |
| 1551 | 1.9 | | 49.068 |
| 1600 | 7.4 | 13.0 | 189.632 |
| 1670 | 4.2 | 7.3 | 106.871 |
| 1700 | 6.3 | 11.0 | 160.344 |
| 1780 | 1.7 | 2.9 | 42.315 |
| 1800 | 5.5 | 9.6 | 139.784 |
| 1851 | 2.0 | 3.4 | 50.261 |
| 1900 | 4.8 | 8.4 | 122.781 |
| 2000 | 4.0 | 7.0 | 101.803 |
| 2100 | 3.4 | 5.9 | 85.554 |
| 2200 | 3.0 | 5.3 | 77.639 |
| 2300 | 2.6 | 4.5 | 65.373 |
| 2400 | 2.2 | 3.8 | 55.352 |
| 2500 | 1.8 | 3.1 | 44.842 |
| 2600 | 1.7 | 3.0 | 44.415 |
| 2700 | 1.4 | 2.4 | 35.648 |
| 2800 | 1.2 | 2.1 | 30.607 |
| 2900 | 1.2 | 2.0 | 29.333 |
| 3000 | 1.2 | 2.1 | 30.146 |
| 3100 | 1.1 | 1.9 | 27.107 |
| 3200 | .8 | 1.4 | 21.047 |
| PR/PH | 2.526 | | |
| PR/1700 | .667 | | |
| PH/1800 | .303 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 8.455 | | |

TABLE 3.F CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUA0, REPL. NO. 2

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 6.2 | | 114.998 |
| 1356 | 5.0 | | 92.022 |
| 1400 | 7.9 | | 146.624 |
| 1440 | 2.4 | | 43.603 |
| 1500 | 8.9 | | 165.235 |
| 1551 | 2.0 | | 37.585 |
| 1600 | 8.4 | 12.4 | 154.768 |
| 1670 | 4.9 | 7.3 | 90.642 |
| 1700 | 7.5 | 11.1 | 138.917 |
| 1780 | 2.0 | 3.0 | 37.818 |
| 1800 | 6.5 | 9.6 | 119.936 |
| 1851 | 2.2 | 3.3 | 40.957 |
| 1900 | 5.8 | 8.6 | 107.626 |
| 2000 | 4.7 | 6.9 | 86.175 |
| 2100 | 3.9 | 5.8 | 71.775 |
| 2200 | 3.6 | 5.3 | 66.254 |
| 2300 | 3.1 | 4.6 | 56.861 |
| 2400 | 2.6 | 3.8 | 47.727 |
| 2500 | 2.1 | 3.1 | 38.998 |
| 2600 | 2.1 | 3.0 | 37.902 |
| 2700 | 1.6 | 2.4 | 30.247 |
| 2800 | 1.4 | 2.1 | 25.764 |
| 2900 | 1.4 | 2.0 | 25.173 |
| 3000 | 1.4 | 2.1 | 26.492 |
| 3100 | 1.5 | 2.2 | 26.951 |
| 3200 | .9 | 1.3 | 16.049 |
| PR/PH | 2.397 | | |
| PR/1700 | .652 | | |
| PH/1800 | .315 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 8.389 | | |

TABLE 3.F CONT. 1D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAP, REPL. NO. 1

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 4.8 | | 314.303 |
| 1400 | 6.4 | | 419.334 |
| 1440 | 1.2 | | 82.009 |
| 1500 | 7.3 | | 477.156 |
| 1551 | 3.0 | | 199.311 |
| 1600 | 6.0 | 7.8 | 397.172 |
| 1670 | 4.6 | 5.9 | 302.047 |
| 1700 | 7.0 | 9.1 | 460.995 |
| 1780 | 1.9 | 2.4 | 122.890 |
| 1800 | 6.3 | 8.1 | 412.007 |
| 1851 | 3.0 | 3.9 | 199.195 |
| 1900 | 5.9 | 7.6 | 387.900 |
| 2000 | 5.1 | 6.6 | 336.300 |
| 2100 | 4.8 | 6.2 | 316.194 |
| 2200 | 4.6 | 5.9 | 302.300 |
| 2300 | 4.4 | 5.7 | 289.861 |
| 2400 | 4.2 | 5.4 | 273.417 |
| 2500 | 3.1 | 4.0 | 201.006 |
| 2600 | 3.2 | 4.2 | 213.060 |
| 2700 | 2.6 | 3.3 | 169.696 |
| 2800 | 2.1 | 2.8 | 139.844 |
| 2900 | 2.7 | 3.4 | 175.347 |
| 3000 | 2.1 | 2.7 | 139.328 |
| 3100 | 2.2 | 2.8 | 142.101 |
| 3200 | 1.6 | 2.0 | 102.846 |
| PR/PH | 2.458 | | |
| PR/1700 | .655 | | |
| PH/1800 | .298 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 10.494 | | |

TABLE 3.F CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAP, REPL. NO. 2

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 6.5 | | 136.193 |
| 1300 | 8.2 | | 171.759 |
| 1356 | 5.5 | | 114.760 |
| 1400 | 7.8 | | 163.352 |
| 1440 | 2.2 | | 45.917 |
| 1500 | 8.2 | | 171.595 |
| 1551 | 1.7 | | 36.231 |
| 1600 | 7.5 | 12.6 | 156.004 |
| 1670 | 4.3 | 7.2 | 89.639 |
| 1700 | 6.6 | 11.1 | 137.341 |
| 1780 | 1.7 | 2.9 | 36.251 |
| 1800 | 5.7 | 9.6 | 118.807 |
| 1851 | 2.0 | 3.3 | 41.381 |
| 1900 | 5.2 | 8.7 | 108.057 |
| 2000 | 4.1 | 6.9 | 85.807 |
| 2100 | 3.4 | 5.8 | 71.494 |
| 2200 | 3.1 | 5.2 | 64.545 |
| 2300 | 2.7 | 4.5 | 55.976 |
| 2400 | 2.2 | 3.8 | 46.697 |
| 2500 | 2.0 | 3.4 | 41.666 |
| 2600 | 1.8 | 3.0 | 37.815 |
| 2700 | 1.4 | 2.4 | 29.994 |
| 2800 | 1.2 | 2.0 | 25.242 |
| 2900 | 1.2 | 1.9 | 24.093 |
| 3000 | 1.4 | 2.3 | 29.130 |
| 3100 | 1.2 | 2.0 | 24.515 |
| 3200 | .9 | 1.5 | 18.368 |
| PR/PH | 2.473 | | |
| PR/1700 | .653 | | |
| PH/1800 | .305 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 8.544 | | |

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TABLE 3.F CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL. NO. 3

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 5.5 | | 144.254 |
| 1300 | 8.6 | | 225.754 |
| 1356 | 5.0 | | 131.851 |
| 1400 | 8.1 | | 212.871 |
| 1440 | 2.2 | | 58.259 |
| 1500 | 8.8 | | 229.766 |
| 1551 | 1.9 | | 48.688 |
| 1600 | 7.7 | 12.8 | 200.369 |
| 1670 | 4.4 | 7.3 | 114.883 |
| 1700 | 6.7 | 11.1 | 174.363 |
| 1780 | 1.7 | 2.9 | 44.992 |
| 1800 | 5.7 | 9.5 | 149.497 |
| 1851 | 2.1 | 3.5 | 54.564 |
| 1900 | 5.3 | 8.8 | 137.910 |
| 2000 | 4.1 | 6.9 | 108.118 |
| 2100 | 3.5 | 5.9 | 92.377 |
| 2200 | 3.2 | 5.3 | 83.169 |
| 2300 | 2.7 | 4.5 | 70.289 |
| 2400 | 2.3 | 3.8 | 59.545 |
| 2500 | 1.9 | 3.1 | 49.116 |
| 2600 | 1.9 | 3.1 | 48.449 |
| 2700 | 1.5 | 2.4 | 38.056 |
| 2800 | .9 | 1.4 | 22.331 |
| 2900 | 1.2 | 2.0 | 31.450 |
| 3000 | 1.2 | 2.1 | 32.523 |
| 3100 | 1.2 | 1.9 | 30.475 |
| 3200 | .9 | 1.5 | 23.526 |
| PR/PH | 2.553 | | |
| PR/1700 | .659 | | |
| PH/1800 | .301 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.454 | |

TABLE 3.F CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL. NO. 4

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 4.3 | | 290.726 |
| 1400 | 6.2 | | 423.140 |
| 1440 | 1.5 | | 99.819 |
| 1500 | 7.3 | | 496.348 |
| 1551 | 3.1 | | 209.544 |
| 1600 | 6.3 | 8.1 | 429.893 |
| 1670 | 4.6 | 5.9 | 313.728 |
| 1700 | 7.2 | 9.3 | 491.164 |
| 1780 | 1.8 | 2.4 | 124.721 |
| 1800 | 6.4 | 8.2 | 436.753 |
| 1851 | 3.1 | 4.0 | 209.943 |
| 1900 | 6.2 | 7.9 | 420.429 |
| 2000 | 5.3 | 6.9 | 364.107 |
| 2100 | 4.7 | 6.0 | 319.028 |
| 2200 | 3.9 | 5.0 | 265.564 |
| 2300 | 4.5 | 5.8 | 307.711 |
| 2400 | 4.3 | 5.5 | 291.582 |
| 2500 | 2.8 | 3.5 | 188.284 |
| 2600 | 3.3 | 4.3 | 225.864 |
| 2700 | 2.6 | 3.3 | 174.281 |
| 2800 | 2.3 | 2.9 | 154.261 |
| 2900 | 2.7 | 3.5 | 187.493 |
| 3000 | 2.2 | 2.9 | 152.812 |
| 3100 | 2.1 | 2.7 | 144.970 |
| 3200 | 1.5 | 1.9 | 103.338 |
| PR/PH | 2.515 | | |
| PR/1700 | .639 | | |
| PH/1800 | .286 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 10.623 | | |

TABLE 3.f CONT. 'D

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TABLE 3.f CONT.'D

Summary for Cruise 6 succession:B. Aromatic Fraction Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|--|
| 1 | 615 | (RUAN-5), 0 |
| 2 | 616 | (RUAN-5), 0 |
| 3 | 611 | (RUAN-1), 81 |
| 4 | 612 | (RUAN-2), 81 |
| 5 | 621 | (RUAD-1), 81 |
| 6 | 622 | (RUAD-2), 81 |
| 7 | 631 | (RUAD-1), 81 |
| 8 | 632 | (RUAD-2), 81 |
| 9 | 613 | (RUAN-3), Sterile Weathering Control (81-day) |
| 10 | 614 | (RUAN-4), Sterile Weathering Control (81-day) |

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL NO. 5

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 6.9 | 1.709 |
| 1910 | 5.9 | 1.456 |
| 1980 | 4.5 | 1.112 |
| 2020 | 24.6 | 6.087 |
| 2060 | 6.0 | 1.494 |
| 2080 | 2.6 | .655 |
| 2110 | 1.8 | .439 |
| 2130 | 11.1 | 2.743 |
| 2170 | 7.6 | 1.894 |
| 2210 | 5.2 | 1.287 |
| 2220 | 1.4 | .345 |
| 2240 | 4.2 | 1.048 |
| 2290 | 1.5 | .372 |
| 2310 | 1.3 | .323 |
| 2430 | 8.3 | 2.068 |
| 2520 | 7.1 | 1.749 |

TABLE 3.F CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL NO. 6

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | .8 | .134 |
| 1980 | 4.3 | .698 |
| 2020 | 18.8 | 3.089 |
| 2060 | 5.1 | .832 |
| 2080 | 4.6 | .761 |
| 2110 | 2.0 | .330 |
| 2130 | 15.2 | 2.494 |
| 2170 | 11.3 | 1.862 |
| 2210 | 7.6 | 1.241 |
| 2220 | 1.2 | .201 |
| 2240 | 5.2 | .856 |
| 2290 | 1.7 | .276 |
| 2310 | 3.2 | .527 |
| 2430 | 11.1 | 1.829 |
| 2520 | 7.8 | 1.276 |

TABLE 3.F CONT.'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL NO. 1

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 5.9 | 4.525 |
| 1910 | 4.2 | 3.192 |
| 1980 | 8.0 | 6.107 |
| 2020 | 21.9 | 16.842 |
| 2060 | 4.6 | 3.522 |
| 2080 | 2.8 | 2.133 |
| 2110 | 0.0 | 0.000 |
| 2130 | 20.3 | 15.563 |
| 2170 | 7.7 | 5.895 |
| 2210 | 6.0 | 4.612 |
| 2220 | .2 | .158 |
| 2240 | 2.4 | 1.870 |
| 2290 | .5 | .373 |
| 2310 | 1.9 | 1.450 |
| 2430 | 8.4 | 6.460 |
| 2520 | 5.3 | 4.082 |

TABLE 3.F CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL NO. 2

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|-------|
| 1750 | 0.0 | 0.000 |
| 1870 | 6.9 | 2.218 |
| 1910 | 5.6 | 1.793 |
| 1980 | 6.7 | 2.159 |
| 2020 | 25.0 | 8.065 |
| 2060 | 6.2 | 2.001 |
| 2080 | 3.9 | 1.257 |
| 2110 | 2.3 | .748 |
| 2130 | 11.4 | 3.674 |
| 2170 | 9.2 | 2.949 |
| 2210 | 5.6 | 1.802 |
| 2220 | 1.1 | .368 |
| 2240 | 3.2 | 1.040 |
| 2290 | 1.3 | .405 |
| 2310 | 3.0 | .974 |
| 2430 | 6.5 | 2.089 |
| 2520 | 2.1 | .668 |

TABLE 3.f CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUA0, REPL NO. 1

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 9.3 | 2.365 |
| 1910 | 7.5 | 1.916 |
| 1980 | 5.3 | 1.353 |
| 2020 | 26.3 | 6.722 |
| 2060 | 6.0 | 1.540 |
| 2080 | 2.5 | .633 |
| 2110 | 2.0 | .509 |
| 2130 | 10.7 | 2.733 |
| 2170 | 7.4 | 1.887 |
| 2210 | 4.6 | 1.178 |
| 2220 | 1.6 | .402 |
| 2240 | 3.2 | .809 |
| 2290 | 1.3 | .333 |
| 2310 | 1.2 | .299 |
| 2430 | 7.0 | 1.792 |
| 2520 | 4.2 | 1.069 |

TABLE 3.F CONT.'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUA0, REPL NO. 2

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | 0.0 | 0.000 |
| 1980 | 4.6 | .388 |
| 2020 | 11.8 | .995 |
| 2060 | 3.1 | .262 |
| 2080 | 5.3 | .447 |
| 2110 | 1.7 | .141 |
| 2130 | 15.9 | 1.346 |
| 2170 | 11.6 | .983 |
| 2210 | 8.1 | .680 |
| 2220 | 1.4 | .122 |
| 2240 | 6.5 | .546 |
| 2290 | 1.5 | .131 |
| 2310 | 6.9 | .583 |
| 2430 | 14.5 | 1.224 |
| 2520 | 7.1 | .599 |

TABLE 3.F CONT.'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAP, REPL NO. 1

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 5.9 | 3.748 |
| 1910 | 3.8 | 2.413 |
| 1980 | 7.3 | 4.608 |
| 2020 | 21.3 | 13.509 |
| 2060 | 4.4 | 2.763 |
| 2080 | 2.5 | 1.590 |
| 2110 | 0.0 | 0.000 |
| 2130 | 20.9 | 13.223 |
| 2170 | 8.0 | 5.100 |
| 2210 | 5.8 | 3.692 |
| 2220 | .2 | .123 |
| 2240 | 2.5 | 1.583 |
| 2290 | .5 | .332 |
| 2310 | 1.5 | .962 |
| 2430 | 9.7 | 6.143 |
| 2520 | 5.6 | 3.576 |

TABLE 3.F CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAP, REPL NO. 2

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 8.2 | 1.361 |
| 1910 | 6.4 | 1.060 |
| 1980 | 6.1 | 1.014 |
| 2020 | 24.4 | 4.029 |
| 2060 | 5.9 | .982 |
| 2080 | 3.7 | .607 |
| 2110 | 2.0 | .326 |
| 2130 | 11.0 | 1.822 |
| 2170 | 8.3 | 1.367 |
| 2210 | 5.1 | .835 |
| 2220 | .9 | .156 |
| 2240 | 4.3 | .703 |
| 2290 | 1.2 | .199 |
| 2310 | 3.3 | .549 |
| 2430 | 6.9 | 1.133 |
| 2520 | 2.3 | .373 |

TABLE 3.f CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL NO. 3

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 6.2 | 1.097 |
| 1910 | 6.0 | 1.064 |
| 1980 | 4.2 | .732 |
| 2020 | 25.1 | 4.414 |
| 2060 | 6.1 | 1.068 |
| 2080 | 2.8 | .489 |
| 2110 | 1.8 | .317 |
| 2130 | 11.8 | 2.074 |
| 2170 | 8.1 | 1.422 |
| 2210 | 4.9 | .867 |
| 2220 | 1.6 | .277 |
| 2240 | 3.9 | .686 |
| 2290 | 1.5 | .265 |
| 2310 | 2.5 | .438 |
| 2430 | 8.5 | 1.502 |
| 2520 | 5.1 | .903 |

TABLE 3.F CONT. 'D

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RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAN, REPL NO. 4

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | .5 | .285 |
| 1870 | 4.8 | 2.997 |
| 1910 | 3.2 | 2.006 |
| 1980 | 6.1 | 3.841 |
| 2020 | 19.8 | 12.462 |
| 2060 | 4.1 | 2.594 |
| 2080 | 2.5 | 1.560 |
| 2110 | 0.0 | 0.000 |
| 2130 | 21.3 | 13.385 |
| 2170 | 8.4 | 5.293 |
| 2210 | 6.1 | 3.849 |
| 2220 | .2 | .127 |
| 2240 | 1.9 | 1.166 |
| 2290 | .3 | .207 |
| 2310 | 3.9 | 2.432 |
| 2430 | 10.8 | 6.767 |
| 2520 | 6.1 | 3.836 |

TABLE 3.F CONT.'D

G-298

TABLE 3.g

Summary for Cruise 7 succession:

A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|------------------|
| 1 | 711 | (RUBA-1), 0 |
| 2 | 712 | (RUBA-2), 0 |
| 3 | 723 | (RUBA-3), 100 |
| 4 | 724 | (RUBA-4), 100 |
| 5 | 733 | (RUBC-3), 100 |
| 6 | 734 | (RUBC-4), 100 |
| 7 | B711 | (RUBD-1), 0 |
| 8 | B712 | (RUBD-2), 0 |
| 9 | B715 | (RUBD-5), 100 |
| 10 | B716 | (RUBD-6), 100 |
| 11 | B723 | (RUBE-3), 100 |
| 12 | B724 | (RUBE-3), 100 |
| 13 | B733 | (RUBF-3), 100 |
| 14 | B734 | (RUBF-4), 100 |
| 15 | C711(1.0) | (RUBG-1), 0 |
| 16 | C712(1.0) | (RUBG-2), 0 |
| 17 | C711(0.5) | (RUBG-3), 0 |
| 18 | C712(0.5) | (RUBG-4), 0 |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 4.4 | | 331.395 |
| 1400 | 8.2 | | 624.442 |
| 1440 | 1.9 | | 143.596 |
| 1500 | 7.8 | | 591.159 |
| 1551 | 3.1 | | 234.546 |
| 1600 | 6.3 | 8.5 | 478.965 |
| 1620 | 1.0 | 1.3 | 74.726 |
| 1670 | 4.4 | 5.8 | 330.956 |
| 1700 | 6.8 | 9.2 | 518.829 |
| 1780 | 1.7 | 2.3 | 128.221 |
| 1800 | 6.1 | 8.2 | 463.153 |
| 1851 | 2.3 | 3.1 | 174.762 |
| 1900 | 5.7 | 7.7 | 434.854 |
| 2000 | 5.1 | 6.8 | 383.460 |
| 2100 | 4.8 | 6.5 | 366.433 |
| 2200 | 3.6 | 4.8 | 270.515 |
| 2300 | 4.0 | 5.3 | 300.143 |
| 2400 | 4.0 | 5.3 | 302.443 |
| 2500 | 3.0 | 4.1 | 229.638 |
| 2600 | 3.4 | 4.6 | 257.648 |
| 2700 | 2.4 | 3.3 | 185.114 |
| 2800 | 2.1 | 2.9 | 162.552 |
| 2900 | 2.6 | 3.4 | 194.886 |
| 3000 | 2.0 | 2.6 | 149.114 |
| 3100 | 1.9 | 2.6 | 146.501 |
| 3200 | 1.4 | 1.9 | 109.229 |
| TOTAL WEIGHT | | | 7587.279 |
| PR/PH | 2.581 | | |
| PR/1700 | .638 | | |
| PH/1800 | .277 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 10.788 | |

TABLE 3.8 CONT. 'D

G-302

TABLE 3. g CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 10.3 | | 280.269 |
| 1356 | 3.2 | | 85.727 |
| 1400 | 9.8 | | 264.748 |
| 1440 | 2.5 | | 69.172 |
| 1500 | 9.3 | | 252.950 |
| 1551 | 1.8 | | 50.077 |
| 1600 | 8.1 | 12.9 | 220.049 |
| 1620 | 1.9 | 2.9 | 50.430 |
| 1670 | 4.5 | 7.1 | 120.927 |
| 1700 | 6.9 | 11.0 | 187.787 |
| 1780 | 1.8 | 2.8 | 47.744 |
| 1800 | 5.9 | 9.3 | 159.805 |
| 1851 | 2.0 | 3.2 | 54.239 |
| 1900 | 5.2 | 8.3 | 142.025 |
| 2000 | 4.2 | 6.6 | 112.822 |
| 2100 | 3.5 | 5.5 | 94.082 |
| 2200 | 3.2 | 5.0 | 86.228 |
| 2300 | 2.8 | 4.4 | 74.643 |
| 2400 | 2.3 | 3.6 | 61.845 |
| 2500 | 1.9 | 3.1 | 52.449 |
| 2600 | 1.8 | 2.9 | 49.950 |
| 2700 | 1.5 | 2.3 | 39.431 |
| 2800 | 1.2 | 2.0 | 33.726 |
| 2900 | 1.2 | 2.0 | 33.432 |
| 3000 | 1.3 | 2.0 | 34.296 |
| 3100 | 1.2 | 1.8 | 31.563 |
| 3200 | .9 | 1.4 | 23.361 |
| TOTAL WEIGHT | | | 2713.777 |
| PR/PH | 2.533 | | |
| PR/1700 | .644 | | |
| PH/1800 | .299 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.522 | |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 2.7 | | 109.427 |
| 1253 | 2.7 | | 106.803 |
| 1300 | 4.2 | | 170.032 |
| 1356 | 4.5 | | 181.265 |
| 1400 | 7.2 | | 289.810 |
| 1440 | 2.6 | | 103.847 |
| 1500 | 8.6 | | 344.639 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 8.6 | 12.8 | 345.175 |
| 1620 | 2.1 | 3.1 | 83.666 |
| 1670 | 4.7 | 7.0 | 189.075 |
| 1700 | 7.8 | 11.5 | 310.906 |
| 1780 | 1.8 | 2.7 | 72.976 |
| 1800 | 6.5 | 9.7 | 261.490 |
| 1851 | 2.2 | 3.2 | 87.239 |
| 1900 | 6.1 | 9.1 | 245.982 |
| 2000 | 4.8 | 7.1 | 190.910 |
| 2100 | 3.9 | 5.8 | 157.870 |
| 2200 | 3.5 | 5.2 | 140.719 |
| 2300 | 2.9 | 4.3 | 115.391 |
| 2400 | 2.4 | 3.5 | 95.003 |
| 2500 | 1.9 | 2.8 | 76.546 |
| 2600 | 1.9 | 2.8 | 74.818 |
| 2700 | 1.4 | 2.1 | 56.460 |
| 2800 | .9 | 1.3 | 34.768 |
| 2900 | 1.1 | 1.6 | 43.917 |
| 3000 | 1.2 | 1.8 | 47.317 |
| 3100 | .9 | 1.3 | 35.284 |
| 3200 | .8 | 1.2 | 33.275 |
| TOTAL WEIGHT | | | 4004.613 |
| PR/PH | 2.591 | | |
| PR/1700 | .608 | | |
| PH/1800 | .279 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 8.647 | | |

TABLE 3.8 CONT. 'D

G-304

| NAME ---- | PERCENT COMPOSITION | | COMPOONENT WEIGHT IN UG. |
|--------------|---------------------|----------------------------|-----------------------------|
| | 1100-3200 | PERCENTAGE OF 1600-3200 | |
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 4.1 | | 271.912 |
| 1253 | 4.0 | | 260.061 |
| 1300 | 7.0 | | 459.662 |
| 1356 | 3.9 | | 254.633 |
| 1400 | 8.8 | | 578.183 |
| 1440 | 4.8 | | 315.060 |
| 1500 | 8.0 | | 522.141 |
| 1551 | .2 | | 11.875 |
| 1600 | 7.8 | 13.1 | 509.782 |
| 1620 | 2.7 | 4.5 | 175.835 |
| 1670 | 3.9 | 6.6 | 257.428 |
| 1700 | 6.5 | 11.0 | 428.486 |
| 1780 | 1.5 | 2.5 | 98.144 |
| 1800 | 5.5 | 9.2 | 358.838 |
| 1851 | 1.3 | 2.2 | 87.286 |
| 1900 | 5.3 | 9.0 | 348.820 |
| 2000 | 4.2 | 7.0 | 274.168 |
| 2100 | 3.3 | 5.6 | 217.687 |
| 2200 | 3.2 | 5.4 | 208.532 |
| 2300 | 2.6 | 4.4 | 172.416 |
| 2400 | 2.2 | 3.7 | 145.420 |
| 2500 | 1.8 | 3.0 | 118.185 |
| 2600 | 1.8 | 3.0 | 117.073 |
| 2700 | 1.3 | 2.2 | 84.141 |
| 2800 | .9 | 1.5 | 56.719 |
| 2900 | 1.0 | 1.7 | 64.654 |
| 3000 | .9 | 1.6 | 62.107 |
| 3100 | .8 | 1.4 | 52.739 |
| 3200 | .8 | 1.4 | 53.605 |

TABLE 3.8 CONT. 'D

TOTAL WEIGHT

6565.594

PR/PH

2.623

PR/1700

.601

PH/1800

.274

SUM OF THE N-ALKANES 1600-3200 / PR+PH

9.206

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 6.3 | | 323.670 |
| 1253 | 4.6 | | 236.452 |
| 1300 | 7.2 | | 372.106 |
| 1356 | 5.5 | | 281.363 |
| 1400 | 7.7 | | 397.492 |
| 1440 | 2.5 | | 130.533 |
| 1500 | 7.5 | | 388.107 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 7.7 | 13.2 | 397.709 |
| 1620 | 2.8 | 4.8 | 144.002 |
| 1670 | 4.2 | 7.2 | 217.337 |
| 1700 | 6.7 | 11.4 | 344.573 |
| 1780 | 1.6 | 2.7 | 80.859 |
| 1800 | 5.6 | 9.5 | 286.108 |
| 1851 | 1.4 | 2.3 | 69.490 |
| 1900 | 5.1 | 8.6 | 260.319 |
| 2000 | 4.0 | 6.8 | 204.220 |
| 2100 | 3.0 | 5.1 | 152.536 |
| 2200 | 2.9 | 4.9 | 148.348 |
| 2300 | 2.5 | 4.2 | 127.622 |
| 2400 | 2.1 | 3.5 | 105.802 |
| 2500 | 1.6 | 2.8 | 83.163 |
| 2600 | 1.7 | 2.8 | 85.135 |
| 2700 | 1.3 | 2.1 | 64.352 |
| 2800 | .9 | 1.5 | 44.714 |
| 2900 | .8 | 1.3 | 39.325 |
| 3000 | 1.1 | 1.9 | 57.617 |
| 3100 | 1.1 | 1.9 | 55.864 |
| 3200 | .8 | 1.4 | 42.236 |

TOTAL WEIGHT

5141.053

PR/PH 2.688

PR/1700 .631

PH/1800 .283

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.383

TABLE 3.8 CONT. 'D

G-306

TABLE 3.8 CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 4.0 | | 185.610 |
| 1253 | 3.3 | | 152.748 |
| 1300 | 5.4 | | 251.291 |
| 1356 | 4.5 | | 208.805 |
| 1400 | 7.2 | | 333.821 |
| 1440 | 2.4 | | 113.372 |
| 1500 | 8.3 | | 386.776 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 8.1 | 12.4 | 375.942 |
| 1620 | 2.9 | 4.4 | 133.732 |
| 1670 | 4.3 | 6.5 | 198.411 |
| 1700 | 7.3 | 11.2 | 341.254 |
| 1780 | 1.7 | 2.6 | 79.115 |
| 1800 | 6.1 | 9.4 | 286.139 |
| 1851 | 2.0 | 3.1 | 93.927 |
| 1900 | 5.9 | 9.1 | 274.787 |
| 2000 | 4.5 | 6.9 | 210.257 |
| 2100 | 3.8 | 5.8 | 176.520 |
| 2200 | 3.2 | 5.0 | 151.203 |
| 2300 | 2.7 | 4.2 | 126.032 |
| 2400 | 2.2 | 3.5 | 104.994 |
| 2500 | 1.9 | 2.9 | 87.238 |
| 2600 | 1.8 | 2.8 | 83.939 |
| 2700 | 1.4 | 2.1 | 64.274 |
| 2800 | .9 | 1.4 | 41.319 |
| 2900 | 1.1 | 1.7 | 50.720 |
| 3000 | 1.0 | 1.6 | 47.832 |
| 3100 | 1.0 | 1.5 | 45.994 |
| 3200 | 1.3 | 2.0 | 61.044 |

TOTAL WEIGHT 4667.097

PR/PH 2.508

PR/1700 .581

PH/1800 .276

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.114

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 7.1 | | 183.715 |
| 1400 | 12.3 | | 316.277 |
| 1440 | 4.1 | | 104.477 |
| 1500 | 9.9 | | 254.511 |
| 1551 | .5 | | 13.289 |
| 1600 | 8.5 | 12.9 | 218.850 |
| 1620 | 1.9 | 2.9 | 49.261 |
| 1670 | 4.7 | 7.1 | 121.108 |
| 1700 | 7.2 | 10.8 | 184.660 |
| 1780 | 2.0 | 3.1 | 52.073 |
| 1800 | 6.2 | 9.4 | 160.194 |
| 1851 | 2.2 | 3.4 | 57.846 |
| 1900 | 5.5 | 8.3 | 141.679 |
| 2000 | 4.3 | 6.6 | 111.902 |
| 2100 | 3.6 | 5.5 | 93.460 |
| 2200 | 3.4 | 5.1 | 86.710 |
| 2300 | 2.8 | 4.3 | 73.074 |
| 2400 | 2.3 | 3.5 | 60.427 |
| 2500 | 1.8 | 2.7 | 46.788 |
| 2600 | 1.9 | 2.9 | 48.907 |
| 2700 | 1.5 | 2.3 | 39.180 |
| 2800 | 1.3 | 1.9 | 32.506 |
| 2900 | 1.5 | 2.2 | 37.928 |
| 3000 | 1.3 | 1.9 | 32.491 |
| 3100 | 1.2 | 1.9 | 32.080 |
| 3200 | .8 | 1.3 | 21.595 |

TOTAL WEIGHT

2574.987

PR/PH 2.326

PR/1700 .656

PH/1800 .325

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.214

TABLE 3.g CONT. 'D

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TABLE 3-g CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 7.0 | | 206.836 |
| 1300 | 8.4 | | 249.496 |
| 1356 | 6.6 | | 196.409 |
| 1400 | 8.9 | | 265.325 |
| 1440 | 2.2 | | 64.134 |
| 1500 | 8.4 | | 249.708 |
| 1551 | 1.8 | | 53.194 |
| 1600 | 7.3 | 12.8 | 216.301 |
| 1620 | 1.6 | 2.9 | 48.788 |
| 1670 | 4.0 | 7.1 | 119.853 |
| 1700 | 6.3 | 11.0 | 185.875 |
| 1780 | 1.7 | 2.9 | 49.660 |
| 1800 | 5.3 | 9.4 | 158.229 |
| 1851 | 1.8 | 3.2 | 53.941 |
| 1900 | 4.7 | 8.2 | 138.333 |
| 2000 | 3.8 | 6.6 | 111.605 |
| 2100 | 3.1 | 5.5 | 93.139 |
| 2200 | 2.9 | 5.1 | 85.705 |
| 2300 | 2.5 | 4.4 | 73.411 |
| 2400 | 2.1 | 3.6 | 61.541 |
| 2500 | 1.7 | 3.0 | 50.820 |
| 2600 | 1.6 | 2.9 | 48.837 |
| 2700 | 1.3 | 2.3 | 38.921 |
| 2800 | 1.1 | 2.0 | 33.873 |
| 2900 | 1.1 | 1.9 | 32.156 |
| 3000 | 1.1 | 2.0 | 33.356 |
| 3100 | 1.0 | 1.8 | 30.832 |
| 3200 | .7 | 1.3 | 21.781 |
| TOTAL WEIGHT | | | 2972.057 |
| PR/PH | 2.413 | | |
| PR/1700 | .645 | | |
| PH/1800 | .314 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 8.346 | | |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 0.0 | | 0.000 |
| 1440 | 44.9 | | 11.879 |
| 1500 | 0.0 | | 0.000 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 0.0 | 0.0 | 0.000 |
| 1620 | 34.9 | 63.3 | 9.223 |
| 1670 | 0.0 | 0.0 | 0.000 |
| 1700 | 0.0 | 0.0 | 0.000 |
| 1780 | 0.0 | 0.0 | 0.000 |
| 1800 | 0.0 | 0.0 | 0.000 |
| 1851 | 20.2 | 36.7 | 5.344 |
| 1900 | 0.0 | 0.0 | 0.000 |
| 2000 | 0.0 | 0.0 | 0.000 |
| 2100 | 0.0 | 0.0 | 0.000 |
| 2200 | 0.0 | 0.0 | 0.000 |
| 2300 | 0.0 | 0.0 | 0.000 |
| 2400 | 0.0 | 0.0 | 0.000 |
| 2500 | 0.0 | 0.0 | 0.000 |
| 2600 | 0.0 | 0.0 | 0.000 |
| 2700 | 0.0 | 0.0 | 0.000 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 0.0 | 0.0 | 0.000 |
| 3000 | 0.0 | 0.0 | 0.000 |
| 3100 | 0.0 | 0.0 | 0.000 |
| 3200 | 0.0 | 0.0 | 0.000 |

TOTAL WEIGHT 26.445

PR/PH I

PR/1700 I

PH/1800 I

SUM OF THE N-ALKANES 1600-3200 / PR+PH I

TABLE 3.8 CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RURD, REPL. NO. 6

TABLE 3-g CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 0.0 | | 0.000 |
| 1440 | 16.2 | | 15.578 |
| 1500 | 0.0 | | 0.000 |
| 1551 | 21.9 | | 21.097 |
| 1600 | 0.0 | 0.0 | 0.000 |
| 1620 | 9.6 | 15.6 | 9.263 |
| 1670 | 27.9 | 45.1 | 26.840 |
| 1700 | 0.0 | 0.0 | 0.000 |
| 1780 | 9.9 | 16.0 | 9.501 |
| 1800 | 0.0 | 0.0 | 0.000 |
| 1851 | 7.0 | 11.3 | 6.750 |
| 1900 | 0.0 | 0.0 | 0.000 |
| 2000 | 0.0 | 0.0 | 0.000 |
| 2100 | 0.0 | 0.0 | 0.000 |
| 2200 | 0.0 | 0.0 | 0.000 |
| 2300 | 0.0 | 0.0 | 0.000 |
| 2400 | 0.0 | 0.0 | 0.000 |
| 2500 | 7.4 | 12.0 | 7.125 |
| 2600 | 0.0 | 0.0 | 0.000 |
| 2700 | 0.0 | 0.0 | 0.000 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 0.0 | 0.0 | 0.000 |
| 3000 | 0.0 | 0.0 | 0.000 |
| 3100 | 0.0 | 0.0 | 0.000 |
| 3200 | 0.0 | 0.0 | 0.000 |
| TOTAL WEIGHT | | | 96.155 |
| PR/PH | 2.825 | | |
| PR/1700 | | R | |
| PH/1800 | | R | |

SUM OF THE N-ALKANES 1600-3200 / PR+PH 196

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 0.0 | | 0.000 |
| 1440 | 0.0 | | 0.000 |
| 1500 | 0.0 | | 0.000 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 40.4 | 40.4 | 6.119 |
| 1620 | 0.0 | 0.0 | 0.000 |
| 1670 | 29.0 | 29.0 | 4.396 |
| 1700 | 0.0 | 0.0 | 0.000 |
| 1780 | 0.0 | 0.0 | 0.000 |
| 1800 | 30.6 | 30.6 | 4.640 |
| 1851 | 0.0 | 0.0 | 0.000 |
| 1900 | 0.0 | 0.0 | 0.000 |
| 2000 | 0.0 | 0.0 | 0.000 |
| 2100 | 0.0 | 0.0 | 0.000 |
| 2200 | 0.0 | 0.0 | 0.000 |
| 2300 | 0.0 | 0.0 | 0.000 |
| 2400 | 0.0 | 0.0 | 0.000 |
| 2500 | 0.0 | 0.0 | 0.000 |
| 2600 | 0.0 | 0.0 | 0.000 |
| 2700 | 0.0 | 0.0 | 0.000 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 0.0 | 0.0 | 0.000 |
| 3000 | 0.0 | 0.0 | 0.000 |
| 3100 | 0.0 | 0.0 | 0.000 |
| 3200 | 0.0 | 0.0 | 0.000 |

TOTAL WEIGHT

15.155

PR/PH

R

PR/1700

R

PH/1800

0.000

SUM OF THE N-ALKANES 1600-3200 / PR+PH

2.448

TABLE 3.8 CONT. 'D

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TABLE 3.8 CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 0.0 | | 0.000 |
| 1440 | 40.3 | | 10.785 |
| 1500 | 0.0 | | 0.000 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 0.0 | 0.0 | 0.000 |
| 1620 | 23.4 | 39.3 | 6.268 |
| 1670 | 0.0 | 0.0 | 0.000 |
| 1700 | 0.0 | 0.0 | 0.000 |
| 1780 | 19.9 | 33.3 | 5.308 |
| 1800 | 0.0 | 0.0 | 0.000 |
| 1851 | 0.0 | 0.0 | 0.000 |
| 1900 | 0.0 | 0.0 | 0.000 |
| 2000 | 0.0 | 0.0 | 0.000 |
| 2100 | 0.0 | 0.0 | 0.000 |
| 2200 | 0.0 | 0.0 | 0.000 |
| 2300 | 0.0 | 0.0 | 0.000 |
| 2400 | 0.0 | 0.0 | 0.000 |
| 2500 | 0.0 | 0.0 | 0.000 |
| 2600 | 0.0 | 0.0 | 0.000 |
| 2700 | 0.0 | 0.0 | 0.000 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 0.0 | 0.0 | 0.000 |
| 3000 | 0.0 | 0.0 | 0.000 |
| 3100 | 16.4 | 27.4 | 4.377 |
| 3200 | 0.0 | 0.0 | 0.000 |

TOTAL WEIGHT

26.738

PR/PH 0.000

PR/1700 I

PH/1800 R

SUM OF THE N-ALKANES 1600-3200 / PR+PH .825

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 5.3 | | 319.211 |
| 1253 | 4.3 | | 263.277 |
| 1300 | 7.2 | | 437.173 |
| 1356 | 5.5 | | 334.442 |
| 1400 | 8.3 | | 501.408 |
| 1440 | 2.7 | | 164.351 |
| 1500 | 8.5 | | 517.061 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 7.5 | 12.9 | 456.097 |
| 1620 | 2.6 | 4.5 | 157.163 |
| 1670 | 3.8 | 6.5 | 230.316 |
| 1700 | 6.4 | 11.1 | 390.529 |
| 1780 | 1.5 | 2.5 | 88.423 |
| 1800 | 5.4 | 9.3 | 326.692 |
| 1851 | 1.8 | 3.1 | 108.043 |
| 1900 | 5.1 | 8.8 | 311.158 |
| 2000 | 4.0 | 6.9 | 245.099 |
| 2100 | 3.3 | 5.8 | 202.939 |
| 2200 | 3.0 | 5.2 | 182.481 |
| 2300 | 2.5 | 4.3 | 151.486 |
| 2400 | 2.1 | 3.5 | 125.221 |
| 2500 | 1.7 | 2.9 | 101.029 |
| 2600 | 1.6 | 2.7 | 96.621 |
| 2700 | 1.2 | 2.1 | 72.780 |
| 2800 | 1.0 | 1.7 | 59.444 |
| 2900 | 1.0 | 1.6 | 57.637 |
| 3000 | 1.0 | 1.7 | 59.928 |
| 3100 | .9 | 1.6 | 57.218 |
| 3200 | .8 | 1.3 | 47.558 |

TOTAL WEIGHT

6064.785

PR/PH

2.605

PR/1700

.590

PH/1800

.271

SUM OF THE N-ALKANES 1600-3200 / PR+PH

9.236

TABLE 3.8 CONT. 'D

G-313

G-314

TABLE 3.8 CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 0.9 | | 4.568 |
| 1440 | 11.2 | | 5.742 |
| 1500 | 27.5 | | 14.083 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 0.0 | 0.0 | 0.000 |
| 1620 | 0.0 | 0.0 | 0.000 |
| 1670 | 0.0 | 0.0 | 0.000 |
| 1700 | 0.0 | 0.0 | 0.000 |
| 1780 | 0.0 | 0.0 | 0.000 |
| 1800 | 0.0 | 0.0 | 0.000 |
| 1851 | 0.0 | 0.0 | 0.000 |
| 1900 | 10.1 | 19.3 | 5.160 |
| 2000 | 9.9 | 19.0 | 5.086 |
| 2100 | 6.8 | 13.0 | 3.468 |
| 2200 | 0.0 | 0.0 | 0.000 |
| 2300 | 0.0 | 0.0 | 0.000 |
| 2400 | 0.0 | 0.0 | 0.000 |
| 2500 | 0.0 | 0.0 | 0.000 |
| 2600 | 0.0 | 0.0 | 0.000 |
| 2700 | 0.0 | 0.0 | 0.000 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 0.0 | 0.0 | 0.000 |
| 3000 | 0.0 | 0.0 | 0.000 |
| 3100 | 25.5 | 48.8 | 13.047 |
| 3200 | 0.0 | 0.0 | 0.000 |
| TOTAL WEIGHT | | | 51.155 |
| PR/PH | | I | |
| PR/1700 | | I | |
| PH/1800 | | I | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | R | |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 7.8 | | 2932.082 |
| 1400 | 9.5 | | 3557.627 |
| 1440 | 7.4 | | 2778.484 |
| 1500 | 9.9 | | 3710.530 |
| 1551 | 3.4 | | 1292.141 |
| 1600 | 7.4 | 12.0 | 2783.709 |
| 1620 | 1.8 | 3.0 | 689.044 |
| 1670 | 4.2 | 6.7 | 1560.934 |
| 1700 | 7.0 | 11.3 | 2627.236 |
| 1780 | 1.4 | 2.3 | 529.469 |
| 1800 | 5.8 | 9.4 | 2176.858 |
| 1851 | 2.0 | 3.2 | 744.360 |
| 1900 | 5.2 | 8.3 | 1934.661 |
| 2000 | 4.1 | 6.6 | 1531.719 |
| 2100 | 3.3 | 5.3 | 1240.060 |
| 2200 | 3.2 | 5.1 | 1192.284 |
| 2300 | 2.7 | 4.4 | 1018.019 |
| 2400 | 2.2 | 3.6 | 830.791 |
| 2500 | 1.8 | 2.9 | 674.632 |
| 2600 | 1.9 | 3.0 | 696.052 |
| 2700 | 1.6 | 2.5 | 584.188 |
| 2800 | 1.2 | 2.0 | 461.109 |
| 2900 | 1.5 | 2.4 | 557.983 |
| 3000 | 1.3 | 2.1 | 496.985 |
| 3100 | 1.4 | 2.3 | 535.153 |
| 3200 | .9 | 1.5 | 350.778 |
| TOTAL WEIGHT | | | 37486.887 |
| PR/PH | 2.948 | | |
| PR/1700 | .594 | | |
| PH/1800 | .243 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.420 | | |

TABLE 3. g CONT. 'D

TABLE 3.g CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 9.6 | | 3990.670 |
| 1400 | 9.3 | | 3898.510 |
| 1440 | 7.3 | | 3036.299 |
| 1500 | 9.8 | | 4082.990 |
| 1551 | 3.4 | | 1402.705 |
| 1600 | 7.2 | 11.9 | 3014.155 |
| 1620 | 1.7 | 2.8 | 714.435 |
| 1670 | 4.0 | 6.6 | 1659.924 |
| 1700 | 6.8 | 11.2 | 2838.047 |
| 1780 | 1.4 | 2.2 | 567.535 |
| 1800 | 5.7 | 9.5 | 2394.877 |
| 1851 | 2.0 | 3.2 | 818.544 |
| 1900 | 5.1 | 8.5 | 2142.727 |
| 2000 | 4.0 | 6.7 | 1687.492 |
| 2100 | 3.3 | 5.4 | 1375.485 |
| 2200 | 3.0 | 5.0 | 1271.240 |
| 2300 | 2.7 | 4.5 | 1127.818 |
| 2400 | 2.2 | 3.6 | 913.962 |
| 2500 | 1.8 | 2.9 | 747.095 |
| 2600 | 1.9 | 3.1 | 777.777 |
| 2700 | 1.5 | 2.5 | 641.073 |
| 2800 | 1.3 | 2.1 | 530.414 |
| 2900 | 1.4 | 2.4 | 603.902 |
| 3000 | 1.3 | 2.2 | 557.209 |
| 3100 | 1.3 | 2.1 | 539.607 |
| 3200 | 1.0 | 1.6 | 413.034 |

TOTAL WEIGHT 41747.527

PR/PH 2.925

PR/1700 .585

PH/1800 .237

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.686

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 9.2 | | 1450.446 |
| 1400 | 9.2 | | 1441.840 |
| 1440 | 7.3 | | 1141.742 |
| 1500 | 9.7 | | 1522.471 |
| 1551 | 3.3 | | 517.061 |
| 1600 | 7.2 | 11.8 | 1131.796 |
| 1620 | 1.7 | 2.8 | 268.850 |
| 1670 | 4.1 | 6.7 | 643.406 |
| 1700 | 6.9 | 11.2 | 1081.146 |
| 1780 | 1.5 | 2.4 | 228.060 |
| 1800 | 5.8 | 9.5 | 915.717 |
| 1851 | 2.0 | 3.2 | 308.897 |
| 1900 | 5.2 | 8.5 | 814.526 |
| 2000 | 4.1 | 6.6 | 639.638 |
| 2100 | 3.3 | 5.4 | 521.322 |
| 2200 | 3.1 | 5.1 | 490.514 |
| 2300 | 2.7 | 4.5 | 430.645 |
| 2400 | 2.2 | 3.6 | 349.786 |
| 2500 | 1.8 | 3.0 | 288.498 |
| 2600 | 1.8 | 3.0 | 289.072 |
| 2700 | 1.6 | 2.6 | 253.714 |
| 2800 | 1.2 | 2.0 | 194.321 |
| 2900 | 1.5 | 2.4 | 228.199 |
| 3000 | 1.3 | 2.1 | 203.603 |
| 3100 | 1.2 | 2.0 | 193.594 |
| 3200 | 1.0 | 1.6 | 155.501 |
| TOTAL WEIGHT | | | 15704.365 |
| PR/PH | 2.821 | | |
| PR/1700 | .595 | | |
| PH/1800 | .249 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.388 | | |

TABLE 3.g CONT. 'D

G-318

TABLE 3.8 CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 13.1 | | 2104.095 |
| 1440 | 2.4 | | 391.404 |
| 1500 | 10.5 | | 1674.104 |
| 1551 | 3.8 | | 602.078 |
| 1600 | 7.9 | 11.2 | 1262.827 |
| 1620 | 1.5 | 2.2 | 245.084 |
| 1670 | 4.9 | 6.9 | 777.948 |
| 1700 | 8.0 | 11.4 | 1277.120 |
| 1780 | 1.8 | 2.5 | 280.721 |
| 1800 | 6.8 | 9.8 | 1095.712 |
| 1851 | 2.3 | 3.2 | 363.487 |
| 1900 | 6.0 | 8.6 | 966.583 |
| 2000 | 4.8 | 6.8 | 765.507 |
| 2100 | 3.9 | 5.5 | 619.871 |
| 2200 | 3.6 | 5.1 | 578.040 |
| 2300 | 3.2 | 4.6 | 512.184 |
| 2400 | 2.5 | 3.6 | 405.659 |
| 2500 | 2.1 | 2.9 | 328.867 |
| 2600 | 2.2 | 3.2 | 357.827 |
| 2700 | 2.0 | 2.9 | 325.207 |
| 2800 | 1.6 | 2.2 | 248.439 |
| 2900 | 1.6 | 2.3 | 254.436 |
| 3000 | 1.6 | 2.3 | 255.531 |
| 3100 | 1.2 | 1.6 | 185.394 |
| 3200 | .8 | 1.2 | 129.862 |
| TOTAL WEIGHT | | | 16007.990 |
| PR/PH | 2.771 | | |
| PR/1700 | .609 | | |
| PH/1800 | .256 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.039 | | |

1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800 1850 1900 1950 2000 2050 2100 2150 2200 2250 2300 2350 2400 2450 2500 2550 2600 2650 2700 2750 2800 2850 2900 2950 3000 3050 3100 3150 3200

TABLE 3.g CONT.'D

Summary for Cruise 7 succession:

g. Aromatic Fraction Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|------------------|
| 1 | 711 | (RUBA-1), 0 |
| 2 | 712 | (RUBA-2), 0 |
| 3 | 723 | (RUBA-3), 100 |
| 4 | 724 | (RUBA-4), 100 |
| 5 | 733 | (RUBC-3), 100 |
| 6 | 734 | (RUBC-4), 100 |
| 7 | B711 | (RUBD-1), 0 |
| 8 | B712 | (RUBD-2), 0 |
| 9 | B715 | (RUBD-5), 100 |
| 10 | B716 | (RUBD-6), 100 |
| 11 | B723 | (RUBE-3), 100 |
| 12 | B724 | (RUBE-4), 100 |
| 13 | B733 | (RUBF-3), 100 |
| 14 | B734 | (RUBF-4), 100 |
| 15 | C711(1.0) | (RUBG-1), 0 |
| 16 | C712(1.0) | (RUBG-2), 0 |
| 17 | C711(0.5) | (RUBG-3), 0 |
| 18 | C712(0.5) | (RUBG-4), 0 |

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 2.6 | 3.343 |
| 1870 | 10.9 | 13.995 |
| 1910 | 6.8 | 8.679 |
| 1980 | 8.1 | 10.391 |
| 2020 | 21.3 | 27.284 |
| 2060 | 4.1 | 5.307 |
| 2080 | 2.2 | 2.857 |
| 2110 | 0.0 | 0.000 |
| 2130 | 16.4 | 20.960 |
| 2170 | 5.8 | 7.429 |
| 2210 | 4.4 | 5.577 |
| 2220 | .1 | .158 |
| 2240 | 4.9 | 6.326 |
| 2290 | .4 | .456 |
| 2310 | .8 | 1.012 |
| 2430 | 6.7 | 8.636 |
| 2520 | 4.3 | 5.562 |

TOTAL WEIGHT

127.972

TABLE 3.8 CONT. 'D

G-321

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 11.1 | 3.156 |
| 1910 | 5.5 | 1.568 |
| 1980 | 7.0 | 1.997 |
| 2020 | 22.2 | 6.324 |
| 2060 | 5.7 | 1.629 |
| 2080 | 3.7 | 1.053 |
| 2110 | 1.9 | .542 |
| 2130 | 10.3 | 2.923 |
| 2170 | 7.5 | 2.144 |
| 2210 | 5.1 | 1.462 |
| 2220 | .6 | .171 |
| 2240 | 4.5 | 1.289 |
| 2290 | 1.1 | .324 |
| 2310 | 2.5 | .706 |
| 2430 | 6.9 | 1.974 |
| 2520 | 4.1 | 1.164 |
| TOTAL WEIGHT | | 28.424 |

TABLE 3.g CONT. 'D

G-322

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 7.9 | 6.926 |
| 1910 | 4.9 | 4.274 |
| 1980 | 9.6 | 8.432 |
| 2020 | 22.5 | 19.825 |
| 2060 | 6.7 | 5.863 |
| 2080 | 3.3 | 2.895 |
| 2110 | 5.7 | 5.048 |
| 2130 | 12.5 | 10.987 |
| 2170 | 8.8 | 7.705 |
| 2210 | 5.5 | 4.803 |
| 2220 | 1.0 | .865 |
| 2240 | 1.7 | 1.454 |
| 2290 | 1.0 | .859 |
| 2310 | 1.8 | 1.612 |
| 2430 | 4.2 | 3.684 |
| 2520 | 3.2 | 2.808 |
| TOTAL WEIGHT | | 88.040 |

TABLE 3.8 CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBC, REPL NO. 3

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

TABLE 3.8 CONT. 'D

| | | |
|------|------|--------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | 0.0 | 0.000 |
| 1980 | 8.0 | 5.941 |
| 2020 | 18.8 | 13.947 |
| 2060 | 5.7 | 4.250 |
| 2080 | 4.4 | 3.288 |
| 2110 | 2.1 | 1.520 |
| 2130 | 12.3 | 9.107 |
| 2170 | 13.4 | 9.958 |
| 2210 | 8.8 | 6.537 |
| 2220 | 1.6 | 1.203 |
| 2240 | 3.9 | 2.863 |
| 2290 | 1.3 | .931 |
| 2310 | 4.1 | 3.025 |
| 2430 | 8.5 | 6.332 |
| 2520 | 7.0 | 5.186 |

TOTAL WEIGHT

74.087

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 7.0 | 3.012 |
| 1910 | 5.3 | 2.285 |
| 1980 | 8.7 | 3.775 |
| 2020 | 23.5 | 10.168 |
| 2060 | 6.7 | 2.906 |
| 2080 | 4.0 | 1.746 |
| 2110 | 2.2 | .970 |
| 2130 | 9.0 | 3.893 |
| 2170 | 10.7 | 4.640 |
| 2210 | 6.5 | 2.796 |
| 2220 | 1.2 | .505 |
| 2240 | 2.8 | 1.205 |
| 2290 | 1.2 | .508 |
| 2310 | 1.8 | .760 |
| 2430 | 4.5 | 1.933 |
| 2520 | 4.9 | 2.096 |
| TOTAL WEIGHT | | 43.196 |

TABLE 3.8 CONT. 'D

G-326

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 5.4 | 2.927 |
| 1870 | 13.2 | 7.215 |
| 1910 | 9.6 | 5.256 |
| 1980 | 7.2 | 3.907 |
| 2020 | 22.4 | 12.259 |
| 2060 | 5.4 | 2.940 |
| 2080 | 2.7 | 1.490 |
| 2110 | 1.5 | .818 |
| 2130 | 8.4 | 4.585 |
| 2170 | 6.4 | 3.474 |
| 2210 | 4.1 | 2.244 |
| 2220 | .7 | .370 |
| 2240 | 3.0 | 1.645 |
| 2290 | .8 | .452 |
| 2310 | 1.1 | .580 |
| 2430 | 4.7 | 2.592 |
| 2520 | 3.4 | 1.877 |
| TOTAL WEIGHT | | 54.631 |

TABLE 3.8 CONT.'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 5.1 | 3.732 |
| 1870 | 14.2 | 10.337 |
| 1910 | 9.0 | 6.554 |
| 1980 | 7.7 | 5.572 |
| 2020 | 21.7 | 15.811 |
| 2060 | 5.5 | 3.980 |
| 2080 | 3.1 | 2.220 |
| 2110 | 1.6 | 1.171 |
| 2130 | 8.1 | 5.866 |
| 2170 | 6.6 | 4.810 |
| 2210 | 4.3 | 3.158 |
| 2220 | .7 | .474 |
| 2240 | 2.5 | 1.795 |
| 2290 | .8 | .549 |
| 2310 | 1.2 | .899 |
| 2430 | 4.7 | 3.398 |
| 2520 | 3.4 | 2.448 |
| TOTAL WEIGHT | | 72.773 |

TABLE 3.8 CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBD, REPL NO. 5

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

TABLE 3.8 CONT. 'D

| | | |
|------|------|--------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | 0.0 | 0.000 |
| 1980 | 0.0 | 0.000 |
| 2020 | 27.7 | 11.431 |
| 2060 | 5.9 | 2.419 |
| 2080 | 4.2 | 1.720 |
| 2110 | 4.1 | 1.706 |
| 2130 | 16.6 | 6.840 |
| 2170 | 8.9 | 3.672 |
| 2210 | 8.4 | 3.487 |
| 2220 | 1.5 | .625 |
| 2240 | 3.9 | 1.616 |
| 2290 | 1.5 | .630 |
| 2310 | 3.7 | 1.542 |
| 2430 | 7.2 | 2.974 |
| 2520 | 6.4 | 2.660 |

TOTAL WEIGHT

41.322

G-328

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 2.8 | 1.104 |
| 1910 | 2.3 | .902 |
| 1980 | 5.5 | 2.125 |
| 2020 | 16.1 | 6.222 |
| 2060 | 5.0 | 1.954 |
| 2080 | 4.1 | 1.584 |
| 2110 | 1.5 | .579 |
| 2130 | 12.5 | 4.860 |
| 2170 | 11.8 | 4.570 |
| 2210 | 8.8 | 3.409 |
| 2220 | 1.9 | .745 |
| 2240 | 4.1 | 1.568 |
| 2290 | 1.7 | .652 |
| 2310 | 3.1 | 1.217 |
| 2430 | 9.9 | 3.834 |
| 2520 | 8.8 | 3.399 |
| TOTAL WEIGHT | | 38.724 |

TABLE 3.8 CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBE, REPL NO. 3

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|-------|-------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | 0.0 | 0.000 |
| 1980 | 0.0 | 0.000 |
| 2020 | 100.0 | 3.531 |
| 2060 | 0.0 | 0.000 |
| 2080 | 0.0 | 0.000 |
| 2110 | 0.0 | 0.000 |
| 2130 | 0.0 | 0.000 |
| 2170 | 0.0 | 0.000 |
| 2210 | 0.0 | 0.000 |
| 2220 | 0.0 | 0.000 |
| 2240 | 0.0 | 0.000 |
| 2290 | 0.0 | 0.000 |
| 2310 | 0.0 | 0.000 |
| 2430 | 0.0 | 0.000 |
| 2520 | 0.0 | 0.000 |

TOTAL WEIGHT

3.531

TABLE 3.8 CONT'D

G-330

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | 0.0 | 0.000 |
| 1980 | 0.0 | 0.000 |
| 2020 | 0.0 | 0.000 |
| 2060 | 0.0 | 0.000 |
| 2080 | 0.0 | 0.000 |
| 2110 | 0.0 | 0.000 |
| 2130 | 34.5 | 7.324 |
| 2170 | 19.5 | 4.140 |
| 2210 | 12.4 | 2.626 |
| 2220 | 2.2 | .475 |
| 2240 | 5.3 | 1.125 |
| 2290 | 2.2 | .477 |
| 2310 | 7.4 | 1.577 |
| 2430 | 10.0 | 2.114 |
| 2520 | 6.5 | 1.370 |
| TOTAL WEIGHT | | 21.229 |

TABLE 3.8 CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBF, REPL NO. 3

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 0.0 | 0.000 |
| 1870 | 10.9 | 10.602 |
| 1910 | 6.8 | 6.599 |
| 1980 | 9.5 | 9.187 |
| 2020 | 23.2 | 22.521 |
| 2060 | 6.3 | 6.130 |
| 2080 | 3.7 | 3.570 |
| 2110 | 1.8 | 1.707 |
| 2130 | 8.2 | 8.002 |
| 2170 | 8.7 | 8.439 |
| 2210 | 5.8 | 5.630 |
| 2220 | 1.0 | 1.013 |
| 2240 | 2.5 | 2.431 |
| 2290 | 1.0 | 1.018 |
| 2310 | 1.6 | 1.579 |
| 2430 | 4.7 | 4.542 |
| 2520 | 4.3 | 4.206 |

TOTAL WEIGHT

97.177

TABLE 3.8 CONT. 'D

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| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 5.4 | 1.550 |
| 1870 | 10.3 | 2.969 |
| 1910 | 5.8 | 1.686 |
| 1980 | 6.0 | 1.724 |
| 2020 | 18.8 | 5.438 |
| 2060 | 5.5 | 1.581 |
| 2080 | 2.8 | .819 |
| 2110 | 2.0 | .583 |
| 2130 | 8.1 | 2.350 |
| 2170 | 8.0 | 2.317 |
| 2210 | 6.6 | 1.909 |
| 2220 | 1.1 | .332 |
| 2240 | 2.8 | .824 |
| 2290 | 1.2 | .334 |
| 2310 | 1.8 | .518 |
| 2430 | 5.7 | 1.647 |
| 2520 | 8.2 | 2.364 |
| TOTAL WEIGHT | | 28.944 |

TABLE 3.8 CONT. 'D

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|---------------------|---------------------|-------------------------|
| 1750 | 6.8 | 179.280 |
| 1870 | 14.6 | 388.236 |
| 1910 | 7.4 | 197.051 |
| 1980 | 8.0 | 213.418 |
| 2020 | 18.4 | 488.886 |
| 2060 | 3.8 | 101.302 |
| 2080 | 3.1 | 81.988 |
| 2110 | 2.5 | 65.967 |
| 2130 | 11.5 | 306.230 |
| 2170 | 5.2 | 138.386 |
| 2210 | 4.4 | 117.040 |
| 2220 | .5 | 14.345 |
| 2240 | 3.1 | 81.338 |
| 2290 | .7 | 19.330 |
| 2310 | 1.7 | 46.291 |
| 2430 | 6.2 | 164.880 |
| 2520 | 1.9 | 51.668 |
| TOTAL WEIGHT | | 2655.635 |

G-334

TABLE 3.8 CONT. 'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 6.4 | 214.206 |
| 1870 | 14.1 | 468.644 |
| 1910 | 6.9 | 231.228 |
| 1980 | 7.8 | 259.938 |
| 2020 | 17.5 | 583.793 |
| 2060 | 4.0 | 134.389 |
| 2080 | 3.1 | 103.571 |
| 2110 | 1.9 | 62.434 |
| 2130 | 12.7 | 423.491 |
| 2170 | 5.0 | 166.933 |
| 2210 | 4.2 | 141.372 |
| 2220 | .5 | 17.063 |
| 2240 | 2.3 | 78.140 |
| 2290 | .7 | 24.178 |
| 2310 | 1.9 | 63.304 |
| 2430 | 5.8 | 193.346 |
| 2520 | 5.0 | 168.388 |
| TOTAL WEIGHT | | 3334.419 |

TABLE 3.g CONT. 'D

G-336

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 3.4 | 26.913 |
| 1870 | 11.1 | 88.806 |
| 1910 | 4.3 | 34.646 |
| 1980 | 7.8 | 62.063 |
| 2020 | 17.2 | 137.285 |
| 2060 | 3.8 | 30.545 |
| 2080 | 3.6 | 29.077 |
| 2110 | 3.0 | 23.784 |
| 2130 | 14.6 | 116.379 |
| 2170 | 5.5 | 44.150 |
| 2210 | 5.0 | 40.225 |
| 2220 | .9 | 7.514 |
| 2240 | 2.3 | 18.366 |
| 2290 | 1.0 | 7.631 |
| 2310 | 3.3 | 26.161 |
| 2430 | 7.6 | 60.567 |
| 2520 | 5.4 | 43.051 |
| TOTAL WEIGHT | | 797.165 |

TABLE 3.g CONT.'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 5.3 | 63.742 |
| 1870 | 14.0 | 169.183 |
| 1910 | 6.7 | 81.489 |
| 1980 | 8.1 | 98.478 |
| 2020 | 18.3 | 221.941 |
| 2060 | 4.0 | 48.177 |
| 2080 | 3.1 | 36.975 |
| 2110 | 2.3 | 28.244 |
| 2130 | 13.6 | 164.680 |
| 2170 | 5.1 | 61.188 |
| 2210 | 4.2 | 51.119 |
| 2220 | .6 | 7.514 |
| 2240 | 1.8 | 21.743 |
| 2290 | .6 | 7.631 |
| 2310 | 2.5 | 30.617 |
| 2430 | 5.9 | 71.630 |
| 2520 | 3.9 | 46.707 |
| TOTAL WEIGHT | | 1211.058 |

TABLE 3.8 CONT. 'D

TABLE 3.h

Summary for Cruise 8 succession:

A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|--|
| 1 | 818 | (RUBH-8), 0 |
| 2 | 813 | (RUBH-3), 122 |
| 3 | 814 | (RUBH-4), 122 |
| 4 | 823 | (RUBI-3), 122 |
| 5 | 824 | (RUBI-4), 122 |
| 6 | 833 | (RUBJ-3), 122 |
| 7 | 834 | (RUBJ-4), 122 |
| 8 | 819 | (RUBH-9), Sterile Weathering Control (122-day) |
| 9 | 81(10) | (RUBH-10), Sterile Weathering Control (122-day) |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 11.9 | | 828.717 |
| 1253 | 5.4 | | 377.275 |
| 1300 | 9.1 | | 629.231 |
| 1356 | 4.9 | | 339.631 |
| 1400 | 7.7 | | 532.526 |
| 1440 | 2.4 | | 165.035 |
| 1500 | 7.5 | | 521.552 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 6.5 | 12.7 | 451.853 |
| 1620 | 2.3 | 4.5 | 161.585 |
| 1670 | 3.2 | 6.3 | 224.971 |
| 1700 | 5.7 | 11.1 | 394.341 |
| 1780 | 1.3 | 2.6 | 91.708 |
| 1800 | 4.8 | 9.5 | 336.814 |
| 1851 | 1.6 | 3.1 | 110.966 |
| 1900 | 4.6 | 9.0 | 320.597 |
| 2000 | 3.6 | 7.0 | 249.069 |
| 2100 | 2.9 | 5.6 | 198.423 |
| 2200 | 2.5 | 5.0 | 176.968 |
| 2300 | 2.1 | 4.2 | 147.514 |
| 2400 | 1.8 | 3.5 | 122.943 |
| 2500 | 1.5 | 2.9 | 102.280 |
| 2600 | 1.4 | 2.8 | 98.305 |
| 2700 | 1.1 | 2.1 | 75.231 |
| 2800 | .7 | 1.3 | 47.837 |
| 2900 | .8 | 1.6 | 56.579 |
| 3000 | .9 | 1.8 | 64.311 |
| 3100 | 1.0 | 2.0 | 70.471 |
| 3200 | .7 | 1.4 | 50.261 |

TOTAL WEIGHT

6946.992

PR/PH 2.453

PR/1700 .570

PH/1800 .272

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.359

TABLE 3. h CONT. 'D

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TABLE 3.4 CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 4.8 | | 303.935 |
| 1253 | 4.7 | | 295.956 |
| 1300 | 7.4 | | 468.860 |
| 1356 | 5.5 | | 343.468 |
| 1400 | 8.0 | | 504.264 |
| 1440 | 2.7 | | 168.453 |
| 1500 | 8.4 | | 528.878 |
| 1551 | .2 | | 12.695 |
| 1600 | 7.4 | 12.7 | 467.983 |
| 1620 | 1.8 | 3.0 | 111.557 |
| 1670 | 3.8 | 6.5 | 237.591 |
| 1700 | 6.4 | 11.0 | 403.699 |
| 1780 | 1.5 | 2.6 | 94.796 |
| 1800 | 5.4 | 9.3 | 341.228 |
| 1851 | 1.3 | 2.2 | 81.989 |
| 1900 | 5.2 | 8.9 | 325.196 |
| 2000 | 4.2 | 7.2 | 263.429 |
| 2100 | 3.7 | 6.3 | 230.561 |
| 2200 | 3.3 | 5.6 | 206.878 |
| 2300 | 2.8 | 4.8 | 175.157 |
| 2400 | 2.3 | 3.9 | 143.492 |
| 2500 | 1.8 | 3.1 | 114.451 |
| 2600 | 1.8 | 3.0 | 111.921 |
| 2700 | 1.3 | 2.2 | 81.129 |
| 2800 | .8 | 1.3 | 48.920 |
| 2900 | .7 | 1.3 | 46.756 |
| 3000 | 1.2 | 2.1 | 76.738 |
| 3100 | .8 | 1.4 | 53.116 |
| 3200 | .9 | 1.5 | 56.903 |
| TOTAL WEIGHT | | | 6300.001 |
| PR/PH | 2.506 | | |
| PR/1700 | .589 | | |
| PH/1800 | .278 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.470 | | |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 3.1 | | 172.923 |
| 1253 | 2.6 | | 146.687 |
| 1300 | 4.5 | | 252.085 |
| 1356 | 3.6 | | 202.233 |
| 1400 | 6.5 | | 363.969 |
| 1440 | 2.5 | | 136.824 |
| 1500 | 7.7 | | 430.744 |
| 1551 | .3 | | 14.255 |
| 1600 | 8.3 | 12.1 | 464.017 |
| 1620 | 3.0 | 4.4 | 168.097 |
| 1670 | 4.5 | 6.6 | 253.141 |
| 1700 | 7.5 | 10.8 | 417.171 |
| 1780 | 1.9 | 2.7 | 103.445 |
| 1800 | 6.6 | 9.6 | 370.268 |
| 1851 | 1.7 | 2.4 | 94.163 |
| 1900 | 6.5 | 9.3 | 359.898 |
| 2000 | 5.4 | 7.8 | 300.763 |
| 2100 | 3.9 | 5.7 | 218.322 |
| 2200 | 4.0 | 5.8 | 222.711 |
| 2300 | 3.2 | 4.6 | 177.287 |
| 2400 | 2.6 | 3.7 | 143.026 |
| 2500 | 2.0 | 2.9 | 112.361 |
| 2600 | 2.0 | 2.9 | 109.933 |
| 2700 | 1.4 | 2.1 | 79.226 |
| 2800 | .9 | 1.3 | 51.911 |
| 2900 | .8 | 1.1 | 43.733 |
| 3000 | 1.1 | 1.5 | 58.497 |
| 3100 | 1.0 | 1.5 | 55.936 |
| 3200 | .8 | 1.2 | 45.558 |

TOTAL WEIGHT

5569.184

PR/PH 2.447

PR/1700 .607

PH/1800 .279

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.060

TABLE 3. h CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBI, REPL. NO. 3

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 5.7 | | 473.292 |
| 1253 | 4.6 | | 380.296 |
| 1300 | 7.2 | | 593.869 |
| 1356 | 5.4 | | 447.209 |
| 1400 | 8.0 | | 661.595 |
| 1440 | 1.8 | | 150.723 |
| 1500 | 7.8 | | 645.059 |
| 1551 | .1 | | 8.484 |
| 1600 | 6.8 | 11.5 | 563.322 |
| 1620 | 1.4 | 2.4 | 119.689 |
| 1670 | 4.1 | 6.8 | 335.536 |
| 1700 | 6.3 | 10.6 | 521.941 |
| 1780 | 1.7 | 2.9 | 142.040 |
| 1800 | 5.4 | 9.1 | 445.490 |
| 1851 | 1.8 | 3.1 | 153.063 |
| 1900 | 4.8 | 8.1 | 400.126 |
| 2000 | 4.0 | 6.7 | 328.417 |
| 2100 | 3.4 | 5.7 | 281.254 |
| 2200 | 3.3 | 5.5 | 271.803 |
| 2300 | 3.0 | 5.0 | 245.021 |
| 2400 | 2.4 | 4.1 | 201.553 |
| 2500 | 1.9 | 3.2 | 156.169 |
| 2600 | 1.9 | 3.2 | 156.491 |
| 2700 | 1.4 | 2.4 | 118.914 |
| 2800 | 1.1 | 1.9 | 94.449 |
| 2900 | 1.4 | 2.3 | 112.116 |
| 3000 | 1.2 | 2.0 | 98.002 |
| 3100 | 1.1 | 1.8 | 90.038 |
| 3200 | 1.0 | 1.6 | 79.813 |

TOTAL WEIGHT

8275.774

PR/PH 2.362

PR/1700 .643

PH/1800 .319

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.721

TABLE 3.1 CONT. 'D

G-342

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 6.5 | | 336.171 |
| 1253 | 4.5 | | 229.991 |
| 1300 | 7.0 | | 360.427 |
| 1356 | 5.2 | | 267.800 |
| 1400 | 7.7 | | 394.913 |
| 1440 | 2.5 | | 128.064 |
| 1500 | 8.3 | | 428.620 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 7.8 | 13.4 | 400.451 |
| 1620 | 1.8 | 3.1 | 92.578 |
| 1670 | 4.1 | 7.0 | 208.337 |
| 1700 | 6.8 | 11.6 | 348.059 |
| 1780 | 1.6 | 2.7 | 80.713 |
| 1800 | 5.7 | 9.8 | 292.322 |
| 1851 | 1.9 | 3.3 | 98.009 |
| 1900 | 5.3 | 9.1 | 272.883 |
| 2000 | 4.1 | 7.1 | 211.437 |
| 2100 | 3.3 | 5.7 | 170.410 |
| 2200 | 3.0 | 5.1 | 151.871 |
| 2300 | 2.5 | 4.2 | 126.024 |
| 2400 | 2.0 | 3.5 | 104.309 |
| 2500 | 1.6 | 2.8 | 82.611 |
| 2600 | 1.6 | 2.7 | 81.489 |
| 2700 | 1.2 | 2.1 | 62.260 |
| 2800 | .7 | 1.3 | 37.839 |
| 2900 | .9 | 1.6 | 48.552 |
| 3000 | 1.0 | 1.7 | 50.835 |
| 3100 | .7 | 1.3 | 37.950 |
| 3200 | .7 | 1.1 | 33.990 |

TOTAL WEIGHT

5138.914

PR/PH 2.581

PR/1700 .599

PH/1800 .276

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.695

TABLE 3.h CONT. 'D

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TABLE 3.h CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 7.2 | | 526.427 |
| 1253 | 5.1 | | 370.792 |
| 1300 | 0.2 | | 596.365 |
| 1356 | 4.5 | | 327.268 |
| 1400 | 8.0 | | 582.317 |
| 1440 | 2.5 | | 183.440 |
| 1500 | 0.2 | | 596.904 |
| 1551 | .2 | | 13.351 |
| 1600 | 7.1 | 12.7 | 522.171 |
| 1620 | 2.6 | 4.7 | 191.844 |
| 1670 | 3.5 | 6.2 | 255.239 |
| 1700 | 6.1 | 10.9 | 446.990 |
| 1780 | 1.4 | 2.5 | 103.900 |
| 1800 | 5.1 | 9.1 | 375.630 |
| 1851 | 1.7 | 3.0 | 121.969 |
| 1900 | 5.0 | 8.9 | 366.989 |
| 2000 | 4.1 | 7.3 | 298.569 |
| 2100 | 3.5 | 6.2 | 255.032 |
| 2200 | 3.1 | 5.5 | 227.337 |
| 2300 | 2.6 | 4.6 | 188.237 |
| 2400 | 2.1 | 3.7 | 153.163 |
| 2500 | 1.7 | 3.0 | 122.141 |
| 2600 | 1.7 | 3.0 | 122.135 |
| 2700 | 1.1 | 2.0 | 82.296 |
| 2800 | .8 | 1.3 | 55.195 |
| 2900 | .9 | 1.6 | 64.085 |
| 3000 | 1.1 | 2.0 | 83.049 |
| 3100 | .7 | 1.2 | 50.122 |
| 3200 | .3 | .5 | 21.297 |
| TOTAL WEIGHT | | | 7304.251 |
| PR/PH | 2.457 | | |
| PR/1700 | .571 | | |
| PH/1800 | .277 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.563 | | |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 3.9 | | 223.628 |
| 1253 | 4.2 | | 241.296 |
| 1300 | 7.0 | | 395.853 |
| 1356 | 5.6 | | 316.423 |
| 1400 | 8.1 | | 462.563 |
| 1440 | 2.7 | | 152.433 |
| 1500 | 8.5 | | 481.601 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 7.7 | 12.8 | 437.221 |
| 1620 | 2.7 | 4.5 | 154.029 |
| 1670 | 4.1 | 6.8 | 230.412 |
| 1700 | 6.5 | 10.9 | 371.021 |
| 1780 | 1.5 | 2.5 | 85.317 |
| 1800 | 5.3 | 8.9 | 302.734 |
| 1851 | 1.3 | 2.1 | 71.631 |
| 1900 | 5.3 | 8.8 | 298.647 |
| 2000 | 4.2 | 7.1 | 240.609 |
| 2100 | 3.3 | 5.5 | 186.773 |
| 2200 | 3.3 | 5.5 | 186.752 |
| 2300 | 2.7 | 4.6 | 155.308 |
| 2400 | 2.3 | 3.8 | 127.971 |
| 2500 | 1.8 | 3.1 | 104.297 |
| 2600 | 1.8 | 3.0 | 103.475 |
| 2700 | 1.4 | 2.3 | 76.995 |
| 2800 | .9 | 1.6 | 53.124 |
| 2900 | .8 | 1.3 | 45.199 |
| 3000 | 1.1 | 1.9 | 63.068 |
| 3100 | 1.0 | 1.7 | 59.310 |
| 3200 | .9 | 1.5 | 51.636 |

TOTAL WEIGHT

5679.325

PR/PH 2.701

PR/1700 .621

PH/1800 .282

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.072

TABLE 3.4 CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBH, REPL. NO. 9

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 3.5 | | 270.626 |
| 1253 | 2.6 | | 208.974 |
| 1300 | 4.6 | | 363.047 |
| 1356 | 3.2 | | 254.613 |
| 1400 | 6.0 | | 476.533 |
| 1440 | 3.5 | | 278.091 |
| 1500 | 7.2 | | 572.147 |
| 1551 | 1.6 | | 124.399 |
| 1600 | 7.3 | 10.8 | 577.652 |
| 1620 | 2.8 | 4.1 | 219.234 |
| 1670 | 3.2 | 4.7 | 253.638 |
| 1700 | 6.3 | 9.2 | 494.720 |
| 1780 | 1.3 | 1.9 | 102.575 |
| 1800 | 5.4 | 7.9 | 423.712 |
| 1851 | 1.7 | 2.5 | 134.458 |
| 1900 | 5.7 | 8.4 | 448.940 |
| 2000 | 4.6 | 6.8 | 366.085 |
| 2100 | 3.9 | 5.8 | 310.665 |
| 2200 | 3.4 | 5.1 | 270.884 |
| 2300 | 2.9 | 4.3 | 229.359 |
| 2400 | 2.5 | 3.7 | 197.638 |
| 2500 | 2.2 | 3.2 | 171.251 |
| 2600 | 1.7 | 2.6 | 136.946 |
| 2700 | 1.5 | 2.2 | 116.651 |
| 2800 | 1.3 | 1.9 | 102.487 |
| 2900 | 1.7 | 2.5 | 132.584 |
| 3000 | 2.5 | 3.8 | 201.230 |
| 3100 | 3.1 | 4.5 | 241.400 |
| 3200 | 2.8 | 4.1 | 219.909 |

TABLE 3-h CONT. 'D

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TOTAL WEIGHT

7908.447

PR/PH

2.473

PR/1700

.513

PH/1800

.242

SUM OF THE N-ALKANES 1600-3200 / PR+PH : 13.032

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 2.4 | | 104.499 |
| 1356 | 3.4 | | 149.517 |
| 1400 | 6.9 | | 299.628 |
| 1440 | 2.6 | | 111.975 |
| 1500 | 9.2 | | 400.476 |
| 1551 | .3 | | 12.880 |
| 1600 | 9.3 | 12.4 | 404.719 |
| 1620 | 2.2 | 2.9 | 96.317 |
| 1670 | 5.0 | 6.6 | 217.496 |
| 1700 | 8.4 | 11.2 | 367.805 |
| 1780 | 2.0 | 2.7 | 87.294 |
| 1800 | 7.4 | 9.9 | 322.719 |
| 1851 | 1.9 | 2.5 | 81.323 |
| 1900 | 7.2 | 9.6 | 313.880 |
| 2000 | 5.7 | 7.5 | 246.541 |
| 2100 | 4.7 | 6.3 | 205.901 |
| 2200 | 4.0 | 5.4 | 175.843 |
| 2300 | 3.3 | 4.4 | 144.969 |
| 2400 | 2.7 | 3.6 | 118.959 |
| 2500 | 2.2 | 2.9 | 95.551 |
| 2600 | 2.1 | 2.8 | 92.541 |
| 2700 | 1.6 | 2.1 | 67.658 |
| 2800 | 1.0 | 1.3 | 43.347 |
| 2900 | .9 | 1.3 | 40.986 |
| 3000 | 1.0 | 1.3 | 42.974 |
| 3100 | 1.2 | 1.6 | 52.467 |
| 3200 | 1.3 | 1.7 | 55.635 |
| TOTAL WEIGHT | | | 4353.907 |
| PR/PH | 2.492 | | |
| PR/1700 | .591 | | |
| PH/1800 | .270 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.162 | | |

TABLE 3-h CONT. 'D

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TABLE 3.h CONT.'D

Summary for Cruise 8 succession:
g. Aromatic Fraction Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|--|
| 1 | 818 | (RUBH-8), 0 |
| 2 | 813 | (RUBH-3), 122 |
| 3 | 814 | (RUBH-4), 122 |
| 4 | 823 | (RUBI-3), 122 |
| 5 | 824 | (RUBI-4), 122 |
| 6 | 833 | (RUBJ-3), 122 |
| 7 | 834 | (RUBJ-4), 122 |
| 8 | 819 | (RUBH-9), Sterile Weathering Control (122-day) |
| 9 | 81(10) | (RUBH-10), Sterile Weathering Control (122-day) |

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBH, REPL NO. 8

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 4.3 | 8.760 |
| 1870 | 17.0 | 34.564 |
| 1910 | 8.3 | 16.981 |
| 1980 | 10.8 | 22.079 |
| 2020 | 22.0 | 44.834 |
| 2060 | 4.2 | 8.630 |
| 2080 | 2.3 | 4.640 |
| 2110 | 1.7 | 3.480 |
| 2130 | 6.8 | 13.915 |
| 2170 | 6.0 | 12.246 |
| 2210 | 4.3 | 8.676 |
| 2220 | .8 | 1.554 |
| 2240 | 1.7 | 3.537 |
| 2290 | .8 | 1.567 |
| 2310 | .9 | 1.792 |
| 2430 | 4.8 | 9.878 |
| 2520 | 3.2 | 6.616 |
| TOTAL WEIGHT | | 203.748 |

TABLE 3.h CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBH, REPL NO. 3

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 0.0 | 0.000 |
| 1870 | 7.3 | 6.714 |
| 1910 | 4.4 | 4.042 |
| 1980 | 8.9 | 8.199 |
| 2020 | 21.7 | 20.003 |
| 2060 | 4.3 | 3.959 |
| 2080 | 2.2 | 2.063 |
| 2110 | 4.4 | 4.015 |
| 2130 | 17.7 | 16.249 |
| 2170 | 7.7 | 7.045 |
| 2210 | 5.1 | 4.651 |
| 2220 | .9 | .844 |
| 2240 | 2.1 | 1.888 |
| 2290 | .9 | .852 |
| 2310 | 2.2 | 2.032 |
| 2430 | 6.5 | 5.956 |
| 2520 | 3.9 | 3.547 |

TOTAL WEIGHT

92.058

TABLE 3.h CONT.'D

G-350

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 8.6 | 5.367 |
| 1910 | 0.0 | 0.000 |
| 1980 | 7.9 | 4.905 |
| 2020 | 14.5 | 9.059 |
| 2060 | 1.8 | 1.139 |
| 2080 | 4.2 | 2.591 |
| 2110 | 3.2 | 2.001 |
| 2130 | 18.7 | 11.666 |
| 2170 | 8.8 | 5.456 |
| 2210 | 6.9 | 4.305 |
| 2220 | 1.2 | .760 |
| 2240 | 5.4 | 3.388 |
| 2290 | 1.2 | .774 |
| 2310 | 6.2 | 3.851 |
| 2430 | 6.6 | 4.093 |
| 2520 | 4.8 | 2.984 |
| TOTAL WEIGHT | | 62.341 |

TABLE 3.h CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBI, REPL NO. 3

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 2.8 | 5.861 |
| 1870 | 12.7 | 26.221 |
| 1910 | 5.5 | 11.459 |
| 1980 | 9.3 | 19.259 |
| 2020 | 20.6 | 42.508 |
| 2060 | 5.0 | 10.326 |
| 2080 | 3.8 | 7.776 |
| 2110 | 1.0 | 2.108 |
| 2130 | 8.9 | 18.337 |
| 2170 | 8.9 | 18.286 |
| 2210 | 6.6 | 13.649 |
| 2220 | .7 | 1.526 |
| 2240 | 2.8 | 5.686 |
| 2290 | .8 | 1.557 |
| 2310 | 1.7 | 3.430 |
| 2430 | 6.3 | 13.067 |
| 2520 | 2.7 | 5.493 |

TOTAL WEIGHT

206.550

TABLE 3.h CONT.'D

G-352

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE R0B1, REPL NO. 4

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 8.8 | 7.672 |
| 1910 | 2.9 | 2.557 |
| 1980 | 8.7 | 7.523 |
| 2020 | 19.4 | 16.806 |
| 2060 | 3.4 | 2.918 |
| 2080 | 3.2 | 2.740 |
| 2110 | 4.4 | 3.835 |
| 2130 | 17.8 | 15.412 |
| 2170 | 7.4 | 6.424 |
| 2210 | 5.6 | 4.900 |
| 2220 | 1.1 | .928 |
| 2240 | 3.8 | 3.287 |
| 2290 | 1.1 | .946 |
| 2310 | 4.7 | 4.059 |
| 2430 | 4.4 | 3.784 |
| 2520 | 3.4 | 2.945 |
| TOTAL WEIGHT | | 86.735 |

TABLE 3.1 CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBJ, REPL NO. 3

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 2.8 | 2.260 |
| 1870 | 10.4 | 8.340 |
| 1910 | 8.2 | 6.572 |
| 1980 | 8.9 | 7.154 |
| 2020 | 23.4 | 18.819 |
| 2060 | 6.4 | 5.116 |
| 2080 | 3.4 | 2.696 |
| 2110 | 1.9 | 1.509 |
| 2130 | 7.8 | 6.272 |
| 2170 | 8.6 | 6.931 |
| 2210 | 5.6 | 4.505 |
| 2220 | 1.1 | .864 |
| 2240 | 2.6 | 2.087 |
| 2290 | 1.1 | .889 |
| 2310 | 1.6 | 1.320 |
| 2430 | 4.3 | 3.494 |
| 2520 | 1.9 | 1.561 |

TOTAL WEIGHT

80.390

TABLE 3.h CONT.'D

G-354

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 7.6 | 5.938 |
| 1910 | 6.2 | 4.857 |
| 1980 | 9.5 | 7.452 |
| 2020 | 26.5 | 20.808 |
| 2060 | 6.9 | 5.386 |
| 2080 | 3.5 | 2.723 |
| 2110 | 1.7 | 1.367 |
| 2130 | 10.1 | 7.893 |
| 2170 | 9.9 | 7.786 |
| 2210 | 6.4 | 5.029 |
| 2220 | 1.2 | .902 |
| 2240 | 3.2 | 2.528 |
| 2290 | 1.2 | .907 |
| 2310 | 1.7 | 1.313 |
| 2430 | 2.3 | 1.839 |
| 2520 | 2.1 | 1.663 |
| TOTAL WEIGHT | | 78.389 |

TABLE 3.h CONT.'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|---------------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 4.0 | 1.952 |
| 1910 | 3.8 | 1.882 |
| 1980 | 7.5 | 3.673 |
| 2020 | 20.2 | 9.889 |
| 2060 | 5.9 | 2.870 |
| 2080 | 4.1 | 2.028 |
| 2110 | 1.8 | .894 |
| 2130 | 10.7 | 5.224 |
| 2170 | 11.8 | 5.768 |
| 2210 | 7.6 | 3.717 |
| 2220 | 1.4 | .696 |
| 2240 | 3.3 | 1.602 |
| 2290 | 1.0 | .467 |
| 2310 | 2.2 | 1.099 |
| 2430 | 7.7 | 3.775 |
| 2520 | 7.1 | 3.500 |
| TOTAL WEIGHT | | 49.035 |

TABLE 3.h CONT.'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 0.0 | 0.000 |
| 1910 | 0.0 | 0.000 |
| 1980 | 8.5 | 4.236 |
| 2020 | 14.2 | 7.051 |
| 2060 | 5.2 | 2.596 |
| 2080 | 3.7 | 1.831 |
| 2110 | 0.0 | 0.000 |
| 2130 | 12.0 | 5.962 |
| 2170 | 13.0 | 6.457 |
| 2210 | 9.0 | 4.502 |
| 2220 | 1.6 | .811 |
| 2240 | 4.1 | 2.055 |
| 2290 | 1.6 | .816 |
| 2310 | 4.7 | 2.349 |
| 2430 | 13.2 | 6.578 |
| 2520 | 9.1 | 4.518 |
| TOTAL WEIGHT | | 49.762 |

TABLE 3. h CONT. 'D

TABLE 3.i

Summary for Cruise 9 succession:

A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|---|
| 1 | 914 | (RUBK-4), 0 |
| 2 | 913 | (RUBK-3), 124 |
| 3 | 914 | (RUBK-4), 124 |
| 4 | 923 | (RUBL-3), 124 |
| 5 | 924 | (RUBL-4), 124 |
| 6 | 933 | (RUBM-3), 124 |
| 7 | 934 | (RUBM-4), 124 |
| 8 | 919 | (RUBM-8), Sterile Weathering Control (124-day) |
| 9 | 938 | (RUBK-9), Sterile Weathering Control (124-day) |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.7 | | 494.963 |
| 1253 | 5.0 | | 282.597 |
| 1300 | 7.7 | | 433.329 |
| 1356 | 5.0 | | 281.613 |
| 1400 | 7.4 | | 420.071 |
| 1440 | 2.3 | | 132.394 |
| 1500 | 7.8 | | 443.648 |
| 1551 | 1.7 | | 93.419 |
| 1600 | 7.2 | 13.2 | 405.805 |
| 1620 | 2.5 | 4.6 | 142.089 |
| 1670 | 3.6 | 6.6 | 204.126 |
| 1700 | 6.2 | 11.3 | 348.258 |
| 1780 | 1.4 | 2.5 | 78.075 |
| 1800 | 5.0 | 9.2 | 284.055 |
| 1851 | 1.7 | 3.0 | 93.641 |
| 1900 | 4.7 | 8.6 | 265.550 |
| 2000 | 3.6 | 6.6 | 203.940 |
| 2100 | 3.1 | 5.6 | 172.711 |
| 2200 | 2.6 | 4.9 | 149.768 |
| 2300 | 2.2 | 4.0 | 124.547 |
| 2400 | 1.9 | 3.4 | 105.014 |
| 2500 | 1.5 | 2.8 | 86.018 |
| 2600 | 1.5 | 2.7 | 84.417 |
| 2700 | 1.2 | 2.1 | 65.119 |
| 2800 | .9 | 1.6 | 49.945 |
| 2900 | .9 | 1.7 | 53.596 |
| 3000 | 1.0 | 1.8 | 54.239 |
| 3100 | 1.0 | 1.9 | 57.198 |
| 3200 | .8 | 1.6 | 47.797 |

TOTAL WEIGHT

5657.942

PR/PH 2.614

PR/1700 .586

PH/1800 .275

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.064

TABLE 3.1 CONT.'D

TABLE 3.1 CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.0 | | 396.335 |
| 1253 | 5.5 | | 271.981 |
| 1300 | 8.6 | | 429.047 |
| 1356 | 5.8 | | 290.772 |
| 1400 | 8.5 | | 424.504 |
| 1440 | 2.6 | | 129.147 |
| 1500 | 8.1 | | 403.970 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 6.9 | 13.0 | 343.522 |
| 1620 | 1.6 | 3.0 | 79.131 |
| 1670 | 3.5 | 6.7 | 176.299 |
| 1700 | 5.9 | 11.1 | 292.225 |
| 1780 | 1.3 | 2.5 | 65.892 |
| 1800 | 4.7 | 8.9 | 235.131 |
| 1851 | 1.6 | 3.0 | 78.172 |
| 1900 | 4.6 | 8.6 | 227.067 |
| 2000 | 3.6 | 6.7 | 177.229 |
| 2100 | 3.2 | 6.0 | 157.058 |
| 2200 | 2.8 | 5.3 | 138.497 |
| 2300 | 2.4 | 4.5 | 118.357 |
| 2400 | 2.0 | 3.8 | 100.998 |
| 2500 | 1.7 | 3.2 | 83.270 |
| 2600 | 1.6 | 3.0 | 79.139 |
| 2700 | 1.2 | 2.2 | 58.573 |
| 2800 | .9 | 1.7 | 44.200 |
| 2900 | .9 | 1.8 | 46.291 |
| 3000 | .9 | 1.7 | 44.543 |
| 3100 | .9 | 1.7 | 43.674 |
| 3200 | .9 | 1.8 | 46.934 |
| TOTAL WEIGHT | | | 4981.959 |
| PR/PH | 2.676 | | |
| PR/1700 | .603 | | |
| PH/1800 | .280 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.235 | |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 9.0 | | 701.093 |
| 1253 | 4.6 | | 356.185 |
| 1300 | 8.5 | | 662.432 |
| 1356 | 3.8 | | 296.733 |
| 1400 | 7.8 | | 607.243 |
| 1440 | 3.9 | | 303.723 |
| 1500 | 7.3 | | 570.892 |
| 1551 | 1.4 | | 110.713 |
| 1600 | 6.3 | 11.8 | 493.827 |
| 1620 | 2.4 | 4.5 | 187.620 |
| 1670 | 2.7 | 5.0 | 209.739 |
| 1700 | 5.2 | 9.8 | 407.322 |
| 1780 | 1.1 | 2.1 | 87.858 |
| 1800 | 4.4 | 8.2 | 341.466 |
| 1851 | 1.4 | 2.7 | 112.479 |
| 1900 | 4.7 | 8.7 | 361.946 |
| 2000 | 3.7 | 6.9 | 287.017 |
| 2100 | 3.1 | 5.8 | 243.319 |
| 2200 | 2.7 | 5.1 | 212.804 |
| 2300 | 2.3 | 4.2 | 176.717 |
| 2400 | 2.0 | 3.7 | 152.910 |
| 2500 | 1.8 | 3.3 | 137.206 |
| 2600 | 1.4 | 2.6 | 110.459 |
| 2700 | 1.2 | 2.3 | 94.814 |
| 2800 | .9 | 1.8 | 73.124 |
| 2900 | 1.1 | 2.0 | 84.784 |
| 3000 | 1.4 | 2.7 | 112.087 |
| 3100 | 1.8 | 3.4 | 141.124 |
| 3200 | 1.8 | 3.4 | 140.142 |

TOTAL WEIGHT

7777.779

PR/PH

2.387

PR/1700

.515

PH/1800

.257

TABLE 3.1 CONT. 'D

U-201

SUM OF THE N-ALANINES: 1100-3200 (PR+PH) = 17.000

TABLE 3.1 CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.0 | | 439.264 |
| 1253 | 5.3 | | 287.522 |
| 1300 | 7.9 | | 430.153 |
| 1356 | 5.4 | | 296.697 |
| 1400 | 7.9 | | 434.110 |
| 1440 | 2.5 | | 136.471 |
| 1500 | 7.9 | | 432.868 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 7.0 | 12.8 | 385.521 |
| 1620 | 1.6 | 2.9 | 88.113 |
| 1670 | 3.6 | 6.6 | 199.749 |
| 1700 | 6.0 | 10.9 | 328.569 |
| 1780 | 1.4 | 2.5 | 75.255 |
| 1800 | 5.0 | 9.1 | 274.139 |
| 1851 | 1.7 | 3.1 | 93.388 |
| 1900 | 4.9 | 8.8 | 266.542 |
| 2000 | 3.9 | 7.1 | 214.140 |
| 2100 | 3.4 | 6.2 | 188.037 |
| 2200 | 3.0 | 5.5 | 164.513 |
| 2300 | 2.5 | 4.6 | 138.381 |
| 2400 | 2.1 | 3.8 | 113.292 |
| 2500 | 1.7 | 3.0 | 90.924 |
| 2600 | 1.6 | 3.0 | 89.470 |
| 2700 | 1.2 | 2.2 | 67.177 |
| 2800 | .7 | 1.3 | 40.510 |
| 2900 | 1.0 | 1.8 | 53.308 |
| 3000 | .8 | 1.5 | 44.656 |
| 3100 | .9 | 1.6 | 48.232 |
| 3200 | 1.0 | 1.8 | 54.077 |
| TOTAL WEIGHT | | | 5475.080 |
| PR/PH | 2.654 | | |
| PR/1700 | .608 | | |
| PH/1800 | .275 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.314 | |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 3.5 | | 216.333 |
| 1253 | 3.7 | | 228.540 |
| 1300 | 6.1 | | 371.538 |
| 1356 | 4.1 | | 248.915 |
| 1400 | 7.2 | | 439.493 |
| 1440 | 4.0 | | 247.438 |
| 1500 | 7.9 | | 484.276 |
| 1551 | 1.6 | | 99.682 |
| 1600 | 5.7 | 9.2 | 348.174 |
| 1620 | 2.7 | 4.4 | 166.093 |
| 1670 | 3.1 | 5.0 | 188.333 |
| 1700 | 5.7 | 9.3 | 352.921 |
| 1780 | 1.2 | 2.0 | 76.395 |
| 1800 | 4.8 | 7.7 | 292.543 |
| 1851 | 1.6 | 2.6 | 97.218 |
| 1900 | 5.1 | 8.2 | 312.077 |
| 2000 | 4.0 | 6.5 | 248.328 |
| 2100 | 3.4 | 5.5 | 209.726 |
| 2200 | 3.0 | 4.8 | 182.636 |
| 2300 | 2.5 | 4.0 | 152.938 |
| 2400 | 2.1 | 3.4 | 130.290 |
| 2500 | 1.8 | 3.0 | 113.301 |
| 2600 | 1.5 | 2.4 | 89.527 |
| 2700 | 1.2 | 1.9 | 72.977 |
| 2800 | 1.1 | 1.7 | 66.534 |
| 2900 | 1.4 | 2.3 | 88.002 |
| 3000 | 2.6 | 4.2 | 160.142 |
| 3100 | 3.5 | 5.6 | 213.121 |
| 3200 | 3.9 | 6.4 | 242.371 |

TOTAL WEIGHT

6139.862

PR/PH

2.465

PR/1700

.534

PH/1800

.261

SUM OF THE N-ALKANES 1600-3200 / PR+PH 12.373

TABLE 3.1 CONT. 'D

TABLE 3.1 CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 9.8 | | 639.010 |
| 1253 | 5.3 | | 344.234 |
| 1300 | 8.5 | | 550.625 |
| 1356 | 3.6 | | 233.357 |
| 1400 | 7.8 | | 510.441 |
| 1440 | 4.1 | | 268.057 |
| 1500 | 6.8 | | 445.379 |
| 1551 | .2 | | 11.875 |
| 1600 | 7.0 | 13.0 | 454.653 |
| 1620 | 2.4 | 4.5 | 156.204 |
| 1670 | 3.7 | 6.8 | 237.900 |
| 1700 | 6.1 | 11.4 | 399.027 |
| 1780 | 1.4 | 2.6 | 91.914 |
| 1800 | 5.2 | 9.7 | 339.696 |
| 1851 | 1.3 | 2.3 | 82.241 |
| 1900 | 5.1 | 9.4 | 330.195 |
| 2000 | 3.9 | 7.2 | 252.867 |
| 2100 | 3.1 | 5.7 | 198.902 |
| 2200 | 2.9 | 5.4 | 189.303 |
| 2300 | 2.3 | 4.3 | 149.522 |
| 2400 | 1.9 | 3.5 | 121.232 |
| 2500 | 1.5 | 2.8 | 97.114 |
| 2600 | 1.5 | 2.7 | 94.851 |
| 2700 | 1.1 | 2.0 | 69.143 |
| 2800 | .7 | 1.3 | 46.316 |
| 2900 | .8 | 1.5 | 53.947 |
| 3000 | .8 | 1.5 | 53.979 |
| 3100 | .8 | 1.5 | 51.550 |
| 3200 | .6 | 1.1 | 37.634 |
| TOTAL WEIGHT | | | 6511.170 |
| PR/PH | 2.588 | | |
| PR/1700 | .596 | | |
| PH/1800 | .271 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 8.914 | |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 10.3 | | 512.375 |
| 1253 | 5.9 | | 293.728 |
| 1300 | 9.4 | | 465.190 |
| 1356 | 3.9 | | 192.483 |
| 1400 | 8.0 | | 399.309 |
| 1440 | 4.2 | | 206.968 |
| 1500 | 6.7 | | 333.528 |
| 1551 | 1.5 | | 72.387 |
| 1600 | 6.6 | 13.2 | 329.070 |
| 1620 | 2.2 | 4.4 | 110.290 |
| 1670 | 3.4 | 6.7 | 167.640 |
| 1700 | 5.4 | 10.8 | 268.218 |
| 1780 | 1.3 | 2.5 | 62.224 |
| 1800 | 4.4 | 8.8 | 219.113 |
| 1851 | 1.5 | 2.9 | 72.673 |
| 1900 | 4.1 | 8.2 | 204.990 |
| 2000 | 3.3 | 6.5 | 162.498 |
| 2100 | 2.8 | 5.5 | 137.020 |
| 2200 | 2.7 | 5.5 | 135.930 |
| 2300 | 2.3 | 4.5 | 113.368 |
| 2400 | 1.9 | 3.8 | 93.680 |
| 2500 | 1.5 | 3.0 | 74.297 |
| 2600 | 1.5 | 3.0 | 73.760 |
| 2700 | 1.1 | 2.2 | 55.593 |
| 2800 | .8 | 1.6 | 38.692 |
| 2900 | .9 | 1.8 | 45.289 |
| 3000 | 1.0 | 1.9 | 48.264 |
| 3100 | .8 | 1.7 | 42.006 |
| 3200 | .8 | 1.5 | 38.427 |
| TOTAL WEIGHT | | | 4969.011 |
| PR/PH | 2.694 | | |
| PR/1700 | .625 | | |
| PH/1800 | .284 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.050 | | |

TABLE 3.1 CONT. 'D

TABLE 3.1 CONT.'D

Summary for Cruise 9 succession:⊗ Aromatic Fraction Distribution for All Samples

| Sequence | Sample Number | Treatment (Days) |
|----------|---------------|---|
| 1 | 914 | (RUBK-4), 0 |
| 2 | 913 | (RUBK-3), 124 |
| 3 | 914 | (RUBK-4), 124 |
| 4 | 923 | (RUBL-3), 124 |
| 5 | 924 | (RUBL-4), 124 |
| 6 | 933 | (RUBM-3), 124 |
| 7 | 934 | (RUBM-4), 124 |
| 8 | 919 | (RUBM-8), Sterile Weathering Control (124-day) |
| 9 | 938 | (RUBK-9), Sterile Weathering Control (124-day) |

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 4.1 | 3.238 |
| 1870 | 13.4 | 10.524 |
| 1910 | 10.7 | 8.373 |
| 1980 | 8.3 | 6.512 |
| 2020 | 20.5 | 16.015 |
| 2060 | 3.7 | 2.876 |
| 2080 | 1.9 | 1.505 |
| 2110 | 3.4 | 2.667 |
| 2130 | 14.1 | 11.066 |
| 2170 | 5.2 | 4.104 |
| 2210 | 3.7 | 2.878 |
| 2220 | .7 | .509 |
| 2240 | 2.2 | 1.688 |
| 2290 | .7 | .516 |
| 2310 | 1.0 | .795 |
| 2430 | 3.6 | 2.846 |
| 2520 | 2.8 | 2.187 |
| TOTAL WEIGHT | | 78.300 |

TABLE 3.1 CONT.'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 8.7 | 5.769 |
| 1910 | 10.7 | 7.108 |
| 1980 | 7.3 | 4.809 |
| 2020 | 24.2 | 16.004 |
| 2060 | 5.1 | 3.365 |
| 2080 | 3.6 | 2.408 |
| 2110 | 4.0 | 2.667 |
| 2130 | 16.4 | 10.824 |
| 2170 | 6.0 | 3.999 |
| 2210 | 3.5 | 2.293 |
| 2220 | .6 | .407 |
| 2240 | 1.5 | .988 |
| 2290 | .6 | .413 |
| 2310 | .9 | .622 |
| 2430 | 4.1 | 2.688 |
| 2520 | 2.7 | 1.786 |
| TOTAL WEIGHT | | 66.151 |

TABLE 3.1 CONT. 'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 5.0 | 6.777 |
| 1870 | 12.8 | 17.492 |
| 1910 | 8.6 | 11.785 |
| 1980 | 8.8 | 12.062 |
| 2020 | 22.1 | 30.230 |
| 2060 | 6.0 | 8.258 |
| 2080 | 3.3 | 4.565 |
| 2110 | 1.7 | 2.312 |
| 2130 | 7.1 | 9.721 |
| 2170 | 7.5 | 10.320 |
| 2210 | 5.1 | 6.980 |
| 2220 | .9 | 1.250 |
| 2240 | 2.4 | 3.305 |
| 2290 | .9 | 1.257 |
| 2310 | 1.4 | 1.901 |
| 2430 | 3.8 | 5.181 |
| 2520 | 2.5 | 3.361 |
| TOTAL WEIGHT | | 136.755 |

TABLE 3.1 CONT.'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|---------------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 7.0 | 4.277 |
| 1910 | 6.5 | 3.935 |
| 1980 | 9.1 | 5.541 |
| 2020 | 25.4 | 15.453 |
| 2060 | 7.0 | 4.258 |
| 2080 | 3.7 | 2.259 |
| 2110 | 2.1 | 1.282 |
| 2130 | 9.3 | 5.638 |
| 2170 | 9.7 | 5.890 |
| 2210 | 5.9 | 3.603 |
| 2220 | 1.3 | .807 |
| 2240 | 2.5 | 1.508 |
| 2290 | 1.2 | .716 |
| 2310 | 1.4 | .850 |
| 2430 | 4.8 | 2.936 |
| 2520 | 3.0 | 1.843 |
| TOTAL WEIGHT | | 60.796 |

TABLE 3.1 CONT. 'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 6.7 | 7.212 |
| 1870 | 14.1 | 15.229 |
| 1910 | 9.1 | 9.815 |
| 1980 | 8.5 | 9.218 |
| 2020 | 20.9 | 22.547 |
| 2060 | 5.7 | 6.112 |
| 2080 | 2.9 | 3.128 |
| 2110 | 1.7 | 1.806 |
| 2130 | 6.4 | 6.877 |
| 2170 | 7.1 | 7.669 |
| 2210 | 4.5 | 4.884 |
| 2220 | .8 | .896 |
| 2240 | 1.9 | 2.046 |
| 2290 | .8 | .903 |
| 2310 | 1.9 | 2.017 |
| 2430 | 3.9 | 4.254 |
| 2520 | 3.0 | 3.290 |
| TOTAL WEIGHT | | 107.903 |

TABLE 3.1 CONT. 'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 9.6 | 11.850 |
| 1910 | 3.2 | 3.990 |
| 1980 | 9.6 | 11.916 |
| 2020 | 19.5 | 24.142 |
| 2060 | 3.5 | 4.352 |
| 2080 | 3.1 | 3.833 |
| 2110 | 4.3 | 5.353 |
| 2130 | 17.5 | 21.647 |
| 2170 | 7.1 | 8.804 |
| 2210 | 5.4 | 6.664 |
| 2220 | 1.0 | 1.182 |
| 2240 | 2.4 | 2.917 |
| 2290 | 1.0 | 1.192 |
| 2310 | 2.3 | 2.903 |
| 2430 | 3.5 | 4.342 |
| 2520 | 2.9 | 3.583 |
| TOTAL WEIGHT | | 124.023 |

TABLE 3.1 CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 7.2 | | 415.321 |
| 1253 | 4.7 | | 271.805 |
| 1300 | 7.4 | | 427.267 |
| 1356 | 5.0 | | 291.727 |
| 1400 | 7.7 | | 443.301 |
| 1440 | 2.4 | | 141.458 |
| 1500 | 8.0 | | 465.078 |
| 1551 | .2 | | 13.020 |
| 1600 | 7.3 | 12.7 | 421.163 |
| 1620 | 1.7 | 3.0 | 99.510 |
| 1670 | 3.6 | 6.4 | 210.795 |
| 1700 | 6.2 | 10.9 | 360.773 |
| 1780 | 1.4 | 2.5 | 81.743 |
| 1800 | 5.3 | 9.2 | 305.073 |
| 1851 | 1.8 | 3.1 | 104.088 |
| 1900 | 5.2 | 9.1 | 302.146 |
| 2000 | 4.3 | 7.4 | 246.610 |
| 2100 | 3.7 | 6.5 | 215.799 |
| 2200 | 3.2 | 5.7 | 187.828 |
| 2300 | 2.7 | 4.7 | 155.299 |
| 2400 | 2.2 | 3.9 | 129.159 |
| 2500 | 1.7 | 3.0 | 100.159 |
| 2600 | 1.7 | 2.9 | 95.456 |
| 2700 | 1.2 | 2.1 | 68.080 |
| 2800 | .7 | 1.3 | 42.675 |
| 2900 | .9 | 1.5 | 49.911 |
| 3000 | .8 | 1.5 | 48.988 |
| 3100 | .8 | 1.5 | 48.125 |
| 3200 | .7 | 1.2 | 38.816 |

TOTAL WEIGHT

5781.175

PR/PH 2.579

PR/1700 .584

PH/1800 .268

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.626

TABLE 3.4 CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 11.0 | | 550.892 |
| 1253 | 5.6 | | 282.424 |
| 1300 | 8.9 | | 445.560 |
| 1356 | 4.4 | | 222.418 |
| 1400 | 7.8 | | 387.979 |
| 1440 | 2.4 | | 118.017 |
| 1500 | 7.5 | | 377.105 |
| 1551 | .2 | | 8.392 |
| 1600 | 6.5 | 12.5 | 324.692 |
| 1620 | 2.3 | 4.4 | 115.175 |
| 1670 | 3.3 | 6.4 | 166.360 |
| 1700 | 5.6 | 10.7 | 279.768 |
| 1780 | 1.3 | 2.5 | 64.631 |
| 1800 | 4.7 | 9.0 | 233.384 |
| 1851 | 1.6 | 3.0 | 77.576 |
| 1900 | 4.7 | 8.9 | 233.146 |
| 2000 | 3.7 | 7.1 | 186.109 |
| 2100 | 3.2 | 6.2 | 162.210 |
| 2200 | 2.8 | 5.3 | 138.793 |
| 2300 | 2.3 | 4.4 | 114.874 |
| 2400 | 1.9 | 3.6 | 94.349 |
| 2500 | 1.6 | 3.0 | 78.806 |
| 2600 | 1.5 | 2.9 | 74.498 |
| 2700 | 1.1 | 2.2 | 56.508 |
| 2800 | .7 | 1.4 | 36.412 |
| 2900 | .9 | 1.7 | 45.420 |
| 3000 | .8 | 1.5 | 40.006 |
| 3100 | .8 | 1.5 | 38.678 |
| 3200 | .9 | 1.8 | 45.870 |
| TOTAL WEIGHT | | | 5000.053 |
| PR/PH | 2.574 | | |
| PR/1700 | .595 | | |
| PH/1800 | .277 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 9.453 | | |

TABLE 3.1 CONT.'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBM, REPL NO. 8

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 10.1 | 8.735 |
| 1870 | 12.1 | 10.412 |
| 1910 | 9.8 | 8.461 |
| 1980 | 7.3 | 6.290 |
| 2020 | 19.7 | 16.964 |
| 2060 | 3.9 | 3.344 |
| 2080 | 3.0 | 2.555 |
| 2110 | 3.3 | 2.844 |
| 2130 | 13.2 | 11.418 |
| 2170 | 4.9 | 4.231 |
| 2210 | 3.2 | 2.726 |
| 2220 | .6 | .490 |
| 2240 | 1.4 | 1.185 |
| 2290 | .6 | .494 |
| 2310 | .9 | .734 |
| 2430 | 3.9 | 3.352 |
| 2520 | 2.4 | 2.093 |
| TOTAL WEIGHT | | 86.328 |

TABLE 3.1 CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBK, REPL NO. 9

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 5.0 | 5.481 |
| 1870 | 12.4 | 13.590 |
| 1910 | 9.1 | 9.939 |
| 1980 | 8.5 | 9.334 |
| 2020 | 21.7 | 23.784 |
| 2060 | 5.9 | 6.510 |
| 2080 | 3.4 | 3.684 |
| 2110 | 1.7 | 1.883 |
| 2130 | 7.1 | 7.791 |
| 2170 | 7.7 | 8.388 |
| 2210 | 5.3 | 5.797 |
| 2220 | .9 | 1.038 |
| 2240 | 2.0 | 2.244 |
| 2290 | .8 | .888 |
| 2310 | 1.3 | 1.385 |
| 2430 | 4.2 | 4.555 |
| 2520 | 2.9 | 3.178 |

TOTAL WEIGHT

109.470

TABLE 3.1 CONT. 'D

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TABLE 3.j

Summary for First Nutrient Experiment:A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment Time (Days) |
|----------|---------------|-------------------------------------|
| 1 | RUAC-16 | 0 |
| 2 | RUAC-26 | 0 |
| 3 | RUAC-35 | 0 |
| 4 | RUAC-36 | 0 |
| 5 | RUAC- 7 | 7 |
| 6 | RUAC-18 | 7 |
| 7 | RUAC-19 | 7 |
| 8 | RUAC-17 | 8 |
| 9 | RUAC- 5 | 13 |
| 10 | RUAC- 9 | 13 |
| 11 | RUAC-14 | 13 |
| 12 | RUAC-28 | 13 |
| 13 | RUAC-29 | 13 |
| 14 | RUAC-30 | 13 |
| 15 | RUAC-25 | 19 |
| 16 | RUAC-24 | 21 |
| 17 | RUAC- 1 | Sterile Weathering Control (21-day) |
| 18 | RUAC-57 | Sterile Weathering Control (21-day) |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 4.6 | | 369.299 |
| 1400 | 7.9 | | 631.384 |
| 1440 | 1.6 | | 128.839 |
| 1500 | 7.9 | | 629.010 |
| 1551 | 1.8 | | 146.308 |
| 1600 | 6.4 | 8.4 | 511.828 |
| 1670 | 4.1 | 5.4 | 327.453 |
| 1700 | 6.9 | 9.0 | 549.522 |
| 1780 | 1.6 | 2.0 | 124.045 |
| 1800 | 6.2 | 8.2 | 496.484 |
| 1851 | 2.4 | 3.1 | 189.296 |
| 1900 | 6.3 | 8.2 | 501.025 |
| 2000 | 5.2 | 6.8 | 413.684 |
| 2100 | 5.0 | 6.6 | 400.120 |
| 2200 | 4.1 | 5.3 | 324.918 |
| 2300 | 4.1 | 5.4 | 329.463 |
| 2400 | 3.6 | 4.7 | 283.691 |
| 2500 | 3.2 | 4.2 | 256.963 |
| 2600 | 3.2 | 4.3 | 259.459 |
| 2700 | 2.4 | 3.2 | 193.560 |
| 2800 | 2.3 | 3.0 | 183.501 |
| 2900 | 2.8 | 3.7 | 224.449 |
| 3000 | 2.1 | 2.7 | 167.176 |
| 3100 | 2.2 | 2.9 | 176.776 |
| 3200 | 2.2 | 2.8 | 172.576 |

PR/PH 2.640

PR/1700 .596

PH/1800 .250

SUM OF THE N-ALKANES 1600-3200 / PR+PH 12.060

TABLE 3.J CONT. 'D

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RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAC, REPL. NO. 26

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 3.8 | | 285.719 |
| 1400 | 8.2 | | 621.170 |
| 1440 | 1.5 | | 111.517 |
| 1500 | 7.9 | | 598.174 |
| 1551 | 3.2 | | 242.568 |
| 1600 | 6.4 | 8.5 | 484.650 |
| 1670 | 4.5 | 5.9 | 339.139 |
| 1700 | 7.1 | 9.3 | 535.601 |
| 1780 | 1.7 | 2.3 | 130.491 |
| 1800 | 6.2 | 8.3 | 473.445 |
| 1851 | 2.9 | 3.8 | 217.726 |
| 1900 | 5.9 | 7.9 | 450.535 |
| 2000 | 5.2 | 6.8 | 390.857 |
| 2100 | 4.6 | 6.1 | 347.683 |
| 2200 | 4.2 | 5.6 | 322.059 |
| 2300 | 4.3 | 5.6 | 323.229 |
| 2400 | 3.5 | 4.6 | 264.200 |
| 2500 | 3.1 | 4.1 | 232.419 |
| 2600 | 3.2 | 4.3 | 245.840 |
| 2700 | 2.6 | 3.4 | 196.667 |
| 2800 | 2.0 | 2.7 | 153.756 |
| 2900 | 2.7 | 3.5 | 202.366 |
| 3000 | 2.2 | 2.9 | 164.470 |
| 3100 | 1.9 | 2.6 | 146.581 |
| 3200 | 1.4 | 1.9 | 108.580 |

TABLE 3.J CONT. 'D

G-380

PR/PH 2.599

PR/1700 .633

PH/1800 .276

SUM OF THE N-ALKANES 1600-3200 / PR+PH 10.738

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 5.3 | | 378.960 |
| 1400 | 7.5 | | 528.676 |
| 1440 | 1.8 | | 124.439 |
| 1500 | 7.9 | | 558.098 |
| 1551 | 3.1 | | 221.324 |
| 1600 | 6.2 | 8.4 | 442.486 |
| 1670 | 4.5 | 6.0 | 315.706 |
| 1700 | 6.0 | 9.2 | 484.656 |
| 1780 | 1.8 | 2.4 | 127.825 |
| 1800 | 6.0 | 8.1 | 428.711 |
| 1851 | 3.0 | 4.0 | 210.560 |
| 1900 | 5.5 | 7.3 | 387.965 |
| 2000 | 5.0 | 6.7 | 355.809 |
| 2100 | 4.4 | 5.9 | 311.629 |
| 2200 | 4.3 | 5.8 | 307.611 |
| 2300 | 4.1 | 5.5 | 290.672 |
| 2400 | 4.0 | 5.3 | 282.007 |
| 2500 | 3.0 | 4.0 | 211.479 |
| 2600 | 3.2 | 4.3 | 228.827 |
| 2700 | 2.5 | 3.4 | 179.415 |
| 2800 | 2.0 | 2.7 | 142.787 |
| 2900 | 2.5 | 3.3 | 175.439 |
| 3000 | 2.2 | 3.0 | 157.180 |
| 3100 | 2.0 | 2.6 | 139.294 |
| 3200 | 1.4 | 1.9 | 102.517 |

PR/PH 2.470

PR/1700 .651

PH/1800 .298

SUM OF THE N-ALKANES 1600-3200 / PR+PH 10.436

TABLE 3. J CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAC, REPL. NO. 36

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 9.2 | | 702.090 |
| 1440 | 4.3 | | 327.904 |
| 1500 | 7.2 | | 553.599 |
| 1551 | 3.1 | | 239.182 |
| 1600 | 6.3 | 8.2 | 477.890 |
| 1670 | 4.5 | 5.9 | 345.516 |
| 1700 | 7.0 | 9.2 | 533.299 |
| 1780 | 1.8 | 2.3 | 133.803 |
| 1800 | 6.2 | 8.1 | 471.615 |
| 1851 | 2.9 | 3.8 | 219.256 |
| 1900 | 5.9 | 7.8 | 453.555 |
| 2000 | 5.0 | 6.6 | 381.371 |
| 2100 | 4.4 | 5.8 | 338.982 |
| 2200 | 4.2 | 5.6 | 323.078 |
| 2300 | 4.1 | 5.4 | 314.185 |
| 2400 | 3.9 | 5.2 | 301.841 |
| 2500 | 3.0 | 3.9 | 228.700 |
| 2600 | 3.3 | 4.4 | 255.746 |
| 2700 | 2.6 | 3.4 | 196.370 |
| 2800 | 1.9 | 2.5 | 148.050 |
| 2900 | 2.4 | 3.2 | 184.596 |
| 3000 | 2.6 | 3.4 | 197.309 |
| 3100 | 2.3 | 3.0 | 176.231 |
| 3200 | 1.8 | 2.4 | 138.927 |

TABLE 3.1 CONT. 'D

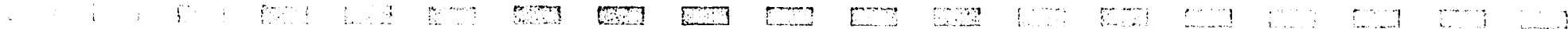
PR/PH 2.582

PR/1700 .648

PH/1800 .284

SUM OF THE N-ALKANES 1600-3200 / PR+PH 10.685

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| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 4.7 | | 232.072 |
| 1400 | 7.6 | | 373.184 |
| 1440 | 2.2 | | 106.448 |
| 1500 | 7.5 | | 365.621 |
| 1551 | 3.4 | | 168.770 |
| 1600 | 6.0 | 8.0 | 291.242 |
| 1670 | 5.2 | 7.0 | 254.089 |
| 1700 | 6.4 | 8.5 | 311.425 |
| 1780 | 2.2 | 3.0 | 108.606 |
| 1800 | 5.9 | 7.9 | 287.861 |
| 1851 | 3.4 | 4.5 | 164.855 |
| 1900 | 5.5 | 7.4 | 269.152 |
| 2000 | 4.9 | 6.5 | 237.425 |
| 2100 | 4.5 | 6.0 | 217.907 |
| 2200 | 3.8 | 5.2 | 188.104 |
| 2300 | 4.1 | 5.5 | 198.764 |
| 2400 | 3.4 | 4.6 | 167.192 |
| 2500 | 2.6 | 3.5 | 129.364 |
| 2600 | 3.3 | 4.5 | 163.448 |
| 2700 | 2.6 | 3.4 | 125.430 |
| 2800 | 2.1 | 2.8 | 102.040 |
| 2900 | 2.4 | 3.3 | 119.124 |
| 3000 | 2.4 | 3.2 | 115.538 |
| 3100 | 2.3 | 3.1 | 112.585 |
| 3200 | 1.7 | 2.3 | 82.149 |

PR/PH 2.340

PR/1700 .816

PH/1800 .377

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.599

TABLE 3.J CONT. 'D

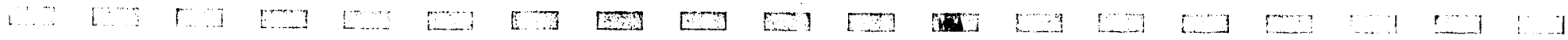
| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 3.8 | | 197.946 |
| 1400 | 7.4 | | 388.983 |
| 1440 | 2.1 | | 109.328 |
| 1500 | 7.6 | | 397.331 |
| 1551 | 3.6 | | 186.091 |
| 1600 | 6.2 | 8.2 | 326.249 |
| 1670 | 5.0 | 6.6 | 262.703 |
| 1700 | 6.6 | 8.8 | 346.850 |
| 1780 | 2.0 | 2.7 | 105.301 |
| 1800 | 6.2 | 8.2 | 326.252 |
| 1851 | 2.6 | 3.4 | 135.503 |
| 1900 | 5.7 | 7.5 | 298.352 |
| 2000 | 4.9 | 6.5 | 257.988 |
| 2100 | 4.6 | 6.2 | 243.580 |
| 2200 | 4.1 | 5.5 | 216.649 |
| 2300 | 4.2 | 5.5 | 218.652 |
| 2400 | 3.4 | 4.5 | 176.974 |
| 2500 | 2.8 | 3.7 | 145.072 |
| 2600 | 3.0 | 4.0 | 159.716 |
| 2700 | 2.4 | 3.2 | 126.690 |
| 2800 | 2.1 | 2.8 | 111.567 |
| 2900 | 2.9 | 3.9 | 154.117 |
| 3000 | 2.3 | 3.1 | 121.362 |
| 3100 | 2.5 | 3.3 | 129.539 |
| 3200 | 1.9 | 2.5 | 97.227 |

PR/PH 2.495
 PR/1700 .757
 PH/1800 .323

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.393

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TABLE 3.1 CONT. 'D



| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 3.9 | | 302.856 |
| 1400 | 8.1 | | 618.548 |
| 1440 | 1.6 | | 120.110 |
| 1500 | 7.6 | | 579.786 |
| 1551 | 3.1 | | 236.567 |
| 1600 | 6.2 | 8.2 | 474.346 |
| 1670 | 4.7 | 6.2 | 362.094 |
| 1700 | 7.0 | 9.2 | 536.401 |
| 1780 | 1.9 | 2.5 | 147.140 |
| 1800 | 6.2 | 8.2 | 475.309 |
| 1851 | 2.9 | 3.8 | 219.688 |
| 1900 | 5.6 | 7.4 | 430.607 |
| 2000 | 5.1 | 6.7 | 391.315 |
| 2100 | 4.6 | 6.1 | 354.272 |
| 2200 | 4.1 | 5.4 | 312.000 |
| 2300 | 4.3 | 5.7 | 329.710 |
| 2400 | 4.0 | 5.3 | 309.855 |
| 2500 | 3.2 | 4.2 | 241.815 |
| 2600 | 3.1 | 4.2 | 241.507 |
| 2700 | 2.6 | 3.4 | 196.752 |
| 2800 | 2.1 | 2.7 | 157.630 |
| 2900 | 2.6 | 3.4 | 200.534 |
| 3000 | 2.2 | 3.0 | 171.693 |
| 3100 | 1.9 | 2.5 | 147.278 |
| 3200 | 1.5 | 2.0 | 118.198 |

PR/PH 2.461

PR/1700 .675

PH/1800 .310

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.994

TABLE 3. J CONT. 'D

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| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 4.1 | | 249.066 |
| 1400 | 7.3 | | 441.366 |
| 1440 | 2.2 | | 136.109 |
| 1500 | 7.4 | | 447.119 |
| 1551 | 3.4 | | 204.626 |
| 1600 | 6.0 | 8.0 | 364.348 |
| 1670 | 4.7 | 6.2 | 285.737 |
| 1700 | 6.4 | 8.4 | 385.996 |
| 1780 | 1.9 | 2.5 | 115.939 |
| 1800 | 6.0 | 7.9 | 361.388 |
| 1851 | 3.2 | 4.3 | 195.117 |
| 1900 | 5.8 | 7.7 | 351.920 |
| 2000 | 5.2 | 6.8 | 312.556 |
| 2100 | 4.6 | 6.1 | 280.435 |
| 2200 | 3.8 | 5.0 | 229.943 |
| 2300 | 4.1 | 5.4 | 248.925 |
| 2400 | 3.5 | 4.6 | 211.170 |
| 2500 | 3.1 | 4.1 | 187.874 |
| 2600 | 3.3 | 4.4 | 201.112 |
| 2700 | 2.5 | 3.3 | 151.510 |
| 2800 | 2.0 | 2.7 | 123.217 |
| 2900 | 3.3 | 4.4 | 199.321 |
| 3000 | 2.1 | 2.8 | 129.959 |
| 3100 | 2.2 | 3.0 | 135.643 |
| 3200 | 1.6 | 2.2 | 99.817 |

TABLE 3.J CONT. 'D

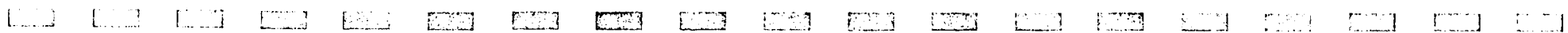
PR/PH 2.465

PR/1700 .740

PH/1800 .321

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.896

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| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|-----------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 2.0 | | 8.593 |
| 1440 | 6.5 | | 28.443 |
| 1500 | 4.7 | | 20.796 |
| 1551 | 3.5 | | 15.238 |
| 1600 | 4.0 | 4.8 | 17.380 |
| 1670 - PRISTANE | 15.4 | 18.4 | 67.270 |
| 1700 | 2.3 | 2.8 | 10.216 |
| 1780 - PHYTANE | 8.8 | 10.5 | 38.427 |
| 1800 | 3.7 | 4.5 | 16.358 |
| 1851 | 9.0 | 10.8 | 39.333 |
| 1900 | 3.8 | 4.6 | 16.814 |
| 2000 | 3.3 | 4.0 | 14.416 |
| 2100 | 3.0 | 3.6 | 13.290 |
| 2200 | 2.5 | 3.0 | 10.959 |
| 2300 | 3.8 | 4.6 | 16.835 |
| 2400 | 1.9 | 2.2 | 8.135 |
| 2500 | 1.7 | 2.1 | 7.504 |
| 2600 | 3.6 | 4.3 | 15.837 |
| 2700 | 3.3 | 4.0 | 14.518 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 0.0 | 0.0 | 0.000 |
| 3000 | 5.7 | 6.8 | 24.758 |
| 3100 | 7.5 | 9.0 | 32.777 |
| 3200 | 0.0 | 0.0 | 0.000 |

PR/PH 1.751

PR/1700 6.585

PH/1800 2.349

SUM OF THE N-ALKANES 1600-3200 / PR+PH 2.079

TABLE 3. J CONT. 'D

G-387

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TABLE 3.J CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 6.3 | | 196.037 |
| 1400 | 6.9 | | 215.885 |
| 1440 | 3.1 | | 96.915 |
| 1500 | 6.6 | | 204.719 |
| 1551 | 5.0 | | 155.091 |
| 1600 | 5.1 | 7.0 | 158.689 |
| 1670 | 7.9 | 10.9 | 245.746 |
| 1700 | 5.4 | 7.5 | 167.894 |
| 1780 | 3.8 | 5.3 | 119.786 |
| 1800 | 5.2 | 7.2 | 161.935 |
| 1851 | 4.8 | 6.7 | 151.363 |
| 1900 | 4.6 | 6.4 | 144.619 |
| 2000 | 4.1 | 5.6 | 126.964 |
| 2100 | 4.0 | 5.5 | 123.291 |
| 2200 | 3.2 | 4.4 | 98.579 |
| 2300 | 3.6 | 5.0 | 111.977 |
| 2400 | 2.8 | 3.9 | 86.865 |
| 2500 | 1.9 | 2.6 | 59.310 |
| 2600 | 3.3 | 4.6 | 102.849 |
| 2700 | 2.3 | 3.1 | 70.729 |
| 2800 | 1.9 | 2.6 | 59.524 |
| 2900 | 2.2 | 3.1 | 69.465 |
| 3000 | 2.0 | 2.8 | 63.717 |
| 3100 | 2.4 | 3.3 | 74.803 |
| 3200 | 1.7 | 2.4 | 54.458 |
| PR/PH | 2.052 | | |
| PR/1700 | 1.464 | | |
| PH/1800 | .740 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 4.748 | |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 5.6 | | 67.250 |
| 1400 | 2.8 | | 33.232 |
| 1440 | 5.6 | | 67.468 |
| 1500 | 3.2 | | 38.102 |
| 1551 | 1.9 | | 23.084 |
| 1600 | 3.2 | 3.9 | 38.072 |
| 1670 | 13.2 | 16.3 | 158.723 |
| 1700 | 3.1 | 3.8 | 37.048 |
| 1780 | 6.8 | 8.4 | 81.745 |
| 1800 | 4.0 | 4.9 | 47.473 |
| 1851 | 6.0 | 7.4 | 71.972 |
| 1900 | 4.2 | 5.2 | 50.941 |
| 2000 | 3.3 | 4.0 | 39.071 |
| 2100 | 3.9 | 4.8 | 46.737 |
| 2200 | 3.2 | 3.9 | 37.964 |
| 2300 | 3.9 | 4.9 | 47.267 |
| 2400 | 2.4 | 3.0 | 28.986 |
| 2500 | 2.0 | 2.5 | 24.034 |
| 2600 | 4.3 | 5.3 | 51.460 |
| 2700 | 2.6 | 3.3 | 31.770 |
| 2800 | 2.0 | 2.5 | 24.595 |
| 2900 | 3.5 | 4.3 | 41.478 |
| 3000 | 3.1 | 3.8 | 36.974 |
| 3100 | 3.7 | 4.6 | 44.743 |
| 3200 | 2.5 | 3.1 | 29.888 |
| PR/PH | 1.942 | | |
| PR/1700 | 4.284 | | |
| PH/1800 | 1.722 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 2.738 | |

TABLE 3.J CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 9.2 | | 396.903 |
| 1400 | 6.2 | | 268.414 |
| 1440 | 2.0 | | 86.076 |
| 1500 | 6.3 | | 272.875 |
| 1551 | 4.1 | | 176.380 |
| 1600 | 5.2 | 7.2 | 224.970 |
| 1670 | 5.3 | 7.4 | 230.392 |
| 1700 | 5.7 | 7.8 | 244.907 |
| 1780 | 2.7 | 3.8 | 117.698 |
| 1800 | 5.3 | 7.4 | 230.110 |
| 1851 | 3.9 | 5.4 | 169.926 |
| 1900 | 5.0 | 7.0 | 217.823 |
| 2000 | 4.6 | 6.3 | 198.074 |
| 2100 | 4.2 | 5.8 | 180.642 |
| 2200 | 3.5 | 4.8 | 149.792 |
| 2300 | 4.0 | 5.5 | 173.042 |
| 2400 | 3.3 | 4.5 | 140.845 |
| 2500 | 2.6 | 3.6 | 113.880 |
| 2600 | 3.4 | 4.7 | 148.026 |
| 2700 | 2.6 | 3.6 | 111.727 |
| 2800 | 2.1 | 2.9 | 89.338 |
| 2900 | 2.7 | 3.8 | 118.513 |
| 3000 | 2.2 | 3.1 | 96.329 |
| 3100 | 2.4 | 3.3 | 103.776 |
| 3200 | 1.6 | 2.3 | 70.717 |

PR/PH 1.957

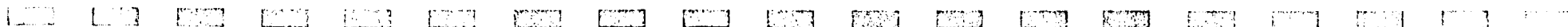
PR/1700 .941

PH/1800 .511

SUM OF THE N-ALKANES 1600-3200 / PR+PH 7.505

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TABLE 3. J CONT. 1 D



| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 5.8 | | 90.555 |
| 1400 | 4.0 | | 61.253 |
| 1440 | 8.2 | | 127.040 |
| 1500 | 5.4 | | 84.263 |
| 1551 | 4.9 | | 75.577 |
| 1600 | 4.7 | 6.6 | 72.816 |
| 1670 | 8.6 | 12.0 | 132.915 |
| 1700 | 4.7 | 6.5 | 72.568 |
| 1780 | 4.1 | 5.7 | 62.776 |
| 1800 | 4.6 | 6.4 | 71.012 |
| 1851 | 3.9 | 5.4 | 60.187 |
| 1900 | 4.2 | 5.9 | 65.536 |
| 2000 | 3.6 | 5.0 | 55.600 |
| 2100 | 3.3 | 4.7 | 51.623 |
| 2200 | 3.4 | 4.8 | 53.000 |
| 2300 | 3.2 | 4.4 | 48.815 |
| 2400 | 2.4 | 3.3 | 36.587 |
| 2500 | 1.8 | 2.5 | 28.186 |
| 2600 | 3.2 | 4.4 | 48.792 |
| 2700 | 2.0 | 2.8 | 30.849 |
| 2800 | 1.3 | 1.8 | 19.981 |
| 2900 | 3.7 | 5.2 | 57.184 |
| 3000 | 3.6 | 5.0 | 55.017 |
| 3100 | 3.6 | 5.0 | 55.813 |
| 3200 | 1.9 | 2.7 | 30.077 |
| PR/PH | 2.117 | | |
| PR/1700 | 1.832 | | |
| PH/1800 | .884 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 4.361 | |

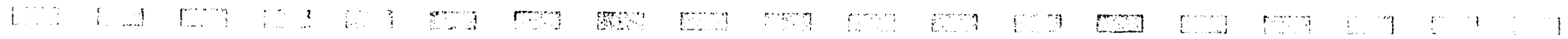
TABLE 3.J CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUAC, REPL. NO. 30

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 5.8 | | 139.974 |
| 1400 | 6.8 | | 164.721 |
| 1440 | 3.7 | | 88.185 |
| 1500 | 6.6 | | 158.126 |
| 1551 | 4.4 | | 107.189 |
| 1600 | 5.4 | 7.5 | 131.060 |
| 1670 | 7.3 | 10.0 | 176.051 |
| 1700 | 5.5 | 7.6 | 133.620 |
| 1780 | 3.3 | 4.6 | 79.964 |
| 1800 | 5.3 | 7.3 | 128.524 |
| 1851 | 4.4 | 6.0 | 105.194 |
| 1900 | 5.0 | 6.8 | 119.762 |
| 2000 | 4.1 | 5.7 | 99.904 |
| 2100 | 3.9 | 5.4 | 94.067 |
| 2200 | 3.5 | 4.8 | 84.282 |
| 2300 | 3.5 | 4.9 | 85.136 |
| 2400 | 2.7 | 3.7 | 64.547 |
| 2500 | 2.2 | 3.0 | 52.026 |
| 2600 | 3.1 | 4.3 | 74.882 |
| 2700 | 2.3 | 3.1 | 55.076 |
| 2800 | 1.7 | 2.3 | 39.949 |
| 2900 | 2.3 | 3.2 | 56.560 |
| 3000 | 2.5 | 3.5 | 61.351 |
| 3100 | 2.8 | 3.9 | 68.365 |
| 3200 | 1.8 | 2.5 | 44.577 |
| PR/PH | 2.202 | | |
| PR/1700 | 1.318 | | |
| PH/1800 | .622 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 5.444 | | |

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TABLE 3.J CONT.'D



| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 0.0 | | 0.000 |
| 1400 | 0.0 | | 0.000 |
| 1440 | 0.0 | | 0.000 |
| 1500 | .8 | | 3.552 |
| 1551 | 1.1 | | 5.018 |
| 1600 | 3.4 | 3.4 | 15.239 |
| 1670 | 10.9 | 11.1 | 49.237 |
| 1700 | 3.5 | 3.6 | 15.757 |
| 1780 | 8.1 | 8.3 | 36.684 |
| 1800 | 4.8 | 4.9 | 21.785 |
| 1851 | 7.3 | 7.4 | 32.665 |
| 1900 | 5.3 | 5.4 | 23.838 |
| 2000 | 4.3 | 4.4 | 19.567 |
| 2100 | 10.9 | 11.2 | 49.281 |
| 2200 | 3.6 | 3.7 | 16.348 |
| 2300 | 4.8 | 4.9 | 21.437 |
| 2400 | 2.6 | 2.6 | 11.679 |
| 2500 | 1.7 | 1.7 | 7.617 |
| 2600 | 6.4 | 6.5 | 28.877 |
| 2700 | 2.9 | 2.9 | 12.877 |
| 2800 | 3.2 | 3.2 | 14.324 |
| 2900 | 7.6 | 7.8 | 34.256 |
| 3000 | 0.0 | 0.0 | 0.000 |
| 3100 | 6.7 | 6.9 | 30.374 |
| 3200 | 0.0 | 0.0 | 0.000 |
| PR/PH | 1.342 | | |
| PR/1700 | 3.125 | | |
| PH/1800 | 1.684 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 3.762 | |

TABLE 3.J CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 7.9 | | 81.330 |
| 1400 | 3.1 | | 31.627 |
| 1440 | 8.6 | | 88.621 |
| 1500 | 4.2 | | 43.154 |
| 1551 | 4.7 | | 48.819 |
| 1600 | 3.8 | 5.4 | 39.550 |
| 1670 | 17.4 | 24.3 | 178.874 |
| 1700 | 2.6 | 3.7 | 27.076 |
| 1780 | 9.0 | 12.6 | 92.436 |
| 1800 | 3.3 | 4.7 | 34.486 |
| 1851 | 7.3 | 10.3 | 75.649 |
| 1900 | 3.0 | 4.2 | 30.969 |
| 2000 | 2.6 | 3.7 | 26.922 |
| 2100 | 2.8 | 4.0 | 29.265 |
| 2200 | 2.1 | 2.9 | 21.351 |
| 2300 | 2.7 | 3.8 | 27.965 |
| 2400 | 1.6 | 2.2 | 16.220 |
| 2500 | 1.2 | 1.7 | 12.231 |
| 2600 | 2.3 | 3.3 | 24.011 |
| 2700 | 1.5 | 2.1 | 15.626 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 4.2 | 5.9 | 43.068 |
| 3000 | 0.0 | 0.0 | 0.000 |
| 3100 | 0.0 | 0.0 | 0.000 |
| 3200 | 3.9 | 5.5 | 40.498 |
| PR/PH | 1.935 | | |
| PR/1700 | 6.606 | | |
| PH/1800 | 2.680 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 1.435 | | |

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TABLE 3-J CONT. 'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 ↓ | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. ↓ |
|--|---------------------------------------|----------------------------|---------------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 4.9 | | 276.315 |
| 1400 | 6.5 | | 364.734 |
| 1440 | 1.9 | | 105.694 |
| 1500 | 7.2 | | 404.773 |
| 1551 | 3.2 | | 180.150 |
| 1600 | 6.2 | 8.1 | 347.985 |
| 1670 | 4.7 | 6.2 | 266.747 |
| 1700 | 7.0 | 9.1 | 393.783 |
| 1780 | 2.0 | 2.6 | 111.454 |
| 1800 | 6.1 | 8.0 | 345.534 |
| 1851 | 3.0 | 3.9 | 168.405 |
| 1900 | 5.7 | 7.4 | 319.037 |
| 2000 | 5.0 | 6.5 | 281.355 |
| 2100 | 4.4 | 5.8 | 250.537 |
| 2200 | 4.2 | 5.5 | 235.710 |
| 2300 | 4.2 | 5.5 | 236.055 |
| 2400 | 4.0 | 5.2 | 223.550 |
| 2500 | 3.1 | 4.0 | 172.851 |
| 2600 | 3.5 | 4.6 | 197.556 |
| 2700 | 2.6 | 3.5 | 148.727 |
| 2800 | 2.0 | 2.6 | 114.051 |
| 2900 | 2.6 | 3.4 | 146.960 |
| 3000 | 2.3 | 3.0 | 128.453 |
| 3100 | 2.3 | 3.0 | 130.637 |
| 3200 | 1.6 | 2.1 | 88.542 |
| PR/PH | 2.393 | | |
| PR/1700 | .677 | | |
| PH/1800 | .323 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 9.945 | |

TABLE 3. J CONT. 'D

G-396

TABLE 3.J CONT.'D

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.0 | | 0.000 |
| 1253 | 0.0 | | 0.000 |
| 1300 | 0.0 | | 0.000 |
| 1356 | 5.2 | | 445.119 |
| 1400 | 7.7 | | 663.423 |
| 1440 | 5.3 | | 455.315 |
| 1500 | 7.6 | | 651.674 |
| 1551 | 3.0 | | 260.879 |
| 1600 | 6.1 | 8.6 | 526.396 |
| 1670 | 3.9 | 5.5 | 335.467 |
| 1700 | 6.5 | 9.2 | 561.357 |
| 1780 | 1.6 | 2.2 | 132.887 |
| 1800 | 5.9 | 8.3 | 505.741 |
| 1851 | 2.4 | 3.4 | 204.489 |
| 1900 | 5.8 | 8.1 | 495.591 |
| 2000 | 5.1 | 7.1 | 433.699 |
| 2100 | 4.5 | 6.4 | 389.141 |
| 2200 | 3.7 | 5.3 | 321.097 |
| 2300 | 4.0 | 5.6 | 340.259 |
| 2400 | 3.3 | 4.6 | 282.113 |
| 2500 | 3.0 | 4.3 | 259.163 |
| 2600 | 3.2 | 4.5 | 274.456 |
| 2700 | 2.3 | 3.3 | 199.828 |
| 2800 | 2.0 | 2.8 | 171.098 |
| 2900 | 2.4 | 3.4 | 208.612 |
| 3000 | 1.9 | 2.7 | 164.679 |
| 3100 | 1.9 | 2.7 | 166.982 |
| 3200 | 1.4 | 2.0 | 122.492 |
| PR/PH | 2.524 | | |
| PR/1700 | .598 | | |
| PH/1800 | .263 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | 11.578 | | |

TABLE 3.j CONT.'D

Summary for First Nutrient Experiment:B. Aromatic Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment Time (Days) |
|----------|---------------|-------------------------------------|
| 1 | RUAC-16 | 0 |
| 2 | RUAC-26 | 0 |
| 3 | RUAC-35 | 0 |
| 4 | RUAC-36 | 0 |
| 5 | RUAC- 7 | 7 |
| 6 | RUAC-18 | 7 |
| 7 | RUAC-19 | 7 |
| 8 | RUAC-17 | 8 |
| 9 | RUAC- 5 | 13 |
| 10 | RUAC- 9 | 13 |
| 11 | RUAC-14 | 13 |
| 12 | RUAC-28 | 13 |
| 13 | RUAC-28 | 13 |
| 14 | RUAC-30 | 13 |
| 15 | RUAC-25 | 19 |
| 16 | RUAC-40 | 21 |
| 17 | RUAC-40 | Sterile Weathering Control (21-day) |
| 18 | RUAC-57 | Sterile Weathering Control (21-day) |

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 3.9 | 5.434 |
| 1870 | 12.7 | 17.767 |
| 1910 | 8.3 | 11.531 |
| 1980 | 8.3 | 11.617 |
| 2020 | 21.4 | 29.857 |
| 2060 | 4.4 | 6.089 |
| 2080 | 2.2 | 3.003 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.4 | 21.479 |
| 2170 | 5.8 | 8.078 |
| 2210 | 4.4 | 6.149 |
| 2220 | .9 | 1.196 |
| 2240 | 1.8 | 2.443 |
| 2290 | .4 | .505 |
| 2310 | 5.9 | 8.229 |
| 2430 | 4.4 | 6.156 |
| 2520 | 0.0 | 0.000 |

134.5

TABLE 3.J CONT.'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE KUAL, REPL NO. 26

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 3.7 | 7.792 |
| 1870 | 12.6 | 26.576 |
| 1910 | 7.7 | 16.189 |
| 1980 | 8.2 | 17.241 |
| 2020 | 20.8 | 43.782 |
| 2060 | 4.5 | 9.357 |
| 2080 | 2.3 | 4.877 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.1 | 31.668 |
| 2170 | 5.7 | 12.004 |
| 2210 | 4.5 | 9.399 |
| 2220 | .2 | .373 |
| 2240 | 2.0 | 4.118 |
| 2290 | .3 | .561 |
| 2310 | 1.0 | 2.120 |
| 2430 | 6.4 | 13.535 |
| 2520 | 5.0 | 10.549 |

210.1

TABLE 3.J CONT. 'D

G-400

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 5.1 | 5.870 |
| 1870 | 12.8 | 14.591 |
| 1910 | 9.0 | 10.250 |
| 1980 | 7.4 | 8.490 |
| 2020 | 21.1 | 24.162 |
| 2060 | 4.2 | 4.838 |
| 2080 | 1.8 | 2.082 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.0 | 17.118 |
| 2170 | 5.4 | 6.187 |
| 2210 | 4.0 | 4.534 |
| 2220 | .1 | .152 |
| 2240 | 2.1 | 2.370 |
| 2290 | .4 | .490 |
| 2310 | 1.0 | 1.153 |
| 2430 | 6.1 | 6.949 |
| 2520 | 4.5 | 5.152 |

11.6

TABLE 3. J CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUAL, REPL NO. 56

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 3.4 ✓ | 5.320 |
| 1870 | 11.7 | 18.407 |
| 1910 | 7.3 ✓ | 11.520 |
| 1980 | 8.2 | 12.890 |
| 2020 | 20.8 | 32.719 |
| 2060 | 4.4 | 6.849 |
| 2080 | 2.3 | 3.682 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.6 | 24.491 |
| 2170 | 6.0 | 9.486 |
| 2210 | 4.5 | 7.141 |
| 2220 | 1.3 ✓ | 2.020 |
| 2240 | 2.0 | 3.179 |
| 2290 | .4 | .658 |
| 2310 | 1.0 | 1.577 |
| 2430 | 6.1 | 9.598 |
| 2520 | 5.0 | 7.945 |
| | | 157.3 |

TABLE 3.J CONT. 'D

G-402

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 2.7 | 2.633 |
| 1870 | 10.4 | 10.175 |
| 1910 | 7.9 | 7.681 |
| 1980 | 7.6 | 7.400 |
| 2020 | 21.7 | 21.235 |
| 2060 | 4.5 | 4.391 |
| 2080 | 2.0 | 1.986 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.9 | 15.528 |
| 2170 | 5.9 | 5.795 |
| 2210 | 4.5 | 4.390 |
| 2220 | .2 | .147 |
| 2240 | 2.2 | 2.183 |
| 2290 | .0 | .045 |
| 2310 | 2.3 | 2.229 |
| 2430 | 6.9 | 6.739 |
| 2520 | 5.4 | 5.254 |
| | | 97.7 |

TABLE 3.J CONT.'D

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 3.5 | 4.354 |
| 1870 | 12.8 | 15.851 |
| 1910 | 6.8 | 8.385 |
| 1980 | 8.4 | 10.380 |
| 2020 | 20.3 | 25.128 |
| 2060 | 4.3 | 5.292 |
| 2080 | 2.4 | 2.964 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.2 | 18.813 |
| 2170 | 5.7 | 7.055 |
| 2210 | 4.6 | 5.758 |
| 2220 | .2 | .193 |
| 2240 | 2.8 | 3.501 |
| 2290 | .6 | .724 |
| 2310 | 1.2 | 1.459 |
| 2430 | 6.5 | 8.077 |
| 2520 | 4.8 | 5.928 |

12A .1

G-404

TABLE 3.J CONT.'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 2.7 | 2.755 |
| 1870 | 11.4 | 11.449 |
| 1910 | 5.7 | 5.704 |
| 1980 | 8.0 | 8.098 |
| 2020 | 19.6 | 19.775 |
| 2060 | 4.3 | 4.363 |
| 2080 | 2.6 | 2.629 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.7 | 15.777 |
| 2170 | 6.3 | 6.325 |
| 2210 | 5.0 | 5.023 |
| 2220 | .2 | .158 |
| 2240 | 1.9 | 1.917 |
| 2290 | .4 | .373 |
| 2310 | 2.8 | 2.783 |
| 2430 | 7.9 | 7.940 |
| 2520 | 5.7 | 5.725 |

100.8

TABLE 3.J CONT. 'D

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 3.6 | 4.200 |
| 1870 | 11.0 | 12.965 |
| 1910 | 7.5 | 8.800 |
| 1980 | 7.7 | 9.034 |
| 2020 | 21.1 | 24.803 |
| 2060 | 4.3 | 5.027 |
| 2080 | 2.2 | 2.644 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.9 | 18.691 |
| 2170 | 6.0 | 7.028 |
| 2210 | 4.6 | 5.413 |
| 2220 | .1 | .158 |
| 2240 | 2.3 | 2.688 |
| 2290 | .3 | .337 |
| 2310 | 1.0 | 1.178 |
| 2430 | 7.0 | 8.218 |
| 2520 | 5.4 | 6.408 |

117 .5

TABLE 3.J CONT.'D

G-406

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 2.2 | .988 |
| 1870 | 7.9 | 3.488 |
| 1910 | 7.7 | 3.413 |
| 1980 | 5.2 | 2.288 |
| 2020 | 23.8 | 10.537 |
| 2060 | 4.8 | 2.126 |
| 2080 | 2.0 | .896 |
| 2110 | 0.0 | 0.000 |
| 2130 | 16.0 | 7.054 |
| 2170 | 5.9 | 2.589 |
| 2210 | 5.5 | 2.434 |
| 2220 | .2 | .079 |
| 2240 | 1.6 | .692 |
| 2290 | .3 | .141 |
| 2310 | 1.4 | .618 |
| 2430 | 8.8 | 3.896 |
| 2520 | 6.7 | 2.955 |

AA. 1

TABLE 3.J CONT. 'D

G-407

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 2.4 | 1.843 |
| 1870 | 10.2 | 7.876 |
| 1910 | 6.8 | 5.262 |
| 1980 | 7.6 | 5.870 |
| 2020 | 22.1 | 17.013 |
| 2060 | 4.4 | 3.430 |
| 2080 | 2.3 | 1.762 |
| 2110 | 0.0 | 0.000 |
| 2130 | 16.7 | 12.858 |
| 2170 | 6.2 | 4.777 |
| 2210 | 5.0 | 3.835 |
| 2220 | .2 | .129 |
| 2240 | 2.0 | 1.570 |
| 2290 | .4 | .325 |
| 2310 | 1.1 | .866 |
| 2430 | 7.3 | 5.624 |
| 2520 | 5.3 | 4.097 |
| | | 78.7 |

TABLE 3.J CONT. 'D

G-408

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 3.5 | 2.160 |
| 1870 | 10.2 | 6.259 |
| 1910 | 7.8 | 4.762 |
| 1980 | 6.6 | 4.056 |
| 2020 | 23.2 | 14.231 |
| 2060 | 4.7 | 2.882 |
| 2080 | 2.5 | 1.526 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.0 | 9.228 |
| 2170 | 5.9 | 3.607 |
| 2210 | 5.1 | 3.150 |
| 2220 | .2 | .106 |
| 2240 | 1.8 | 1.095 |
| 2290 | .4 | .227 |
| 2310 | 1.2 | .738 |
| 2430 | 7.2 | 4.420 |
| 2520 | 4.7 | 2.896 |
| | | 60.5 |

TABLE 3.J CONT.'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 2.8 | 2.997 |
| 1870 | 11.2 | 11.758 |
| 1910 | 7.5 | 7.880 |
| 1980 | 7.9 | 8.291 |
| 2020 | 21.4 | 22.574 |
| 2060 | 4.5 | 4.750 |
| 2080 | 2.2 | 2.309 |
| 2110 | 0.0 | 0.000 |
| 2130 | 16.0 | 16.894 |
| 2170 | 6.0 | 6.343 |
| 2210 | 4.6 | 4.882 |
| 2220 | .2 | .164 |
| 2240 | 1.8 | 1.902 |
| 2290 | .4 | .394 |
| 2310 | 1.1 | 1.139 |
| 2430 | 7.0 | 7.412 |
| 2520 | 5.4 | 5.683 |

105.4

TABLE 3.J CONT. 'D

G-410

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|-------|
| 1750 | 3.1 | 1.364 |
| 1870 | 9.8 | 4.296 |
| 1910 | 4.0 | 1.738 |
| 1980 | 7.0 | 3.056 |
| 2020 | 18.4 | 8.102 |
| 2060 | 3.8 | 1.681 |
| 2080 | 2.7 | 1.170 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.7 | 6.910 |
| 2170 | 6.4 | 2.794 |
| 2210 | 5.8 | 2.557 |
| 2220 | .2 | .107 |
| 2240 | 3.2 | 1.424 |
| 2290 | .9 | .410 |
| 2310 | 3.2 | 1.391 |
| 2430 | 9.1 | 4.004 |
| 2520 | 6.6 | 2.910 |

NL⁹

TABLE 3.J CONT. 'D

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 3.7 | 2.027 |
| 1870 | 11.8 | 6.405 |
| 1910 | 7.6 | 4.121 |
| 1980 | 7.3 | 3.988 |
| 2020 | 21.1 | 11.484 |
| 2060 | 4.4 | 2.389 |
| 2080 | 2.4 | 1.306 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.1 | 8.198 |
| 2170 | 5.6 | 3.060 |
| 2210 | 4.8 | 2.630 |
| 2220 | .2 | .087 |
| 2240 | 2.0 | 1.076 |
| 2290 | .4 | .207 |
| 2310 | 1.1 | .582 |
| 2430 | 7.1 | 3.853 |
| 2520 | 5.4 | 2.932 |

54.4

TABLE 3.J CONT.'D

G-412

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
|------|---------------------|-------------------------|

| | | |
|------|------|-------|
| 1750 | 0.0 | 0.000 |
| 1870 | 5.4 | 1.741 |
| 1910 | 6.5 | 2.092 |
| 1980 | 4.4 | 1.425 |
| 2020 | 25.0 | 8.023 |
| 2060 | 4.9 | 1.565 |
| 2080 | 2.4 | .754 |
| 2110 | 0.0 | 0.000 |
| 2130 | 17.1 | 5.486 |
| 2170 | 6.2 | 1.983 |
| 2210 | 6.0 | 1.923 |
| 2220 | .2 | .065 |
| 2240 | 3.4 | 1.075 |
| 2290 | .7 | .222 |
| 2310 | 3.6 | 1.169 |
| 2430 | 8.4 | 2.689 |
| 2520 | 5.7 | 1.827 |

32.1

TABLE 3. J CONT. 'D

G-413

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 2.4 | 1.564 |
| 1870 | 10.8 | 7.146 |
| 1910 | 4.6 | 3.041 |
| 1980 | 7.4 | 4.939 |
| 2020 | 19.4 | 12.896 |
| 2060 | 4.1 | 2.741 |
| 2080 | 2.8 | 1.889 |
| 2110 | 0.0 | 0.000 |
| 2130 | 15.9 | 10.550 |
| 2170 | 6.4 | 4.250 |
| 2210 | 6.2 | 4.106 |
| 2220 | .2 | .138 |
| 2240 | 2.2 | 1.488 |
| 2290 | .5 | .308 |
| 2310 | 3.5 | 2.336 |
| 2430 | 8.6 | 5.684 |
| 2520 | 5.0 | 3.334 |

66²

TABLE 3.J CONT. 'D

G-414

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|-------|---------------------|-------------------------|
| >1750 | .5 | .595 |
| >1870 | 8.4 | 10.462 |
| >1910 | 5.8 | 7.246 |
| >1980 | 7.5 | 9.352 |
| 2020 | 21.1 | 26.168 |
| 2060 | 4.5 | 5.634 |
| 2080 | 2.5 | 3.057 |
| 2110 | 0.0 | 0.000 |
| 2130 | 17.6 | 21.824 |
| 2170 | 6.8 | 8.444 |
| 2210 | 5.4 | 6.651 |
| 2220 | .3 | .343 |
| 2240 | 2.6 | 3.168 |
| 2290 | .5 | .622 |
| 2310 | 2.9 | 3.652 |
| 2430 | 7.9 | 9.795 |
| 2520 | 5.6 | 6.912 |

123.0

TABLE 3.J CONT.'D

G-415

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 1.9 | 1.847 |
| 1870 | 9.9 | 9.607 |
| 1910 | 7.4 | 7.115 |
| 1980 | 7.2 | 6.917 |
| 2020 | 21.8 | 21.060 |
| 2060 | 4.3 | 4.194 |
| 2080 | 1.8 | 1.734 |
| 2110 | 0.0 | 0.000 |
| 2130 | 16.3 | 15.782 |
| 2170 | 5.8 | 5.638 |
| 2210 | 4.3 | 4.151 |
| 2220 | .9 | .886 |
| 2240 | 3.6 | 3.508 |
| 2290 | .7 | .705 |
| 2310 | 2.4 | 2.331 |
| 2430 | 6.8 | 6.587 |
| 2520 | 4.8 | 4.663 |
| | | 96.6 |

TABLE 3.J CONT.'D

G-416

TABLE 3.k

Summary for Second Nutrient Experiment:

A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment Time (Hours) |
|----------|---------------|------------------------|
| 1 | RUBN-37 | 0 |
| 2 | RUBN-38 | 0 |
| 3 | RUBN-10 | 29.5 |
| 4 | RUBN-32 | 29.5 |
| 5 | RUBN-12 | 80.0 |
| 6 | RUBN-15 | 80.0 |
| 7 | RUBN-31 | 80.0 |
| 8 | RUBN-35 | 99.0 |
| 9 | RUBN-36 | 99.0 |
| 10 | RUBN- 7 | 142.5 |
| 11 | RUBN-17 | 142.5 |
| 12 | RUBN-33 | 142.5 |
| 13 | RUBN- 4 | 164.0 |
| 14 | RUBN-11 | 164.0 |
| 15 | RUBN-16 | 164.0 |
| 16 | RUBN- 9 | 213.5 |
| 17 | RUBN-19 | 213.5 |
| 18 | RUBN-14 | 250.0 |
| 19 | RUBN-22 | 250.0 |
| 20 | RUBN-13 | 384.0 |
| 21 | RUBN-28 | 384.0 |
| 22 | RUBN-37 | 384.0 |
| 23 | RUBN-40 | 384.0 |

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE KUBN, REPL. NO. 38

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.4 | | 797.252 |
| 1253 | 5.5 | | 520.581 |
| 1300 | 7.6 | | 724.082 |
| 1356 | 5.8 | | 553.309 |
| 1400 | 8.1 | | 769.001 |
| 1440 | 2.4 | | 231.540 |
| 1500 | 7.8 | | 737.723 |
| 1551 | .8 | | 77.189 |
| 1600 | 6.6 | 12.4 | 630.678 |
| 1620 | 1.4 | 2.7 | 135.910 |
| 1670 | 3.9 | 7.3 | 369.715 |
| 1700 | 5.9 | 11.0 | 561.083 |
| 1780 | 1.9 | 3.6 | 184.400 |
| 1800 | 5.1 | 9.4 | 480.426 |
| 1851 | 1.8 | 3.3 | 166.761 |
| 1900 | 4.2 | 7.8 | 396.078 |
| 2000 | 3.5 | 6.5 | 328.173 |
| 2100 | 3.0 | 5.6 | 285.293 |
| 2200 | 2.7 | 5.1 | 257.792 |
| 2300 | 2.4 | 4.6 | 231.995 |
| 2400 | 2.0 | 3.8 | 190.735 |
| 2500 | 1.7 | 3.1 | 157.924 |
| 2600 | 1.6 | 2.9 | 148.847 |
| 2700 | 1.3 | 2.4 | 122.851 |
| 2800 | .9 | 1.8 | 90.049 |
| 2900 | 1.1 | 2.0 | 99.736 |
| 3000 | .9 | 1.7 | 87.975 |
| 3100 | .9 | 1.6 | 82.778 |
| 3200 | .8 | 1.5 | 75.196 |

TOTAL WEIGHT 9495.072

PR/PH 2.005

PR/1700 .659

PH/1800 .384

SUM OF THE N-ALKANES 1600-3200 / PR+PH 7.529

TABLE 3.K CONT. 'D

G-419

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 37

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.3 | | 879.773 |
| 1253 | 5.3 | | 558.504 |
| 1300 | 7.1 | | 750.904 |
| 1356 | 6.1 | | 652.270 |
| 1400 | 8.2 | | 872.718 |
| 1440 | 2.2 | | 235.047 |
| 1500 | 7.8 | | 826.768 |
| 1551 | .7 | | 76.393 |
| 1600 | 6.6 | 12.1 | 697.204 |
| 1620 | 1.4 | 2.6 | 152.079 |
| 1670 | 3.8 | 7.0 | 402.662 |
| 1700 | 6.0 | 11.1 | 636.898 |
| 1780 | 2.0 | 3.6 | 209.898 |
| 1800 | 5.1 | 9.5 | 545.286 |
| 1851 | 2.0 | 3.6 | 208.930 |
| 1900 | 4.2 | 7.8 | 450.042 |
| 2000 | 3.6 | 6.5 | 376.592 |
| 2100 | 3.0 | 5.6 | 321.464 |
| 2200 | 2.7 | 5.0 | 290.449 |
| 2300 | 2.5 | 4.5 | 260.059 |
| 2400 | 2.0 | 3.7 | 212.579 |
| 2500 | 1.6 | 3.0 | 171.724 |
| 2600 | 1.6 | 3.0 | 170.518 |
| 2700 | 1.3 | 2.5 | 141.333 |
| 2800 | 1.1 | 2.1 | 120.880 |
| 2900 | 1.1 | 2.1 | 118.368 |
| 3000 | 1.0 | 1.8 | 101.661 |
| 3100 | .8 | 1.5 | 87.963 |
| 3200 | .7 | 1.4 | 78.384 |
| TOTAL WEIGHT | | | 10607.351 |
| PR/PH | 1.918 | | |
| PR/1700 | .632 | | |
| PH/1800 | .385 | | |
| SUM OF THE N-ALKANES 1600-3200 / PR+PH | | 7.806 | |

TABLE 3.k CONT. 'D

G-420

SUM OF THE N-ALKANES 1600-3200 / PR+PH 7.806

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 10.1 | | 1139.090 |
| 1253 | 5.1 | | 575.621 |
| 1300 | 9.0 | | 1006.460 |
| 1356 | 3.7 | | 419.113 |
| 1400 | 7.9 | | 881.676 |
| 1440 | 3.8 | | 429.103 |
| 1500 | 7.3 | | 817.580 |
| 1551 | 1.5 | | 168.348 |
| 1600 | 6.2 | 12.0 | 692.444 |
| 1620 | 2.3 | 4.4 | 255.533 |
| 1670 | 2.4 | 4.7 | 269.240 |
| 1700 | 4.9 | 9.5 | 547.203 |
| 1780 | 1.0 | 1.9 | 112.283 |
| 1800 | 4.2 | 8.1 | 470.854 |
| 1851 | 1.3 | 2.5 | 146.568 |
| 1900 | 4.4 | 8.6 | 497.305 |
| 2000 | 3.6 | 6.9 | 402.320 |
| 2100 | 3.0 | 5.8 | 338.456 |
| 2200 | 2.6 | 5.1 | 295.177 |
| 2300 | 2.2 | 4.3 | 246.555 |
| 2400 | 1.9 | 3.6 | 210.554 |
| 2500 | 1.6 | 3.2 | 184.094 |
| 2600 | 1.3 | 2.6 | 148.667 |
| 2700 | 1.1 | 2.2 | 125.071 |
| 2800 | .9 | 1.7 | 100.656 |
| 2900 | 1.1 | 2.2 | 125.334 |
| 3000 | 1.6 | 3.0 | 176.230 |
| 3100 | 2.1 | 4.0 | 231.806 |
| 3200 | 1.9 | 3.7 | 212.677 |

TOTAL WEIGHT 11226.019

PR/PH 2.398

PR/1700 .492

PH/1800 .238

SUM OF THE N-ALKANES 1600-3200 / PR+PH 13.120

TABLE 3.K CONT.'D

G-421

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 32

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 7.4 | | 763.266 |
| 1253 | 4.0 | | 418.204 |
| 1300 | 8.1 | | 836.758 |
| 1356 | 5.1 | | 527.012 |
| 1400 | 9.6 | | 991.164 |
| 1440 | 3.8 | | 397.604 |
| 1500 | 8.9 | | 923.553 |
| 1551 | 2.5 | | 264.195 |
| 1600 | 6.3 | 12.4 | 649.284 |
| 1620 | 1.8 | 3.5 | 181.594 |
| 1670 | 3.2 | 6.4 | 336.378 |
| 1700 | 5.3 | 10.5 | 552.690 |
| 1780 | 1.1 | 2.2 | 117.286 |
| 1800 | 4.4 | 8.7 | 459.110 |
| 1851 | 1.0 | 1.9 | 100.494 |
| 1900 | 4.1 | 8.1 | 425.004 |
| 2000 | 3.4 | 6.8 | 355.713 |
| 2100 | 2.8 | 5.6 | 294.815 |
| 2200 | 2.6 | 5.1 | 269.631 |
| 2300 | 2.3 | 4.6 | 242.744 |
| 2400 | 2.0 | 3.9 | 205.095 |
| 2500 | 1.6 | 3.1 | 164.913 |
| 2600 | 1.7 | 3.3 | 175.226 |
| 2700 | 1.4 | 2.7 | 141.887 |
| 2800 | 1.1 | 2.2 | 112.902 |
| 2900 | 1.3 | 2.5 | 130.664 |
| 3000 | 1.1 | 2.1 | 110.401 |
| 3100 | .9 | 1.8 | 92.557 |
| 3200 | 1.3 | 2.5 | 132.386 |
| TOTAL WEIGHT | | | 10372.531 |
| PR/PH | 2.868 | | |
| PR/1700 | .609 | | |
| PH/1800 | .255 | | |

TABLE 3.k CONT.'D

G-422

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.952

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 9.3 | | 849.093 |
| 1253 | 5.0 | | 462.272 |
| 1300 | 8.7 | | 797.419 |
| 1356 | 3.3 | | 301.843 |
| 1400 | 8.4 | | 766.637 |
| 1440 | 3.7 | | 339.055 |
| 1500 | 6.9 | | 635.546 |
| 1551 | .5 | | 46.517 |
| 1600 | 6.0 | 11.1 | 551.857 |
| 1620 | 2.3 | 4.3 | 215.463 |
| 1670 | 2.7 | 4.9 | 244.268 |
| 1700 | 4.9 | 9.1 | 450.318 |
| 1780 | 1.1 | 2.0 | 99.843 |
| 1800 | 4.4 | 8.1 | 401.098 |
| 1851 | 1.5 | 2.9 | 141.794 |
| 1900 | 5.0 | 9.2 | 456.594 |
| 2000 | 4.0 | 7.4 | 369.784 |
| 2100 | 3.4 | 6.3 | 315.112 |
| 2200 | 2.9 | 5.4 | 266.926 |
| 2300 | 2.5 | 4.5 | 224.741 |
| 2400 | 2.1 | 3.8 | 191.396 |
| 2500 | 1.8 | 3.4 | 168.774 |
| 2600 | 1.4 | 2.7 | 132.762 |
| 2700 | 1.2 | 2.2 | 108.025 |
| 2800 | .9 | 1.7 | 85.379 |
| 2900 | 1.0 | 1.8 | 90.885 |
| 3000 | 1.0 | 1.8 | 90.829 |
| 3100 | 1.8 | 3.4 | 168.799 |
| 3200 | 2.1 | 4.0 | 196.977 |

TOTAL WEIGHT

9170.007

PR/PH 2.447

PR/1700 .542

PH/1800 .249

SUM OF THE N-ALKANES 1600-3200 / PR+PH 12.410

TABLE 3.K CONT. 'D

G-423

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 15

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 9.3 | | 549.363 |
| 1253 | 3.6 | | 212.123 |
| 1300 | 8.6 | | 503.522 |
| 1356 | 5.4 | | 316.159 |
| 1400 | 6.0 | | 353.752 |
| 1440 | 3.9 | | 230.306 |
| 1500 | 7.3 | | 430.257 |
| 1551 | .3 | | 17.741 |
| 1600 | 6.1 | 10.9 | 356.610 |
| 1620 | 2.5 | 4.4 | 144.321 |
| 1670 | 3.1 | 5.7 | 185.015 |
| 1700 | 5.0 | 9.0 | 293.925 |
| 1780 | 1.2 | 2.1 | 69.026 |
| 1800 | 4.5 | 8.2 | 266.832 |
| 1851 | 1.8 | 3.2 | 103.985 |
| 1900 | 5.4 | 9.8 | 320.499 |
| 2000 | 4.3 | 7.7 | 251.228 |
| 2100 | 3.7 | 6.7 | 219.460 |
| 2200 | 3.1 | 5.6 | 184.501 |
| 2300 | 2.7 | 4.8 | 155.960 |
| 2400 | 2.3 | 4.2 | 136.520 |
| 2500 | 2.1 | 3.7 | 122.310 |
| 2600 | 1.6 | 2.9 | 94.802 |
| 2700 | 1.2 | 2.1 | 67.726 |
| 2800 | 1.0 | 1.8 | 57.965 |
| 2900 | 1.1 | 2.0 | 65.099 |
| 3000 | .7 | 1.2 | 38.454 |
| 3100 | 1.3 | 2.3 | 76.447 |
| 3200 | 1.0 | 1.8 | 58.427 |
| TOTAL WEIGHT | | | 5882.333 |
| PR/PH | 2.680 | | |
| PR/1700 | .629 | | |
| PH/1800 | .259 | | |

TABLE 3.k CONT. 'D

G-424

SUM OF THE N-ALKANES 1600-3200 / PR+PH 10.801

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 31

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.7 | | 478.571 |
| 1253 | 3.5 | | 194.285 |
| 1300 | 8.3 | | 457.349 |
| 1356 | 3.3 | | 179.177 |
| 1400 | 9.0 | | 496.853 |
| 1440 | 4.1 | | 227.087 |
| 1500 | 7.3 | | 403.674 |
| 1551 | .6 | | 31.104 |
| 1600 | 6.1 | 11.0 | 332.728 |
| 1620 | 2.6 | 4.7 | 141.886 |
| 1670 | 3.2 | 5.8 | 175.634 |
| 1700 | 4.9 | 9.0 | 272.041 |
| 1780 | 1.2 | 2.2 | 66.021 |
| 1800 | 4.3 | 7.9 | 238.366 |
| 1851 | 1.7 | 3.1 | 92.539 |
| 1900 | 5.2 | 9.4 | 283.908 |
| 2000 | 4.2 | 7.6 | 229.148 |
| 2100 | 3.7 | 6.7 | 202.085 |
| 2200 | 3.2 | 5.7 | 173.689 |
| 2300 | 2.7 | 4.8 | 146.535 |
| 2400 | 2.4 | 4.3 | 129.531 |
| 2500 | 2.1 | 3.9 | 117.810 |
| 2600 | 1.7 | 3.1 | 94.133 |
| 2700 | 1.4 | 2.5 | 74.718 |
| 2800 | 1.1 | 1.9 | 57.755 |
| 2900 | 1.2 | 2.1 | 64.305 |
| 3000 | .7 | 1.2 | 37.215 |
| 3100 | 1.1 | 1.9 | 58.164 |
| 3200 | .7 | 1.3 | 40.537 |

TOTAL WEIGHT

5496.848

PR/PH 2.660

PR/1700 .646

PH/1800 .277

SUM OF THE N-ALKANES 1400-3200 / PR+PH 10.563

TABLE 3.K CONT.'D

G-425

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 35

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 6.6 | | 570.222 |
| 1253 | 4.1 | | 356.122 |
| 1300 | 7.0 | | 602.269 |
| 1356 | 5.1 | | 436.255 |
| 1400 | 7.7 | | 663.392 |
| 1440 | 6.0 | | 513.829 |
| 1500 | 7.2 | | 617.848 |
| 1551 | 2.9 | | 245.927 |
| 1600 | 5.7 | 10.6 | 487.415 |
| 1620 | 1.5 | 2.8 | 126.998 |
| 1670 | 3.8 | 7.2 | 328.490 |
| 1700 | 5.2 | 9.7 | 446.010 |
| 1780 | 1.7 | 3.2 | 146.009 |
| 1800 | 4.6 | 8.5 | 391.618 |
| 1851 | 1.9 | 3.6 | 165.940 |
| 1900 | 4.1 | 7.8 | 356.042 |
| 2000 | 3.6 | 6.7 | 307.661 |
| 2100 | 3.1 | 5.9 | 268.600 |
| 2200 | 3.0 | 5.6 | 257.114 |
| 2300 | 2.6 | 4.8 | 222.179 |
| 2400 | 2.1 | 3.9 | 181.005 |
| 2500 | 1.6 | 3.0 | 139.775 |
| 2600 | 1.7 | 3.1 | 142.876 |
| 2700 | 1.3 | 2.5 | 113.704 |
| 2800 | 1.0 | 1.9 | 86.856 |
| 2900 | 1.3 | 2.4 | 108.626 |
| 3000 | 1.1 | 2.0 | 93.963 |
| 3100 | .9 | 1.8 | 80.770 |
| 3200 | 1.6 | 2.9 | 133.388 |
| TOTAL WEIGHT | | | 8590.902 |
| PR/PH | 2.250 | | |
| PR/1700 | .737 | | |
| PH/1800 | .373 | | |

TABLE 3.k CONT.'D

G-426

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.006

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.0 | | 464.373 |
| 1253 | 4.8 | | 277.879 |
| 1300 | 7.6 | | 440.124 |
| 1356 | 4.5 | | 259.568 |
| 1400 | 7.0 | | 406.872 |
| 1440 | 4.1 | | 235.435 |
| 1500 | 7.1 | | 408.920 |
| 1551 | 1.7 | | 96.201 |
| 1600 | 6.1 | 11.0 | 351.588 |
| 1620 | 2.5 | 4.5 | 141.959 |
| 1670 | 3.2 | 5.8 | 184.281 |
| 1700 | 5.2 | 9.4 | 300.633 |
| 1780 | 1.3 | 2.4 | 77.042 |
| 1800 | 4.5 | 8.1 | 258.693 |
| 1851 | 1.8 | 3.2 | 102.860 |
| 1900 | 4.9 | 8.9 | 283.641 |
| 2000 | 3.8 | 7.0 | 221.892 |
| 2100 | 3.3 | 6.0 | 190.319 |
| 2200 | 2.9 | 5.2 | 164.744 |
| 2300 | 2.4 | 4.3 | 136.232 |
| 2400 | 2.0 | 3.6 | 116.132 |
| 2500 | 1.8 | 3.2 | 101.834 |
| 2600 | 1.4 | 2.5 | 79.639 |
| 2700 | 1.2 | 2.1 | 66.702 |
| 2800 | .9 | 1.6 | 51.322 |
| 2900 | 1.0 | 1.8 | 57.689 |
| 3000 | 1.2 | 2.2 | 68.702 |
| 3100 | 2.0 | 3.7 | 116.322 |
| 3200 | 1.9 | 3.5 | 111.133 |

TOTAL WEIGHT 5772.732

PR/PH 2.392

PR/1700 .613

PH/1800 .298

SUM OF THE N-ALKANES 1400-3200 / PP+PH 10.245

TABLE 3.K CONT. 'D

G-427

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 7

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 5.2 | | 181.634 |
| 1253 | 3.6 | | 126.870 |
| 1300 | 7.2 | | 250.203 |
| 1356 | 5.5 | | 190.633 |
| 1400 | 7.5 | | 259.343 |
| 1440 | 5.3 | | 183.392 |
| 1500 | 6.6 | | 230.731 |
| 1551 | 1.5 | | 53.138 |
| 1600 | 5.6 | 9.8 | 195.934 |
| 1620 | 1.8 | 3.1 | 61.574 |
| 1670 | 3.6 | 6.2 | 124.833 |
| 1700 | 4.7 | 8.2 | 164.480 |
| 1780 | 1.4 | 2.5 | 49.120 |
| 1800 | 4.2 | 7.3 | 146.436 |
| 1851 | 1.9 | 3.3 | 65.784 |
| 1900 | 4.1 | 7.1 | 142.030 |
| 2000 | 4.1 | 7.0 | 141.187 |
| 2100 | 4.5 | 7.8 | 157.198 |
| 2200 | 4.1 | 7.2 | 143.744 |
| 2300 | 3.4 | 5.9 | 118.127 |
| 2400 | 2.6 | 4.5 | 91.022 |
| 2500 | 2.0 | 3.4 | 68.677 |
| 2600 | 1.9 | 3.4 | 67.189 |
| 2700 | 1.6 | 2.7 | 54.757 |
| 2800 | 1.3 | 2.3 | 45.677 |
| 2900 | 1.4 | 2.5 | 49.658 |
| 3000 | 1.4 | 2.5 | 49.977 |
| 3100 | 1.4 | 2.4 | 48.619 |
| 3200 | .5 | .9 | 18.500 |

TOTAL WEIGHT

3480.467

PR/PH 2.541

PR/1700 .759

PH/1800 .335

SUM OF THE N-ALKANES 1600-3200 / PR+PH 9.791

TABLE 3.k CONT.'D

G-428

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 17

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.8 | | 321.308 |
| 1253 | 4.5 | | 164.839 |
| 1300 | 8.3 | | 304.327 |
| 1356 | 3.9 | | 141.919 |
| 1400 | 7.1 | | 257.389 |
| 1440 | 5.0 | | 180.646 |
| 1500 | 6.6 | | 239.922 |
| 1551 | .9 | | 33.439 |
| 1600 | 5.3 | 9.7 | 193.353 |
| 1620 | 3.3 | 6.1 | 121.599 |
| 1670 | 4.4 | 8.0 | 159.276 |
| 1700 | 4.3 | 7.8 | 156.167 |
| 1780 | 1.8 | 3.2 | 65.043 |
| 1800 | 3.8 | 6.9 | 138.444 |
| 1851 | 1.9 | 3.5 | 71.059 |
| 1900 | 4.8 | 8.7 | 175.072 |
| 2000 | 3.8 | 6.9 | 137.985 |
| 2100 | 3.5 | 6.5 | 129.182 |
| 2200 | 3.3 | 6.0 | 119.535 |
| 2300 | 2.6 | 4.8 | 95.334 |
| 2400 | 2.3 | 4.2 | 83.628 |
| 2500 | 2.1 | 3.9 | 77.582 |
| 2600 | 1.6 | 2.9 | 58.051 |
| 2700 | 1.1 | 2.0 | 40.819 |
| 2800 | .9 | 1.6 | 31.837 |
| 2900 | 1.2 | 2.1 | 42.860 |
| 3000 | .7 | 1.3 | 26.779 |
| 3100 | 1.1 | 1.9 | 38.988 |
| 3200 | 1.1 | 2.0 | 39.546 |

TOTAL WEIGHT 3645.930

PR/PH 2.449

PR/1700 1.020

PH/1800 .470

SUM OF THE N-ALKANES 1400-3200 / PR+PH 7.067

TABLE 3.K CONT. 'D

G-429

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 33

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.7 | | 422.946 |
| 1253 | 4.0 | | 191.260 |
| 1300 | 7.8 | | 377.381 |
| 1356 | 5.4 | | 262.588 |
| 1400 | 7.3 | | 352.470 |
| 1440 | 4.5 | | 216.648 |
| 1500 | 7.2 | | 350.126 |
| 1551 | .4 | | 20.776 |
| 1600 | 5.9 | 10.9 | 287.004 |
| 1620 | 2.9 | 5.3 | 141.023 |
| 1670 | 3.9 | 7.1 | 188.416 |
| 1700 | 4.6 | 8.4 | 221.921 |
| 1780 | 1.4 | 2.6 | 68.335 |
| 1800 | 4.1 | 7.6 | 200.804 |
| 1851 | 1.8 | 3.3 | 87.137 |
| 1900 | 4.9 | 9.0 | 239.274 |
| 2000 | 3.9 | 7.2 | 189.341 |
| 2100 | 3.6 | 6.5 | 172.149 |
| 2200 | 3.1 | 5.7 | 151.503 |
| 2300 | 2.6 | 4.7 | 125.071 |
| 2400 | 2.3 | 4.2 | 110.165 |
| 2500 | 2.1 | 3.8 | 99.973 |
| 2600 | 1.6 | 2.9 | 77.251 |
| 2700 | 1.1 | 2.1 | 55.547 |
| 2800 | 1.0 | 1.8 | 48.014 |
| 2900 | 1.2 | 2.2 | 57.251 |
| 3000 | .7 | 1.3 | 33.811 |
| 3100 | 1.1 | 2.1 | 54.822 |
| 3200 | .7 | 1.4 | 36.236 |
| TOTAL WEIGHT | | | 4839.242 |
| PR/PH | 2.757 | | |
| PR/1700 | .849 | | |
| PH/1800 | .340 | | |

TABLE 3.k CONT. 'D

G-430

SUM OF THE N-ALKANES 1600-3200 / PR+PH 8.113

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 6.9 | | 305.718 |
| 1253 | 6.3 | | 278.723 |
| 1300 | 6.4 | | 282.084 |
| 1356 | 8.2 | | 363.075 |
| 1400 | 7.1 | | 313.846 |
| 1440 | 3.9 | | 172.761 |
| 1500 | 6.1 | | 268.854 |
| 1551 | 1.7 | | 75.256 |
| 1600 | 5.4 | 10.1 | 238.267 |
| 1620 | 2.5 | 4.7 | 110.113 |
| 1670 | 6.6 | 12.3 | 289.861 |
| 1700 | 4.4 | 8.3 | 196.470 |
| 1780 | 3.5 | 6.6 | 156.822 |
| 1800 | 4.3 | 8.0 | 189.404 |
| 1851 | 2.7 | 5.1 | 120.932 |
| 1900 | 3.6 | 6.8 | 160.054 |
| 2000 | 2.9 | 5.4 | 128.337 |
| 2100 | 2.6 | 4.9 | 116.570 |
| 2200 | 2.5 | 4.6 | 108.543 |
| 2300 | 2.3 | 4.2 | 99.551 |
| 2400 | 1.7 | 3.2 | 75.800 |
| 2500 | 1.3 | 2.4 | 56.582 |
| 2600 | 1.5 | 2.7 | 64.221 |
| 2700 | 1.2 | 2.2 | 52.788 |
| 2800 | .5 | 1.0 | 23.940 |
| 2900 | .9 | 1.7 | 41.238 |
| 3000 | 1.1 | 2.1 | 50.357 |
| 3100 | 1.0 | 1.9 | 44.557 |
| 3200 | .8 | 1.5 | 36.287 |
| TOTAL WEIGHT | | | 4421.010 |
| PR/PH | 1.848 | | |
| PR/1700 | 1.475 | | |
| PH/1800 | .828 | | |

TABLE 3.K CONT. 'D

SUM OF THE N-ALKANES 1600-3200 / PR+PH 3.768

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 11

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 6.1 | | 544.277 |
| 1253 | 5.4 | | 480.241 |
| 1300 | 6.4 | | 566.241 |
| 1356 | 6.5 | | 582.152 |
| 1400 | 7.7 | | 685.875 |
| 1440 | 2.6 | | 235.440 |
| 1500 | 7.3 | | 649.039 |
| 1551 | 1.0 | | 90.942 |
| 1600 | 6.5 | 11.4 | 579.439 |
| 1620 | 2.0 | 3.4 | 174.654 |
| 1670 | 5.2 | 9.1 | 461.972 |
| 1700 | 5.7 | 10.0 | 510.412 |
| 1780 | 2.6 | 4.6 | 234.840 |
| 1800 | 5.0 | 8.9 | 449.663 |
| 1851 | 2.3 | 4.1 | 207.867 |
| 1900 | 4.1 | 7.2 | 364.835 |
| 2000 | 3.3 | 5.8 | 295.973 |
| 2100 | 3.0 | 5.2 | 263.604 |
| 2200 | 2.8 | 4.9 | 246.758 |
| 2300 | 2.5 | 4.5 | 226.597 |
| 2400 | 2.0 | 3.5 | 180.110 |
| 2500 | 1.5 | 2.7 | 134.681 |
| 2600 | 1.7 | 2.9 | 147.820 |
| 2700 | 1.4 | 2.4 | 121.429 |
| 2800 | 1.1 | 2.0 | 102.222 |
| 2900 | 1.2 | 2.2 | 109.850 |
| 3000 | 1.2 | 2.1 | 105.142 |
| 3100 | 1.0 | 1.7 | 86.751 |
| 3200 | .8 | 1.5 | 74.829 |
| TOTAL WEIGHT | | | 8913.655 |
| PR/PH | 1.967 | | |
| PR/1700 | .905 | | |
| PH/1800 | .522 | | |

TABLE 3.k CONT. 'D

G-432

SUM. OF THE N-ALKANES, 1600-3200 / PR+PH 5.701

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.3 | | 330.863 |
| 1253 | 4.0 | | 158.580 |
| 1300 | 7.3 | | 294.572 |
| 1356 | 3.4 | | 134.335 |
| 1400 | 6.7 | | 268.022 |
| 1440 | 4.5 | | 179.979 |
| 1500 | 6.9 | | 278.011 |
| 1551 | .2 | | 9.689 |
| 1600 | 6.0 | 10.2 | 239.468 |
| 1620 | 3.4 | 5.7 | 135.269 |
| 1670 | 4.3 | 7.4 | 173.859 |
| 1700 | 4.8 | 8.1 | 190.802 |
| 1780 | 1.7 | 2.9 | 68.598 |
| 1800 | 4.1 | 6.9 | 163.384 |
| 1851 | 2.0 | 3.5 | 81.919 |
| 1900 | 5.2 | 8.8 | 207.589 |
| 2000 | 4.2 | 7.1 | 167.019 |
| 2100 | 3.8 | 6.4 | 151.049 |
| 2200 | 3.4 | 5.8 | 136.336 |
| 2300 | 2.7 | 4.5 | 106.777 |
| 2400 | 2.4 | 4.1 | 96.221 |
| 2500 | 2.2 | 3.8 | 89.060 |
| 2600 | 1.7 | 2.9 | 68.608 |
| 2700 | 1.2 | 2.0 | 47.820 |
| 2800 | 1.0 | 1.7 | 39.838 |
| 2900 | 1.2 | 2.0 | 46.590 |
| 3000 | .8 | 1.3 | 30.175 |
| 3100 | 1.6 | 2.8 | 65.951 |
| 3200 | 1.2 | 2.1 | 49.405 |

TOTAL WEIGHT 4009.789

PR/PH 2.534

PR/1700 .911

PH/1800 .420

SUM OF THE N-ALKANES 1600-3200 / PR+PH 7.820

TABLE 3.K CONT. 'D

G-433

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 9

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 10.4 | | 170.165 |
| 1253 | 6.1 | | 100.786 |
| 1300 | 7.2 | | 118.825 |
| 1356 | 5.3 | | 86.622 |
| 1400 | 6.4 | | 104.267 |
| 1440 | 7.2 | | 117.382 |
| 1500 | 5.2 | | 85.902 |
| 1551 | .8 | | 12.623 |
| 1600 | 4.1 | 8.0 | 67.761 |
| 1620 | 4.9 | 9.6 | 80.902 |
| 1670 | 6.6 | 12.8 | 107.960 |
| 1700 | 2.8 | 5.5 | 46.156 |
| 1780 | 3.1 | 6.0 | 51.064 |
| 1800 | 2.6 | 5.1 | 43.115 |
| 1851 | 2.3 | 4.5 | 38.059 |
| 1900 | 3.7 | 7.2 | 60.856 |
| 2000 | 2.9 | 5.7 | 48.094 |
| 2100 | 3.2 | 6.1 | 51.927 |
| 2200 | 3.1 | 6.1 | 51.614 |
| 2300 | 2.1 | 4.0 | 33.684 |
| 2400 | 1.8 | 3.5 | 29.204 |
| 2500 | 1.9 | 3.8 | 31.853 |
| 2600 | 1.3 | 2.6 | 21.719 |
| 2700 | .9 | 1.7 | 14.056 |
| 2800 | .6 | 1.2 | 9.810 |
| 2900 | .9 | 1.7 | 14.176 |
| 3000 | .8 | 1.5 | 12.968 |
| 3100 | 1.2 | 2.4 | 20.261 |
| 3200 | .6 | 1.2 | 9.777 |

TABLE 3.k CONT.'D

G-434

TOTAL WEIGHT

1641.590

PR/PH 2.114

PR/1700 2.339

PH/1800 1.184

SUM OF THE N-ALKANES 1600-3200 / PR+PH 3.566

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 9.0 | | 201.935 |
| 1253 | 5.2 | | 115.742 |
| 1300 | 7.0 | | 156.447 |
| 1356 | 4.3 | | 96.685 |
| 1400 | 6.2 | | 139.346 |
| 1440 | 6.4 | | 143.299 |
| 1500 | 5.7 | | 128.397 |
| 1551 | .4 | | 10.047 |
| 1600 | 4.5 | 8.2 | 101.843 |
| 1620 | 4.6 | 8.2 | 102.754 |
| 1670 | 6.5 | 11.6 | 144.922 |
| 1700 | 3.5 | 6.3 | 78.954 |
| 1780 | 2.8 | 5.0 | 61.931 |
| 1800 | 3.1 | 5.6 | 69.295 |
| 1851 | 2.3 | 4.1 | 51.303 |
| 1900 | 4.3 | 7.7 | 96.676 |
| 2000 | 3.4 | 6.1 | 75.951 |
| 2100 | 3.3 | 6.0 | 74.462 |
| 2200 | 3.1 | 5.6 | 70.217 |
| 2300 | 2.3 | 4.1 | 50.657 |
| 2400 | 1.9 | 3.4 | 42.674 |
| 2500 | 2.2 | 3.9 | 48.208 |
| 2600 | 1.5 | 2.7 | 33.399 |
| 2700 | 1.1 | 1.9 | 24.181 |
| 2800 | .9 | 1.6 | 20.077 |
| 2900 | 1.4 | 2.4 | 30.287 |
| 3000 | 1.0 | 1.7 | 21.729 |
| 3100 | 1.6 | 2.8 | 34.735 |
| 3200 | .6 | 1.1 | 14.083 |

TOTAL WEIGHT

2240.236

PR/PH 2.340

PR/1700 1.836

PH/1800 .894

SUM OF THE N-ALKANES 1600-3200 / PR+PH 4.290

TABLE 3.K CONT. 'D

G-435

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 14

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 6.5 | | 161.006 |
| 1253 | 5.3 | | 132.368 |
| 1300 | 5.3 | | 132.158 |
| 1356 | 5.6 | | 138.312 |
| 1400 | 6.4 | | 157.736 |
| 1440 | 5.7 | | 142.236 |
| 1500 | 5.6 | | 138.384 |
| 1551 | 2.5 | | 61.104 |
| 1600 | 4.9 | 8.6 | 121.073 |
| 1620 | 4.2 | 7.4 | 104.873 |
| 1670 | 6.3 | 11.0 | 155.138 |
| 1700 | 3.8 | 6.7 | 94.792 |
| 1780 | 2.8 | 4.8 | 68.507 |
| 1800 | 3.1 | 5.5 | 77.376 |
| 1851 | 2.4 | 4.2 | 59.696 |
| 1900 | 4.0 | 7.0 | 98.604 |
| 2000 | 3.0 | 5.3 | 75.553 |
| 2100 | 3.1 | 5.4 | 76.852 |
| 2200 | 2.7 | 4.7 | 66.609 |
| 2300 | 2.1 | 3.8 | 53.072 |
| 2400 | 1.8 | 3.2 | 45.741 |
| 2500 | 1.8 | 3.2 | 45.031 |
| 2600 | 1.3 | 2.3 | 32.198 |
| 2700 | 1.1 | 1.8 | 26.125 |
| 2800 | .7 | 1.3 | 18.167 |
| 2900 | 1.3 | 2.2 | 31.043 |
| 3000 | 2.5 | 4.3 | 61.305 |
| 3100 | 4.2 | 7.3 | 103.427 |
| 3200 | 0.0 | 0.0 | 0.000 |
| TOTAL WEIGHT | | | 2478.487 |
| PR/PH | 2.265 | | |
| PR/1700 | 1.637 | | |
| PH/1800 | .885 | | |

TABLE 3.k CONT. 'D

G-436

SUM OF THE N-ALKANES 1600-3200 / PR+PH 4.592

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 0.6 | | 82.736 |
| 1253 | 5.6 | | 53.837 |
| 1300 | 6.0 | | 57.893 |
| 1356 | 5.2 | | 50.469 |
| 1400 | 5.3 | | 50.824 |
| 1440 | 7.8 | | 75.289 |
| 1500 | 5.1 | | 49.311 |
| 1551 | 0.0 | | 0.000 |
| 1600 | 4.3 | 7.6 | 41.403 |
| 1620 | 6.2 | 11.0 | 60.264 |
| 1670 | 9.1 | 16.1 | 87.621 |
| 1700 | 2.5 | 4.5 | 24.419 |
| 1780 | 4.3 | 7.7 | 41.877 |
| 1800 | 2.1 | 3.7 | 20.131 |
| 1851 | 3.0 | 5.3 | 29.108 |
| 1900 | 4.1 | 7.3 | 40.005 |
| 2000 | 2.9 | 5.1 | 28.109 |
| 2100 | 3.4 | 5.9 | 32.468 |
| 2200 | 3.3 | 5.8 | 31.525 |
| 2300 | 2.1 | 3.7 | 20.280 |
| 2400 | 1.8 | 3.2 | 17.646 |
| 2500 | 2.1 | 3.8 | 20.660 |
| 2600 | 1.5 | 2.6 | 14.236 |
| 2700 | .9 | 1.5 | 8.376 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 1.2 | 2.1 | 11.629 |
| 3000 | .9 | 1.7 | 9.069 |
| 3100 | .7 | 1.3 | 7.001 |
| 3200 | 0.0 | 0.0 | 0.000 |

TOTAL WEIGHT

966.184

PR/PH 2.092

PR/1700 3.588

PH/1800 2.080

SUM OF THE N-ALKANES 1600-3200 / PR+PH 2.525

TABLE 3.K CONT. 'D

G-437

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 13

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.3 | | 117.748 |
| 1253 | 6.9 | | 98.618 |
| 1300 | 4.2 | | 59.181 |
| 1356 | 5.6 | | 79.788 |
| 1400 | 2.9 | | 41.201 |
| 1440 | 10.2 | | 144.524 |
| 1500 | 2.6 | | 37.646 |
| 1551 | 4.3 | | 60.400 |
| 1600 | 1.2 | 2.2 | 16.861 |
| 1620 | 7.7 | 14.0 | 109.505 |
| 1670 | 16.8 | 30.5 | 238.651 |
| 1700 | 0.0 | 0.0 | 0.000 |
| 1780 | 6.2 | 11.3 | 88.159 |
| 1800 | .5 | .8 | 6.569 |
| 1851 | 3.0 | 5.4 | 42.125 |
| 1900 | 2.5 | 4.5 | 34.948 |
| 2000 | 1.6 | 2.8 | 22.172 |
| 2100 | 2.7 | 4.9 | 38.301 |
| 2200 | 3.2 | 5.8 | 45.170 |
| 2300 | 1.4 | 2.5 | 19.333 |
| 2400 | 1.2 | 2.1 | 16.349 |
| 2500 | 1.9 | 3.5 | 27.704 |
| 2600 | 1.3 | 2.4 | 18.939 |
| 2700 | .5 | .9 | 6.799 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 1.1 | 2.0 | 15.332 |
| 3000 | 1.2 | 2.2 | 17.590 |
| 3100 | .6 | 1.1 | 8.436 |
| 3200 | .6 | 1.1 | 8.958 |

TOTAL WEIGHT

1421.007

PR/PH

2.707

PR/1700

R

PH/1800

13.421

SUM OF THE N-ALKANES 1600-3200 / PR+PH .929

TABLE 3.k CONT. 'D

G-438

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.8 | | 74.495 |
| 1253 | 9.1 | | 77.308 |
| 1300 | 4.6 | | 39.108 |
| 1356 | 8.3 | | 70.986 |
| 1400 | 3.9 | | 33.509 |
| 1440 | 12.2 | | 103.389 |
| 1500 | 0.0 | | 0.000 |
| 1551 | 4.0 | | 34.199 |
| 1600 | 0.0 | 0.0 | 0.000 |
| 1620 | 11.7 | 23.8 | 99.196 |
| 1670 | 15.3 | 31.1 | 129.948 |
| 1700 | 0.0 | 0.0 | 0.000 |
| 1780 | 8.6 | 17.6 | 73.435 |
| 1800 | 0.0 | 0.0 | 0.000 |
| 1851 | 3.4 | 7.0 | 29.065 |
| 1900 | 2.4 | 5.0 | 20.828 |
| 2000 | 2.3 | 4.6 | 19.139 |
| 2100 | 0.0 | 0.0 | 0.000 |
| 2200 | 0.0 | 0.0 | 0.000 |
| 2300 | 0.0 | 0.0 | 0.000 |
| 2400 | 1.1 | 2.2 | 9.110 |
| 2500 | 0.0 | 0.0 | 0.000 |
| 2600 | 0.0 | 0.0 | 0.000 |
| 2700 | .8 | 1.6 | 6.680 |
| 2800 | 0.0 | 0.0 | 0.000 |
| 2900 | 3.5 | 7.1 | 29.785 |
| 3000 | 0.0 | 0.0 | 0.000 |
| 3100 | 0.0 | 0.0 | 0.000 |
| 3200 | 0.0 | 0.0 | 0.000 |

TOTAL WEIGHT 850.181

PR/PH 1.770

PR/1700 R

PH/1800 R

SUM OF THE N-ALKANES 1600-3200 / PR+PH 0.21

TABLE 3.K CONT. 'D

G-439

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL. NO. 39

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 6.8 | | 789.564 |
| 1253 | 5.2 | | 605.188 |
| 1300 | 7.6 | | 892.984 |
| 1356 | 6.1 | | 708.828 |
| 1400 | 8.2 | | 960.382 |
| 1440 | 2.4 | | 277.264 |
| 1500 | 7.7 | | 896.040 |
| 1551 | 1.3 | | 154.242 |
| 1600 | 6.5 | 12.0 | 764.763 |
| 1620 | 1.4 | 2.6 | 164.645 |
| 1670 | 3.9 | 7.1 | 456.067 |
| 1700 | 6.0 | 11.0 | 700.097 |
| 1780 | 2.1 | 3.8 | 239.830 |
| 1800 | 5.1 | 9.4 | 598.322 |
| 1851 | 2.0 | 3.6 | 229.885 |
| 1900 | 4.2 | 7.7 | 492.514 |
| 2000 | 3.5 | 6.4 | 411.406 |
| 2100 | 3.0 | 5.5 | 351.503 |
| 2200 | 2.8 | 5.2 | 330.305 |
| 2300 | 2.6 | 4.7 | 299.746 |
| 2400 | 2.1 | 3.8 | 244.185 |
| 2500 | 1.7 | 3.1 | 198.937 |
| 2600 | 1.6 | 2.9 | 187.374 |
| 2700 | 1.3 | 2.4 | 153.514 |
| 2800 | 1.1 | 1.9 | 123.504 |
| 2900 | 1.1 | 2.1 | 133.785 |
| 3000 | 1.0 | 1.8 | 117.303 |
| 3100 | .9 | 1.6 | 105.259 |
| 3200 | .8 | 1.4 | 90.091 |
| TOTAL WEIGHT | | | 11677.528 |
| PR/PH | 1.902 | | |
| PR/1700 | .651 | | |
| PH/1800 | .401 | | |

TABLE 3.k CONT. 'D

G-440

SUM OF THE N-ALKANES 1400-3200 / GRAPH 7.620

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 4.8 | | 243.424 |
| 1253 | 3.2 | | 162.795 |
| 1300 | 5.5 | | 282.937 |
| 1356 | 4.0 | | 201.999 |
| 1400 | 7.3 | | 371.421 |
| 1440 | 5.8 | | 296.607 |
| 1500 | 8.8 | | 449.680 |
| 1551 | 2.0 | | 104.443 |
| 1600 | 7.3 | 12.4 | 372.560 |
| 1620 | 1.8 | 3.1 | 92.910 |
| 1670 | 3.3 | 5.7 | 170.744 |
| 1700 | 5.5 | 9.4 | 281.003 |
| 1780 | 1.1 | 1.8 | 55.025 |
| 1800 | 4.5 | 7.7 | 229.829 |
| 1851 | 1.7 | 2.9 | 87.132 |
| 1900 | 4.5 | 7.7 | 230.350 |
| 2000 | 3.7 | 6.4 | 190.576 |
| 2100 | 3.3 | 5.7 | 170.497 |
| 2200 | 3.2 | 5.5 | 163.698 |
| 2300 | 3.2 | 5.5 | 163.708 |
| 2400 | 2.9 | 5.0 | 149.335 |
| 2500 | 2.4 | 4.0 | 121.038 |
| 2600 | 2.2 | 3.7 | 111.555 |
| 2700 | 1.6 | 2.8 | 82.452 |
| 2800 | 1.3 | 2.3 | 68.489 |
| 2900 | 1.4 | 2.4 | 72.692 |
| 3000 | 1.1 | 1.9 | 56.247 |
| 3100 | 1.1 | 1.8 | 54.993 |
| 3200 | 1.3 | 2.3 | 68.778 |

TOTAL WEIGHT

5106.918

PR/PH 3.103

PR/1700 .608

PH/1800 .239

SUM OF THE N-ALKANES 1600-3200 / PR+PH 11.462

TABLE 3.k CONT. 'D

G-441

TABLE 3.k CONT.'D

Summary for Second Nutrient Experiment:
B. Aromatic Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment Time (Hours) |
|----------|---------------|------------------------|
| 1 | RUBN-37 | 0 |
| 2 | RUBN-38 | 0 |
| 3 | RUBN-10 | 29.5 |
| 4 | RUBN-32 | 29.5 |
| 5 | RUBN-12 | 80.0 |
| 6 | RUBN-15 | 80.0 |
| 7 | RUBN-31 | 80.0 |
| 8 | RUBN-35 | 99.0 |
| 9 | RUBN-36 | 99.0 |
| 10 | RUBN- 7 | 142.5 |
| 11 | RUBN-17 | 142.5 |
| 12 | RUBN-33 | 142.5 |
| 13 | RUBN- 4 | 164.0 |
| 14 | RUBN-11 | 164.0 |
| 15 | RUBN-16 | 164.0 |
| 16 | RUBN- 9 | 213.5 |
| 17 | RUBN-19 | 213.5 |
| 18 | RUBN-14 | 250.0 |
| 19 | RUBN-22 | 250.0 |
| 20 | RUBN-13 | 384.0 |
| 21 | RUBN-28 | 384.0 |
| 22 | RUBN-39 | 384.0 |
| 23 | RUBN-40 | 384.0 |

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 38

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 6.5 | 11.157 |
| 1870 | 17.4 | 29.845 |
| 1910 | 8.9 | 15.364 |
| 1980 | 10.9 | 18.703 |
| 2020 | 21.3 | 36.626 |
| 2060 | 4.4 | 7.572 |
| 2080 | 2.7 | 4.662 |
| 2110 | .8 | 1.310 |
| 2130 | 6.1 | 10.576 |
| 2170 | 6.3 | 10.755 |
| 2210 | 4.5 | 7.811 |
| 2220 | .6 | 1.043 |
| 2240 | 2.0 | 3.414 |
| 2290 | .2 | .412 |
| 2310 | 1.0 | 1.761 |
| 2430 | 3.5 | 5.963 |
| 2520 | 2.9 | 5.005 |

TOTAL WEIGHT

171.979

TABLE 3.K CONT.'D

G-443

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 37

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 7.1 | 10.992 |
| 1870 | 14.8 | 23.047 |
| 1910 | 9.4 | 14.663 |
| 1980 | 10.0 | 15.556 |
| 2020 | 21.9 | 34.109 |
| 2060 | 4.7 | 7.372 |
| 2080 | 2.0 | 3.100 |
| 2110 | .7 | 1.020 |
| 2130 | 6.7 | 10.408 |
| 2170 | 6.6 | 10.283 |
| 2210 | 4.3 | 6.770 |
| 2220 | .7 | 1.142 |
| 2240 | 2.1 | 3.333 |
| 2290 | .4 | .701 |
| 2310 | 1.0 | 1.494 |
| 2430 | 3.8 | 5.921 |
| 2520 | 3.8 | 5.947 |

TABLE 3.k CONT. 'D

G-444

TOTAL WEIGHT

155.856

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 2.9 | 2.651 |
| 1870 | 11.2 | 10.371 |
| 1910 | 8.8 | 8.170 |
| 1980 | 8.6 | 7.921 |
| 2020 | 22.3 | 20.641 |
| 2060 | 6.0 | 5.589 |
| 2080 | 3.3 | 3.022 |
| 2110 | 1.7 | 1.586 |
| 2130 | 7.6 | 7.078 |
| 2170 | 7.9 | 7.288 |
| 2210 | 5.1 | 4.702 |
| 2220 | .8 | .769 |
| 2240 | 2.3 | 2.143 |
| 2290 | 1.0 | .905 |
| 2310 | 1.2 | 1.145 |
| 2430 | 4.5 | 4.167 |
| 2520 | 4.7 | 4.378 |
| TOTAL WEIGHT | | 92.526 |

TABLE 3.k CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 32

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 7.7 | 6.117 |
| 1910 | 6.1 | 4.856 |
| 1980 | 8.8 | 6.921 |
| 2020 | 23.5 | 18.587 |
| 2060 | 6.5 | 5.136 |
| 2080 | 3.8 | 3.036 |
| 2110 | 1.9 | 1.516 |
| 2130 | 9.0 | 7.090 |
| 2170 | 9.3 | 7.394 |
| 2210 | 6.2 | 4.913 |
| 2220 | 1.0 | .768 |
| 2240 | 2.8 | 2.177 |
| 2290 | 1.1 | .838 |
| 2310 | 1.5 | 1.175 |
| 2430 | 5.3 | 4.211 |
| 2520 | 5.5 | 4.354 |
| TOTAL WEIGHT | | 79.088 |

G-446

TABLE 3.k CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 12

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 5.8 | 8.447 |
| 1870 | 13.6 | 19.824 |
| 1910 | 9.2 | 13.502 |
| 1980 | 8.1 | 11.770 |
| 2020 | 20.6 | 30.094 |
| 2060 | 5.5 | 7.978 |
| 2080 | 2.9 | 4.291 |
| 2110 | 1.6 | 2.359 |
| 2130 | 6.7 | 9.713 |
| 2170 | 6.8 | 9.949 |
| 2210 | 4.5 | 6.563 |
| 2220 | 1.0 | 1.511 |
| 2240 | 2.7 | 4.004 |
| 2290 | .9 | 1.359 |
| 2310 | 1.1 | 1.658 |
| 2430 | 4.4 | 6.375 |
| 2520 | 4.5 | 6.641 |
| TOTAL WEIGHT | | 146.038 |

TABLE 3.K CONT.'D

G-447

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 15

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 0.0 | 0.000 |
| 1870 | 3.2 | 6.308 |
| 1910 | 5.7 | 11.066 |
| 1980 | 11.3 | 21.948 |
| 2020 | 28.0 | 54.448 |
| 2060 | 6.1 | 11.791 |
| 2080 | 3.2 | 6.158 |
| 2110 | 1.6 | 3.189 |
| 2130 | 8.1 | 15.753 |
| 2170 | 9.6 | 18.651 |
| 2210 | 7.0 | 13.590 |
| 2220 | 1.1 | 2.070 |
| 2240 | 2.7 | 5.348 |
| 2290 | .6 | 1.178 |
| 2310 | 1.6 | 3.073 |
| 2430 | 5.5 | 10.610 |
| 2520 | 4.9 | 9.468 |

TOTAL WEIGHT

194.647

TABLE 3.k CONT. 'D

G-448

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 31

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 4.6 | 6.261 |
| 1870 | 15.6 | 21.191 |
| 1910 | 8.5 | 11.549 |
| 1980 | 11.1 | 15.078 |
| 2020 | 22.6 | 30.724 |
| 2060 | 4.6 | 6.308 |
| 2080 | 2.4 | 3.259 |
| 2110 | .7 | 1.002 |
| 2130 | 6.9 | 9.427 |
| 2170 | 7.1 | 9.671 |
| 2210 | 4.9 | 6.724 |
| 2220 | .7 | .896 |
| 2240 | 2.4 | 3.267 |
| 2290 | .0 | .054 |
| 2310 | .4 | .586 |
| 2430 | 4.1 | 5.563 |
| 2520 | 3.3 | 4.542 |
| TOTAL WEIGHT | | 136.103 |

TABLE 3.K CONT. 'D

G-449

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 35

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|---------------------|---------------------|-------------------------|
| 1750 | 4.7 | 7.353 |
| 1870 | 13.3 | 20.611 |
| 1910 | 9.3 | 14.392 |
| 1980 | 8.3 | 12.926 |
| 2020 | 21.0 | 32.617 |
| 2060 | 5.6 | 8.671 |
| 2080 | 3.1 | 4.830 |
| 2110 | 1.6 | 2.520 |
| 2130 | 6.7 | 10.460 |
| 2170 | 7.1 | 11.029 |
| 2210 | 5.0 | 7.731 |
| 2220 | .8 | 1.253 |
| 2240 | 2.1 | 3.277 |
| 2290 | .9 | 1.361 |
| 2310 | 1.2 | 1.844 |
| 2430 | 4.5 | 7.027 |
| 2520 | 4.6 | 7.149 |
| TOTAL WEIGHT | | 155.051 |

TABLE 3.k CONT. 'D

G-450

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 36

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 4.2 | 8.175 |
| 1870 | 16.8 | 32.419 |
| 1910 | 7.5 | 14.482 |
| 1980 | 9.9 | 19.125 |
| 2020 | 19.6 | 37.987 |
| 2060 | 4.3 | 8.256 |
| 2080 | 2.8 | 5.366 |
| 2110 | .8 | 1.606 |
| 2130 | 6.5 | 12.630 |
| 2170 | 6.0 | 11.631 |
| 2210 | 4.5 | 8.799 |
| 2220 | .4 | .868 |
| 2240 | 1.9 | 3.699 |
| 2290 | .5 | .876 |
| 2310 | 2.8 | 5.506 |
| 2430 | 5.4 | 10.384 |
| 2520 | 6.1 | 11.725 |
| TOTAL WEIGHT | | 193.534 |

TABLE 3.K CONT. 'D

G-451

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 7

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 4.6 | 5.917 |
| 1870 | 11.7 | 15.109 |
| 1910 | 8.0 | 10.309 |
| 1980 | 9.0 | 11.688 |
| 2020 | 19.3 | 24.901 |
| 2060 | 4.7 | 6.036 |
| 2080 | 1.7 | 2.209 |
| 2110 | .6 | .751 |
| 2130 | 14.4 | 18.574 |
| 2170 | 6.4 | 8.334 |
| 2210 | 4.9 | 6.393 |
| 2220 | .4 | .512 |
| 2240 | 2.5 | 3.283 |
| 2290 | .4 | .566 |
| 2310 | 1.1 | 1.474 |
| 2430 | 5.9 | 7.627 |
| 2520 | 4.4 | 5.669 |

TOTAL WEIGHT

129.352

TABLE 3.k CONT. 'D

G-452

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 4.2 | 4.716 |
| 1870 | 15.3 | 17.232 |
| 1910 | 9.5 | 10.764 |
| 1980 | 10.9 | 12.297 |
| 2020 | 23.5 | 26.555 |
| 2060 | 4.7 | 5.358 |
| 2080 | 2.2 | 2.517 |
| 2110 | .9 | .983 |
| 2130 | 6.4 | 7.251 |
| 2170 | 7.1 | 7.976 |
| 2210 | 4.8 | 5.401 |
| 2220 | .7 | .752 |
| 2240 | 2.2 | 2.514 |
| 2290 | .0 | .034 |
| 2310 | .4 | .477 |
| 2430 | 3.8 | 4.242 |
| 2520 | 3.3 | 3.757 |
| TOTAL WEIGHT | | 112.828 |

TABLE 3.k CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 33

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 5.2 | 5.910 |
| 1870 | 13.4 | 15.374 |
| 1910 | 9.2 | 10.543 |
| 1980 | 10.3 | 11.849 |
| 2020 | 23.0 | 26.347 |
| 2060 | 4.9 | 5.569 |
| 2080 | 2.0 | 2.303 |
| 2110 | .7 | .750 |
| 2130 | 7.0 | 8.037 |
| 2170 | 7.4 | 8.539 |
| 2210 | 4.9 | 5.622 |
| 2220 | .8 | .871 |
| 2240 | 2.3 | 2.678 |
| 2290 | .0 | .056 |
| 2310 | .4 | .488 |
| 2430 | 4.2 | 4.837 |
| 2520 | 4.3 | 4.965 |

TOTAL WEIGHT

114.737

TABLE 3.k CONT. 'D

G-454

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 15.1 | 16.269 |
| 1910 | 8.6 | 9.260 |
| 1980 | 11.3 | 12.209 |
| 2020 | 23.8 | 25.674 |
| 2060 | 4.8 | 5.201 |
| 2080 | 2.6 | 2.820 |
| 2110 | .9 | 1.017 |
| 2130 | 6.6 | 7.162 |
| 2170 | 7.1 | 7.678 |
| 2210 | 5.4 | 5.847 |
| 2220 | .7 | .795 |
| 2240 | 2.2 | 2.394 |
| 2290 | .4 | .437 |
| 2310 | 1.2 | 1.299 |
| 2430 | 5.6 | 6.066 |
| 2520 | 3.6 | 3.868 |
| TOTAL WEIGHT | | 107.997 |

TABLE 3.k CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 11

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 3.9 | 4.858 |
| 1870 | 14.5 | 17.965 |
| 1910 | 8.4 | 10.404 |
| 1980 | 11.1 | 13.735 |
| 2020 | 23.5 | 29.002 |
| 2060 | 4.8 | 5.933 |
| 2080 | 2.5 | 3.137 |
| 2110 | .9 | 1.120 |
| 2130 | 7.0 | 8.641 |
| 2170 | 7.4 | 9.129 |
| 2210 | 5.2 | 6.439 |
| 2220 | .7 | .852 |
| 2240 | 2.3 | 2.832 |
| 2290 | .0 | .051 |
| 2310 | .4 | .525 |
| 2430 | 3.8 | 4.756 |
| 2520 | 3.4 | 4.216 |

TABLE 3.k CONT.'D

G-456

TOTAL WEIGHT

123.595

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 16

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 4.9 | 6.260 |
| 1870 | 16.6 | 21.291 |
| 1910 | 8.4 | 10.798 |
| 1980 | 11.4 | 14.662 |
| 2020 | 22.5 | 28.873 |
| 2060 | 4.3 | 5.517 |
| 2080 | 2.5 | 3.235 |
| 2110 | .7 | .941 |
| 2130 | 6.7 | 8.521 |
| 2170 | 6.8 | 8.730 |
| 2210 | 5.3 | 6.728 |
| 2220 | .6 | .763 |
| 2240 | 2.1 | 2.699 |
| 2290 | .0 | .041 |
| 2310 | .3 | .365 |
| 2430 | 3.6 | 4.564 |
| 2520 | 3.2 | 4.081 |
| TOTAL WEIGHT | | 128.067 |

TABLE 3.K CONT. 'D

G-43 /

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 9

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 0.0 | 0.000 |
| 1870 | 4.9 | 3.001 |
| 1910 | 7.1 | 4.406 |
| 1980 | 10.5 | 6.512 |
| 2020 | 27.2 | 16.801 |
| 2060 | 5.8 | 3.588 |
| 2080 | 3.0 | 1.841 |
| 2110 | 1.3 | .825 |
| 2130 | 8.1 | 5.005 |
| 2170 | 9.2 | 5.681 |
| 2210 | 6.5 | 4.006 |
| 2220 | 1.0 | .635 |
| 2240 | 2.7 | 1.683 |
| 2290 | .6 | .386 |
| 2310 | 1.4 | .897 |
| 2430 | 5.2 | 3.235 |
| 2520 | 5.4 | 3.349 |

TOTAL WEIGHT

61.851

G-458

TABLE 3.1 CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 19

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 6.9 | 5.254 |
| 1910 | 8.1 | 6.186 |
| 1980 | 11.1 | 8.451 |
| 2020 | 27.7 | 21.038 |
| 2060 | 6.0 | 4.563 |
| 2080 | 2.8 | 2.114 |
| 2110 | 1.3 | .972 |
| 2130 | 7.5 | 5.695 |
| 2170 | 8.6 | 6.569 |
| 2210 | 6.0 | 4.542 |
| 2220 | .9 | .711 |
| 2240 | 2.6 | 1.991 |
| 2290 | .6 | .447 |
| 2310 | 1.4 | 1.082 |
| 2430 | 4.5 | 3.408 |
| 2520 | 3.9 | 2.954 |

TOTAL WEIGHT

75.976

TABLE 3.K CONT. 'D

G-459

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 14

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 2.8 | 1.744 |
| 1870 | 8.1 | 5.132 |
| 1910 | 4.9 | 3.095 |
| 1980 | 8.3 | 5.217 |
| 2020 | 22.9 | 14.490 |
| 2060 | 6.5 | 4.101 |
| 2080 | 2.9 | 1.827 |
| 2110 | 2.1 | 1.312 |
| 2130 | 8.1 | 5.138 |
| 2170 | 8.6 | 5.406 |
| 2210 | 5.4 | 3.385 |
| 2220 | 1.0 | .626 |
| 2240 | 2.5 | 1.569 |
| 2290 | .9 | .564 |
| 2310 | 1.7 | 1.063 |
| 2430 | 7.8 | 4.900 |
| 2520 | 5.8 | 3.652 |

TOTAL WEIGHT

63.220

TABLE 3.k CONT. 1'D

G-460

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 22

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 11.2 | 8.790 |
| 1910 | 6.8 | 5.355 |
| 1980 | 12.1 | 9.501 |
| 2020 | 26.1 | 20.509 |
| 2060 | 5.0 | 3.956 |
| 2080 | 2.7 | 2.136 |
| 2110 | .9 | .743 |
| 2130 | 7.7 | 6.053 |
| 2170 | 8.4 | 6.601 |
| 2210 | 6.3 | 4.955 |
| 2220 | .9 | .683 |
| 2240 | 2.0 | 1.556 |
| 2290 | .0 | .035 |
| 2310 | .6 | .480 |
| 2430 | 4.9 | 3.815 |
| 2520 | 4.2 | 3.332 |
| TOTAL WEIGHT | | 78.499 |

TABLE 3.k CONT.'D

G-461

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 28

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 1.2 | .497 |
| 1910 | 3.2 | 1.342 |
| 1980 | 9.1 | 3.789 |
| 2020 | 26.2 | 10.953 |
| 2060 | 7.1 | 2.962 |
| 2080 | 3.9 | 1.620 |
| 2110 | 2.4 | .984 |
| 2130 | 10.5 | 4.395 |
| 2170 | 11.0 | 4.590 |
| 2210 | 7.4 | 3.110 |
| 2220 | 1.4 | .571 |
| 2240 | 2.9 | 1.228 |
| 2290 | 1.0 | .416 |
| 2310 | 1.9 | .780 |
| 2430 | 6.8 | 2.831 |
| 2520 | 4.1 | 1.733 |
| TOTAL WEIGHT | | 41.802 |

TABLE 3.k CONT. 'D

G-463

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 39

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 2.3 | 2.767 |
| 1870 | 11.8 | 14.289 |
| 1910 | 8.1 | 9.849 |
| 1980 | 11.3 | 13.718 |
| 2020 | 24.5 | 29.790 |
| 2060 | 5.1 | 6.246 |
| 2080 | 2.3 | 2.772 |
| 2110 | .9 | 1.060 |
| 2130 | 7.9 | 9.537 |
| 2170 | 8.5 | 10.287 |
| 2210 | 5.5 | 6.705 |
| 2220 | .9 | 1.060 |
| 2240 | 2.5 | 3.043 |
| 2290 | .0 | .046 |
| 2310 | .4 | .488 |
| 2430 | 4.3 | 5.186 |
| 2520 | 3.7 | 4.550 |

TOTAL WEIGHT

121.393

TABLE 3.k CONT 'D

G-464

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBN, REPL NO. 40

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 0.0 | 0.000 |
| 1870 | 11.6 | 13.284 |
| 1910 | 8.0 | 9.182 |
| 1980 | 10.7 | 12.334 |
| 2020 | 24.1 | 27.670 |
| 2060 | 5.8 | 6.660 |
| 2080 | 2.2 | 2.549 |
| 2110 | .6 | .719 |
| 2130 | 8.0 | 9.241 |
| 2170 | 8.0 | 9.178 |
| 2210 | 5.8 | 6.615 |
| 2220 | .9 | 1.078 |
| 2240 | 2.8 | 3.215 |
| 2290 | .6 | .678 |
| 2310 | 1.2 | 1.370 |
| 2430 | 5.1 | 5.907 |
| 2520 | 4.6 | 5.321 |
| TOTAL WEIGHT | | 115.003 |

TABLE 3.K CONT.'D

G-465

TABLE 3.1

Extraction Experiment Summary:

A. Saturated Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment |
|----------|---------------|---------------------------------|
| 1 | RUBO-1 | 2216-O.D., 1.2-then add oil |
| 2 | RUBO-2 | 2216-O.D., 1.2-then add oil |
| 3 | RUBO-3 | 2216-O.D., 0.0-then add oil |
| 4 | RUBO-4 | 2216-O.D., 0.0-then add oil |
| 5 | RUBO-5 | 3.5%NaCl-O.D., 0.0-then add oil |
| 6 | RUBO-6 | 3.5%NaCl-O.D., 0.0-then add oil |

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 9.5 | | 720.272 |
| 1253 | 4.9 | | 372.153 |
| 1300 | 9.1 | | 690.987 |
| 1356 | 3.2 | | 245.339 |
| 1400 | 8.4 | | 635.883 |
| 1440 | 3.6 | | 272.785 |
| 1500 | 6.9 | | 522.810 |
| 1551 | 1.4 | | 109.862 |
| 1600 | 6.1 | 11.5 | 459.743 |
| 1620 | 2.2 | 4.2 | 170.237 |
| 1670 | 2.6 | 4.9 | 195.948 |
| 1700 | 5.0 | 9.5 | 380.927 |
| 1780 | 1.1 | 2.0 | 79.836 |
| 1800 | 4.3 | 8.1 | 325.943 |
| 1851 | 1.4 | 2.7 | 109.532 |
| 1900 | 4.7 | 8.9 | 358.187 |
| 2000 | 3.8 | 7.2 | 287.009 |
| 2100 | 3.3 | 6.2 | 249.858 |
| 2200 | 2.9 | 5.5 | 222.547 |
| 2300 | 2.5 | 4.8 | 190.667 |
| 2400 | 2.2 | 4.1 | 165.300 |
| 2500 | 1.9 | 3.5 | 141.106 |
| 2600 | 1.5 | 2.7 | 110.216 |
| 2700 | 1.2 | 2.2 | 88.450 |
| 2800 | .9 | 1.6 | 65.273 |
| 2900 | 1.0 | 1.8 | 73.339 |
| 3000 | .9 | 1.7 | 69.367 |
| 3100 | 1.7 | 3.3 | 130.917 |
| 3200 | 1.8 | 3.4 | 136.088 |

TOTAL WEIGHT

7580.580

PR/PH 2.454

PR/1700 .514

PH/1800 .245

SUM OF THE N-ALKANES 1600-3200 / PR+PH 17.528

TABLE 3.1 CONT. 'D

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBO, REPL. NO. 2

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 9.5 | | 820.690 |
| 1253 | 4.6 | | 397.529 |
| 1300 | 8.2 | | 710.051 |
| 1356 | 4.1 | | 352.429 |
| 1400 | 7.0 | | 603.345 |
| 1440 | 3.6 | | 313.725 |
| 1500 | 7.1 | | 614.113 |
| 1551 | 1.6 | | 138.114 |
| 1600 | 6.4 | 11.8 | 552.710 |
| 1620 | 2.3 | 4.2 | 198.101 |
| 1670 | 2.8 | 5.1 | 238.179 |
| 1700 | 5.3 | 9.7 | 458.135 |
| 1780 | 1.1 | 2.0 | 94.884 |
| 1800 | 4.4 | 8.1 | 381.796 |
| 1851 | 1.6 | 2.9 | 138.324 |
| 1900 | 4.7 | 8.7 | 407.706 |
| 2000 | 3.7 | 6.8 | 321.114 |
| 2100 | 3.2 | 5.8 | 273.626 |
| 2200 | 2.8 | 5.1 | 238.259 |
| 2300 | 2.3 | 4.3 | 200.398 |
| 2400 | 2.0 | 3.7 | 173.331 |
| 2500 | 1.7 | 3.2 | 151.069 |
| 2600 | 1.4 | 2.5 | 119.494 |
| 2700 | 1.1 | 2.1 | 99.070 |
| 2800 | .9 | 1.7 | 79.383 |
| 2900 | 1.2 | 2.2 | 104.090 |
| 3000 | 1.6 | 2.9 | 136.376 |
| 3100 | 2.0 | 3.8 | 176.634 |
| 3200 | 1.8 | 3.4 | 157.697 |
| TOTAL WEIGHT | | | 8650.373 |
| PR/PH | 2.510 | | |
| PR/1700 | .520 | | |
| PH/1800 | .249 | | |

TABLE 3.1 CONT. 'D

G-468

SUM OF THE N-ALKANES 1600-3200 / PR+PH 12.103

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBO, REPL. NO. 3

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 11.1 | | 926.747 |
| 1253 | 4.9 | | 409.811 |
| 1300 | 9.0 | | 755.278 |
| 1356 | 3.4 | | 282.742 |
| 1400 | 7.3 | | 609.480 |
| 1440 | 3.7 | | 308.417 |
| 1500 | 7.0 | | 582.154 |
| 1551 | 1.5 | | 121.558 |
| 1600 | 6.1 | 11.6 | 508.339 |
| 1620 | 2.3 | 4.3 | 189.156 |
| 1670 | 2.6 | 4.9 | 214.632 |
| 1700 | 5.0 | 9.5 | 415.827 |
| 1780 | 1.1 | 2.1 | 89.847 |
| 1800 | 4.4 | 8.3 | 363.949 |
| 1851 | 1.5 | 2.9 | 126.150 |
| 1900 | 4.8 | 9.2 | 401.692 |
| 2000 | 3.9 | 7.4 | 323.513 |
| 2100 | 3.2 | 6.2 | 270.831 |
| 2200 | 2.7 | 5.3 | 229.874 |
| 2300 | 2.3 | 4.4 | 190.558 |
| 2400 | 1.9 | 3.7 | 160.846 |
| 2500 | 1.7 | 3.2 | 139.553 |
| 2600 | 1.3 | 2.5 | 110.544 |
| 2700 | 1.1 | 2.1 | 89.650 |
| 2800 | .8 | 1.6 | 70.647 |
| 2900 | .9 | 1.8 | 76.913 |
| 3000 | 1.2 | 2.3 | 102.248 |
| 3100 | 1.6 | 3.1 | 136.762 |
| 3200 | 1.8 | 3.5 | 152.809 |
| TOTAL WEIGHT | | | 8360.526 |
| PR/PH | 2.389 | | |
| PR/1700 | .516 | | |
| PH/1800 | .247 | | |

TABLE 3.1 CONT. 'D

G-469

SUM OF THE N-ALKANES 1100-3200 / 1700+PH 12.398

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBO, REPL. NO. 4

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 10.6 | | 837.849 |
| 1253 | 5.4 | | 426.854 |
| 1300 | 9.3 | | 735.700 |
| 1356 | 3.0 | | 238.977 |
| 1400 | 8.3 | | 657.174 |
| 1440 | 3.4 | | 269.292 |
| 1500 | 6.6 | | 523.174 |
| 1551 | 1.3 | | 101.970 |
| 1600 | 5.9 | 11.3 | 463.397 |
| 1620 | 2.2 | 4.1 | 170.181 |
| 1670 | 2.5 | 4.7 | 194.343 |
| 1700 | 5.0 | 9.6 | 394.713 |
| 1780 | 1.1 | 2.0 | 83.450 |
| 1800 | 4.4 | 8.5 | 349.515 |
| 1851 | 1.4 | 2.8 | 113.623 |
| 1900 | 4.8 | 9.2 | 377.455 |
| 2000 | 3.8 | 7.3 | 298.638 |
| 2100 | 3.2 | 6.1 | 251.051 |
| 2200 | 2.7 | 5.2 | 215.124 |
| 2300 | 2.3 | 4.4 | 182.050 |
| 2400 | 2.0 | 3.8 | 156.556 |
| 2500 | 1.7 | 3.3 | 136.872 |
| 2600 | 1.4 | 2.6 | 108.154 |
| 2700 | 1.1 | 2.2 | 90.063 |
| 2800 | .9 | 1.6 | 67.662 |
| 2900 | 1.0 | 1.9 | 77.976 |
| 3000 | 1.2 | 2.2 | 92.066 |
| 3100 | 1.7 | 3.3 | 135.254 |
| 3200 | 2.0 | 3.8 | 154.470 |

TOTAL WEIGHT

7903.604

PR/PH 2.329

PR/1700 .492

PH/1800 .239

SUM OF THE N-ALKANES 1600-3200 / PR+PH 12.783

TABLE 3.1 CONT. 'D

G-470

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 8.6 | | 407.1668.564 |
| 1253 | 3.9 | | 183.6993.864 |
| 1300 | 5.6 | | 264.5375.564 |
| 1356 | 4.5 | | 212.2174.464 |
| 1400 | 7.8 | | 369.7567.777 |
| 1440 | 4.5 | | 212.0834.461 |
| 1500 | 7.0 | | 332.0026.983 |
| 1551 | 2.6 | | 124.5862.626 |
| 1600 | 5.9 | 10.6 | 279.4645.882 |
| 1620 | 1.4 | 2.4 | 64.4401.355 |
| 1670 | 2.9 | 5.2 | 138.4122.911 |
| 1700 | 5.1 | 9.1 | 240.1755.052 |
| 1780 | .9 | 1.7 | 44.178.929 |
| 1800 | 4.3 | 7.7 | 204.3524.298 |
| 1851 | 1.7 | 3.0 | 78.7161.656 |
| 1900 | 4.5 | 8.1 | 213.7604.496 |
| 2000 | 3.9 | 7.0 | 185.9093.910 |
| 2100 | 4.1 | 7.4 | 196.6014.135 |
| 2200 | 4.0 | 7.1 | 188.4923.965 |
| 2300 | 3.4 | 6.1 | 162.3423.415 |
| 2400 | 2.6 | 4.7 | 125.4942.640 |
| 2500 | 2.0 | 3.5 | 93.4991.967 |
| 2600 | 1.9 | 3.5 | 92.5781.947 |
| 2700 | 1.5 | 2.7 | 72.5071.525 |
| 2800 | 1.1 | 1.9 | 50.8761.070 |
| 2900 | 1.5 | 2.6 | 69.0101.452 |
| 3000 | 1.2 | 2.1 | 56.0021.118 |
| 3100 | 1.0 | 1.9 | 49.6111.043 |
| 3200 | .9 | 1.6 | 41.724.811 |

TOTAL WEIGHT

4754.187

PR/PH

3.133

PR/1700

.576

PH/1800

.216

SUM OF THE N-ALKANES 1400-3200 / PR+PH 12.719

TABLE 3.1 CONT. 'D

G-471

RELATIVE SATURATED HYDROCARBON DISTRIBUTION FOR SAMPLE RUBO, REPL. NO. 6

| NAME ---- | PERCENT COMPOSITION 1100-3200 | PERCENTAGE OF 1600-3200 | COMPONENT WEIGHT IN UG. |
|--------------|----------------------------------|----------------------------|----------------------------|
| 1100 | 0.0 | | 0.000 |
| 1150 | 0.0 | | 0.000 |
| 1200 | 10.2 | | 1102.182 10.150 |
| 1253 | 5.6 | | 606.877 5.589 |
| 1300 | 7.5 | | 813.393 7.491 |
| 1356 | 6.2 | | 671.538 6.189 |
| 1400 | 8.0 | | 872.852 8.038 |
| 1440 | 2.2 | | 238.253 2.194 |
| 1500 | 7.4 | | 801.125 7.378 |
| 1551 | 1.2 | | 129.847 1.196 |
| 1600 | 6.2 | 12.0 | 676.609 6.231 |
| 1620 | 1.3 | 2.5 | 141.756 1.305 |
| 1670 | 3.7 | 7.1 | 399.218 3.676 |
| 1700 | 5.7 | 11.0 | 620.273 5.712 |
| 1780 | 1.9 | 3.8 | 211.162 1.945 |
| 1800 | 5.0 | 9.7 | 546.918 5.037 |
| 1851 | 1.9 | 3.7 | 210.052 1.934 |
| 1900 | 4.2 | 8.1 | 453.838 4.179 |
| 2000 | 3.4 | 6.6 | 369.742 3.405 |
| 2100 | 2.8 | 5.4 | 302.266 2.789 |
| 2200 | 2.6 | 5.1 | 284.812 2.623 |
| 2300 | 2.4 | 4.6 | 255.882 2.356 |
| 2400 | 1.9 | 3.6 | 203.414 1.873 |
| 2500 | 1.5 | 3.0 | 168.224 1.549 |
| 2600 | 1.4 | 2.7 | 154.554 1.423 |
| 2700 | 1.2 | 2.2 | 125.056 1.152 |
| 2800 | 1.0 | 1.9 | 108.061 .995 |
| 2900 | 1.0 | 2.0 | 112.908 1.046 |
| 3000 | 1.0 | 1.9 | 104.348 .961 |
| 3100 | .8 | 1.6 | 88.482 .815 |
| 3200 | .8 | 1.5 | 85.189 .785 |

TABLE 3.1 CONT. 'D

G-472

TOTAL WEIGHT

10858.829

PR/PH 1.891

PR/1700 .644

PH/1800 .386

SUM OF THE N-ALKANES 1600-3200 / PP+PH 7.636

TABLE 3.1 CONT.'D

Extraction Experiment Summary:

B. Aromatic Hydrocarbon Distribution for All Samples

| Sequence | Sample Number | Treatment |
|----------|---------------|----------------------------------|
| 1 | RUBO-1 | 2216-O.D., 1.2-then add oil |
| 2 | RUBO-2 | 2216-O.D., 1.2-then add oil |
| 3 | RUBO-3 | 2216-O.D., 0.0-then add oil |
| 4 | RUBO-4 | 2216-O.D., 0.0-then add oil |
| 5 | RUBO-5 | 3.5% NaCl-O.D., 0.0-then add oil |
| 6 | RUBO-6 | 3.5% NaCl-O.D., 0.0-then add oil |

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 6.9 | 7.920 |
| 1870 | 14.4 | 16.406 |
| 1910 | 9.4 | 10.757 |
| 1980 | 8.2 | 9.368 |
| 2020 | 20.8 | 23.781 |
| 2060 | 5.6 | 6.352 |
| 2080 | 2.9 | 3.323 |
| 2110 | 1.5 | 1.765 |
| 2130 | 6.6 | 7.527 |
| 2170 | 6.6 | 7.542 |
| 2210 | 4.3 | 4.960 |
| 2220 | .7 | .801 |
| 2240 | 2.0 | 2.278 |
| 2290 | .8 | .905 |
| 2310 | 1.1 | 1.204 |
| 2430 | 3.9 | 4.493 |
| 2520 | 4.2 | 4.773 |
| TOTAL WEIGHT | | 114.154 |

TABLE 3.1 CONT. 'D

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBO, REPL NO. 2

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 9.6 | 21.081 |
| 1870 | 15.2 | 33.345 |
| 1910 | 8.8 | 19.327 |
| 1980 | 7.3 | 16.073 |
| 2020 | 18.7 | 40.946 |
| 2060 | 5.2 | 11.398 |
| 2080 | 2.4 | 5.215 |
| 2110 | 1.6 | 3.524 |
| 2130 | 6.2 | 13.676 |
| 2170 | 6.3 | 13.708 |
| 2210 | 3.7 | 8.123 |
| 2220 | .8 | 1.713 |
| 2240 | 2.0 | 4.375 |
| 2290 | .9 | 2.031 |
| 2310 | 2.8 | 6.115 |
| 2430 | 4.5 | 9.761 |
| 2520 | 4.0 | 8.741 |

TABLE 3.1 CONT. 'D

G-476

TOTAL WEIGHT

219.153

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 3.1 | 2.547 |
| 1870 | 12.0 | 9.933 |
| 1910 | 7.6 | 6.274 |
| 1980 | 8.3 | 6.840 |
| 2020 | 21.3 | 17.626 |
| 2060 | 5.8 | 4.780 |
| 2080 | 3.1 | 2.591 |
| 2110 | 1.7 | 1.428 |
| 2130 | 7.6 | 6.305 |
| 2170 | 7.7 | 6.354 |
| 2210 | 5.0 | 4.150 |
| 2220 | 1.1 | .894 |
| 2240 | 3.0 | 2.474 |
| 2290 | .9 | .756 |
| 2310 | 1.3 | 1.112 |
| 2430 | 5.2 | 4.325 |
| 2520 | 5.3 | 4.399 |
| TOTAL WEIGHT | | 82.788 |

TABLE 3.1 CONT. 'D

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 3.5 | 3.408 |
| 1870 | 11.9 | 11.438 |
| 1910 | 8.6 | 8.292 |
| 1980 | 8.5 | 8.198 |
| 2020 | 22.3 | 21.460 |
| 2060 | 5.9 | 5.725 |
| 2080 | 3.3 | 3.206 |
| 2110 | 1.6 | 1.590 |
| 2130 | 7.3 | 7.077 |
| 2170 | 7.6 | 7.344 |
| 2210 | 5.1 | 4.946 |
| 2220 | .8 | .743 |
| 2240 | 2.2 | 2.151 |
| 2290 | 1.0 | .923 |
| 2310 | 1.2 | 1.132 |
| 2430 | 4.4 | 4.231 |
| 2520 | 4.7 | 4.505 |
| TOTAL WEIGHT | | 96.368 |

TABLE 3.1 CONT. 'D

G-478

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBO, REPL NO. 5

| NAME | PERCENT COMPOSITION | COMPONENT WEIGHT IN UG. |
|--------------|---------------------|-------------------------|
| 1750 | 7.0 | 10.983 |
| 1870 | 13.6 | 21.332 |
| 1910 | 9.0 | 14.132 |
| 1980 | 8.6 | 13.535 |
| 2020 | 20.4 | 31.900 |
| 2060 | 4.4 | 6.915 |
| 2080 | 1.8 | 2.862 |
| 2110 | 3.6 | 5.629 |
| 2130 | 11.1 | 17.424 |
| 2170 | 6.1 | 9.598 |
| 2210 | 4.0 | 6.328 |
| 2220 | .7 | 1.044 |
| 2240 | 2.0 | 3.087 |
| 2290 | .4 | .599 |
| 2310 | .9 | 1.413 |
| 2430 | 3.5 | 5.456 |
| 2520 | 2.8 | 4.436 |
| TOTAL WEIGHT | | 156.674 |

TABLE 3.1 CONT. 'D

G-479

RELATIVE AROMATIC HYDROCARBON DISTRIBUTION FOR SAMPLE RUBO, REPL NO. 6

NAME PERCENT COMPOSITION COMPONENT WEIGHT IN UG.

| | | |
|------|------|--------|
| 1750 | 0.0 | 0.000 |
| 1870 | 12.4 | 15.379 |
| 1910 | 8.0 | 9.965 |
| 1980 | 11.3 | 13.975 |
| 2020 | 24.9 | 30.857 |
| 2060 | 5.3 | 6.538 |
| 2080 | 2.5 | 3.042 |
| 2110 | .8 | 1.010 |
| 2130 | 7.6 | 9.365 |
| 2170 | 8.0 | 9.929 |
| 2210 | 5.2 | 6.397 |
| 2220 | .9 | 1.119 |
| 2240 | 2.4 | 2.959 |
| 2290 | .4 | .556 |
| 2310 | 1.3 | 1.573 |
| 2430 | 4.4 | 5.489 |
| 2520 | 4.6 | 5.718 |

TABLE 3.1 CONT.'D

TOTAL WEIGHT

123.870

FIGURE 1

GAS CHROMATOGRAPHS AND ODD-EVEN PREFERENCE
CURVES FOR WINTER, MARCH AND APRIL SAMPLES

Explanation of Figure:

- 1.a - Winter Samples (Cruise 1)
- 1.b - March Samples (Cruise 2)
- 1.c - April Samples (Cruise 3)

Sample Numbers:

First Digit - Cruise No.
Second Digit - Station No. (on Transect II)
Third Digit - Replicate No.
Remaining Digits - Date

Example: 111217 = Cruise 1; (winter)
Station 1, Transect II
Replicate 1
February 17

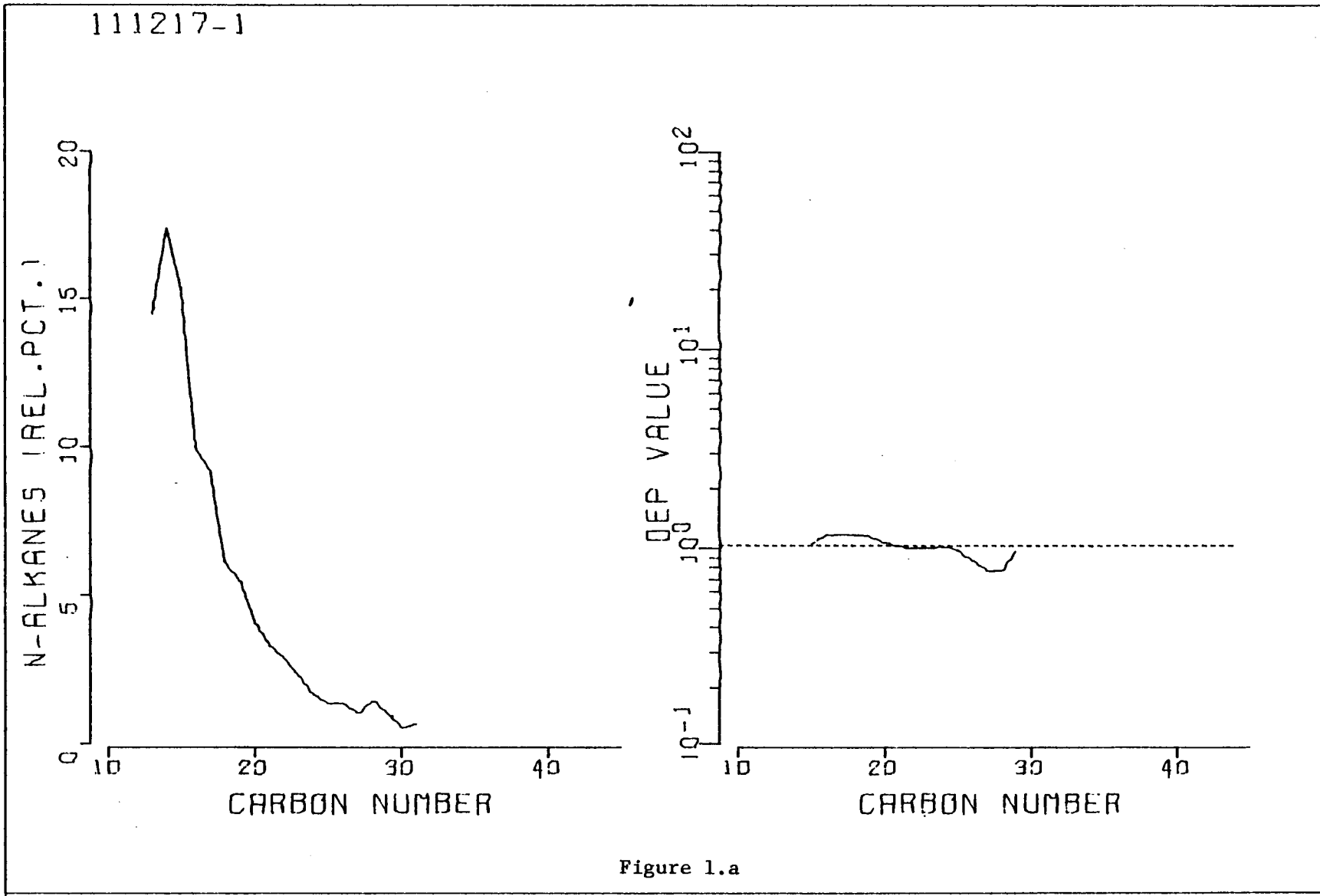


Figure 1.a

111328-1

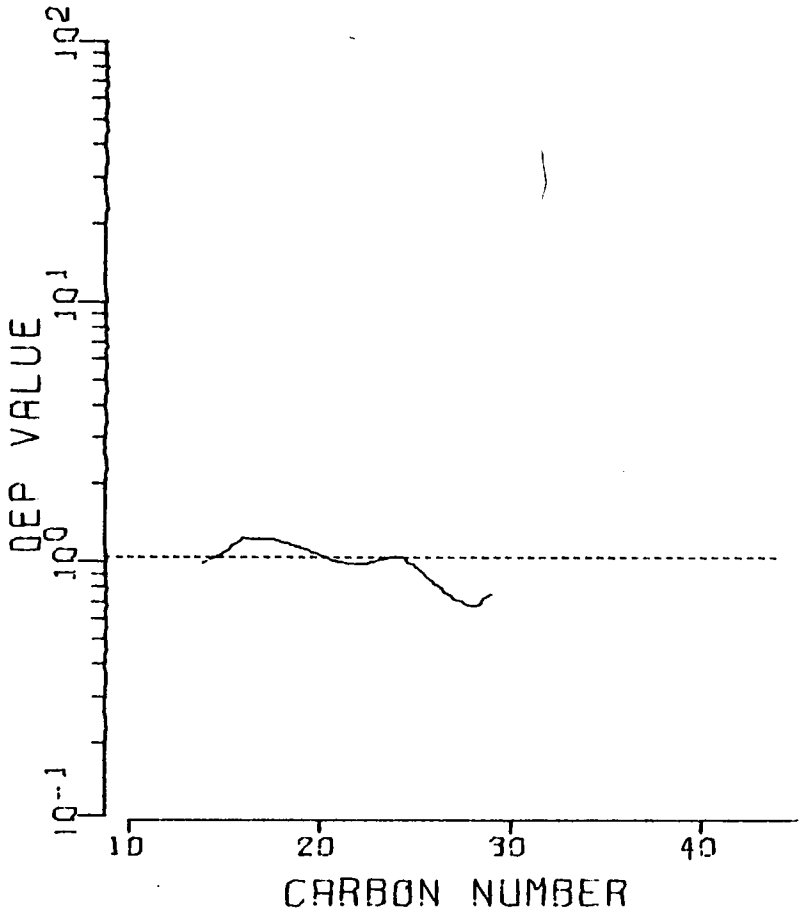
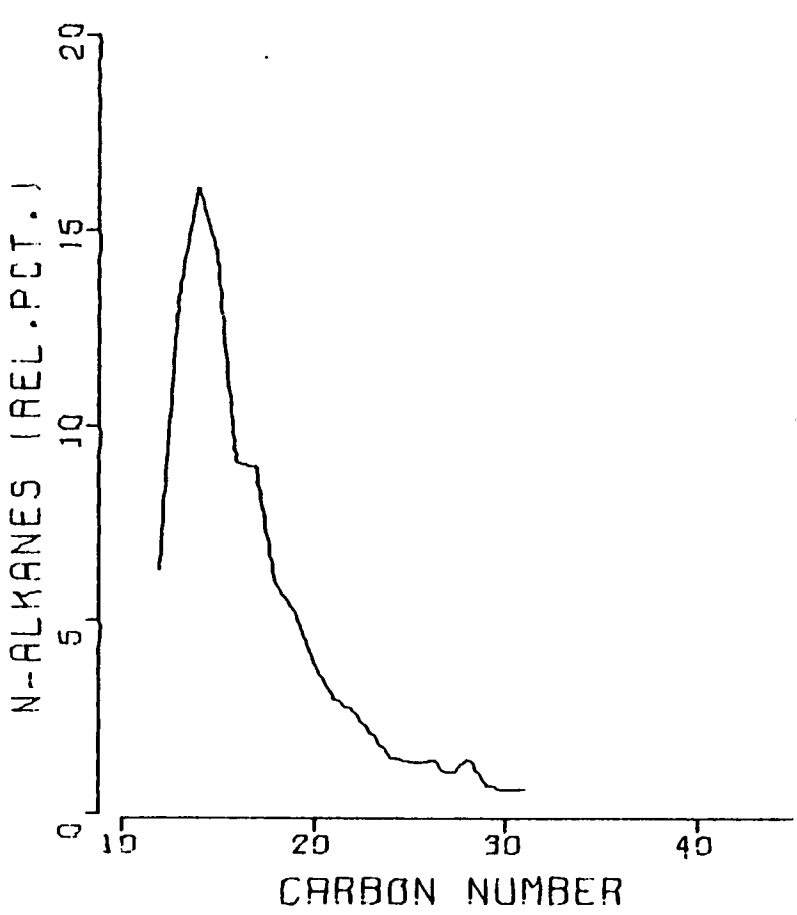
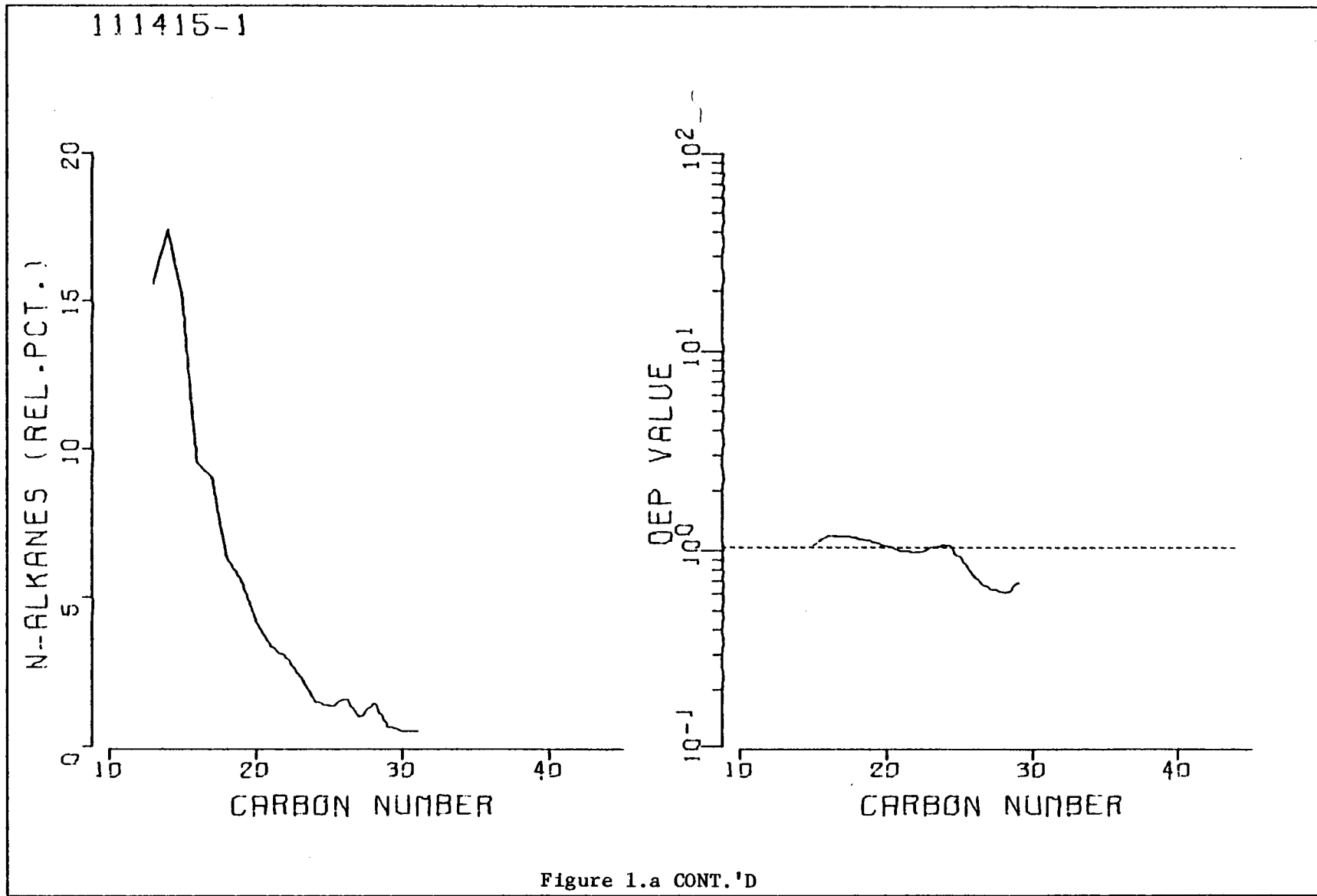


Figure 1.a CONT.'D



111507-1

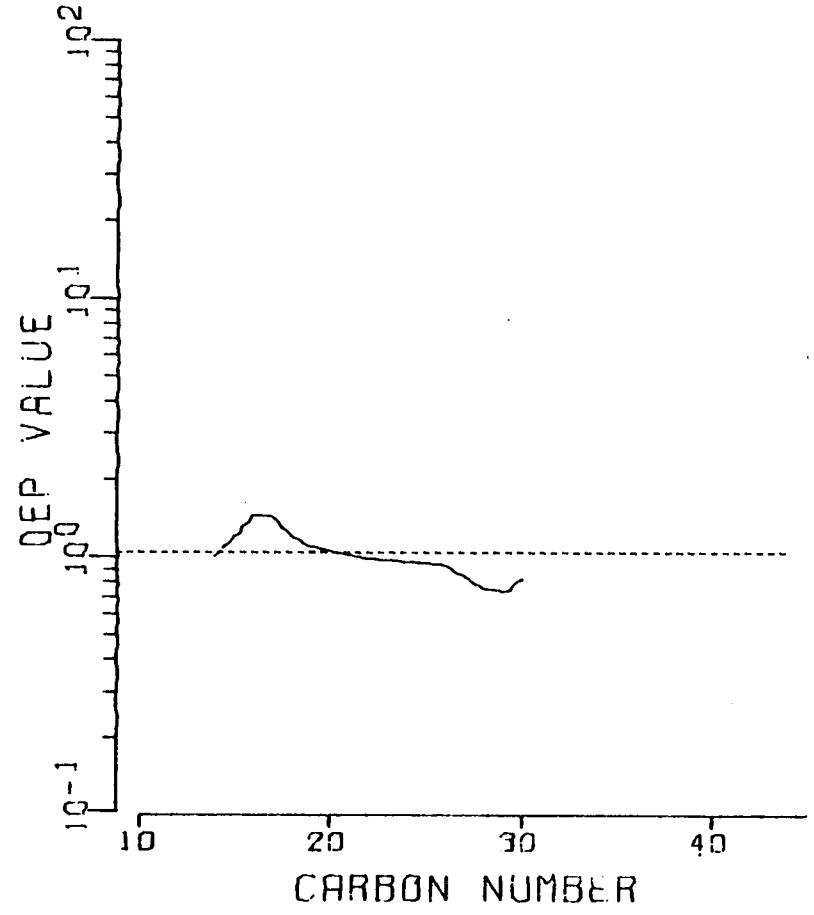
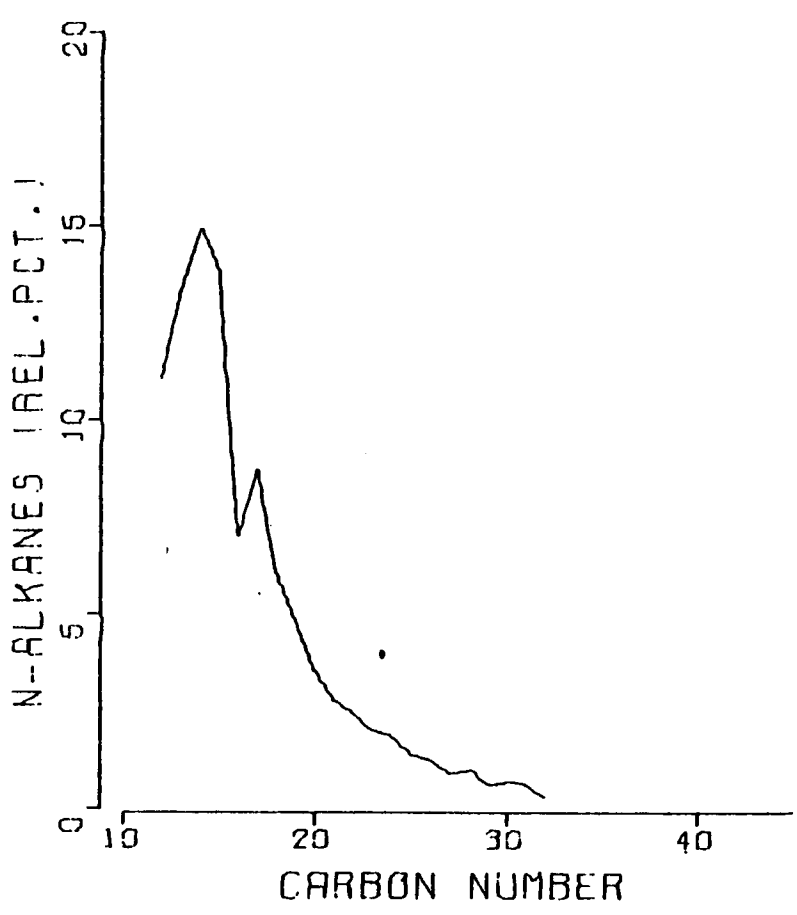


Figure 1.a CONT.'D

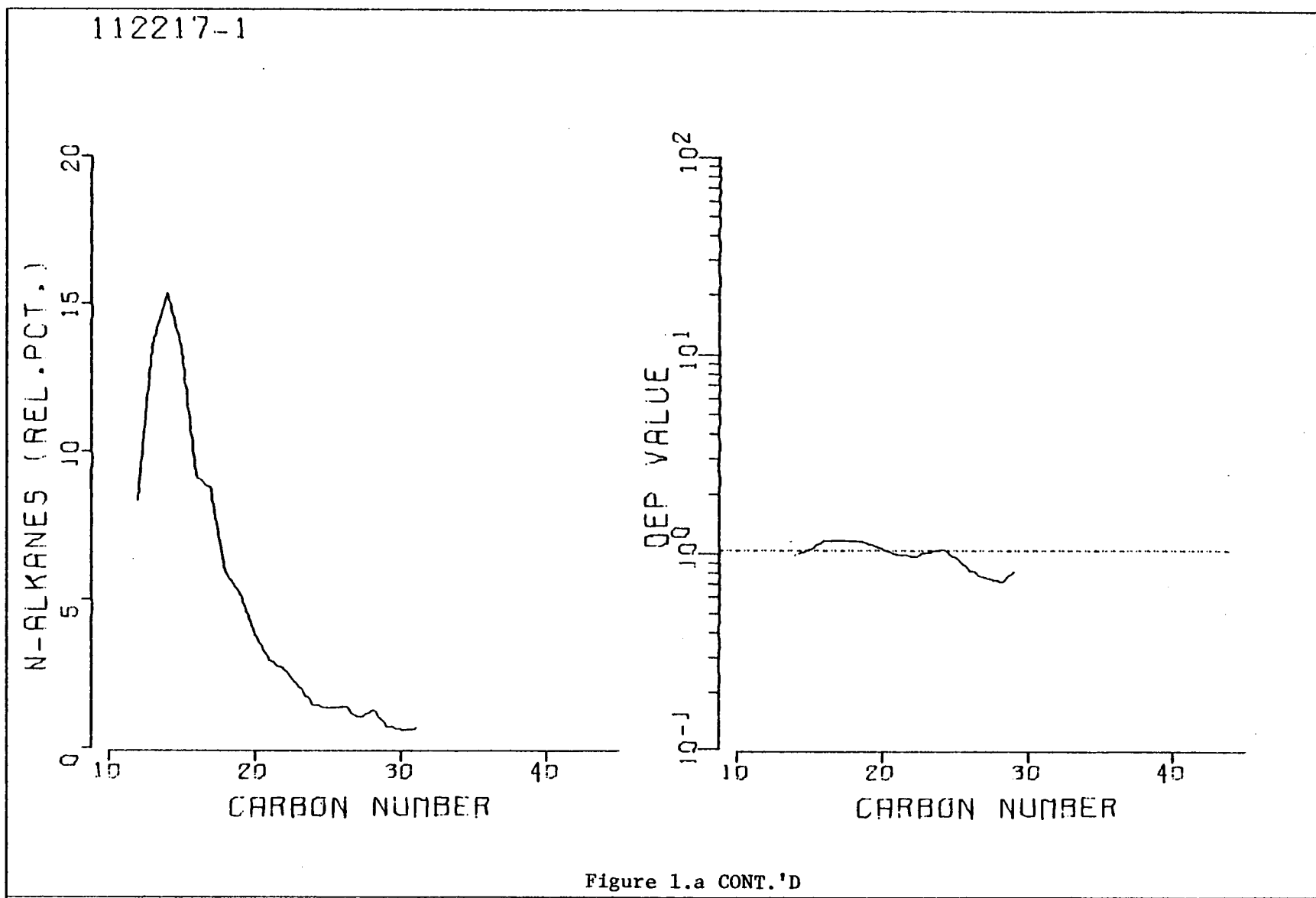


Figure 1.a CONT.'D

112328-1

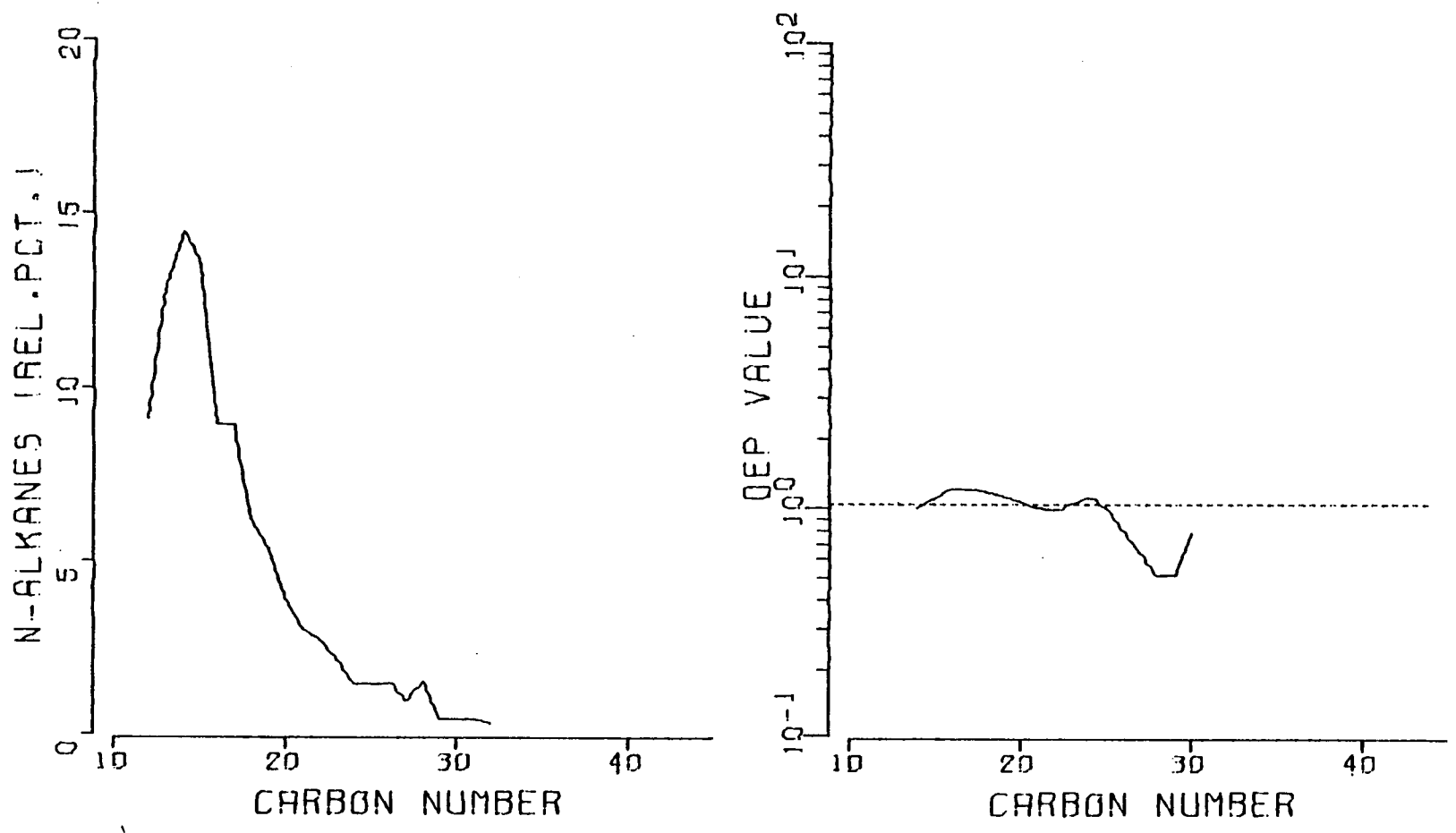


Figure 1.a CONT. 'D

112415-1

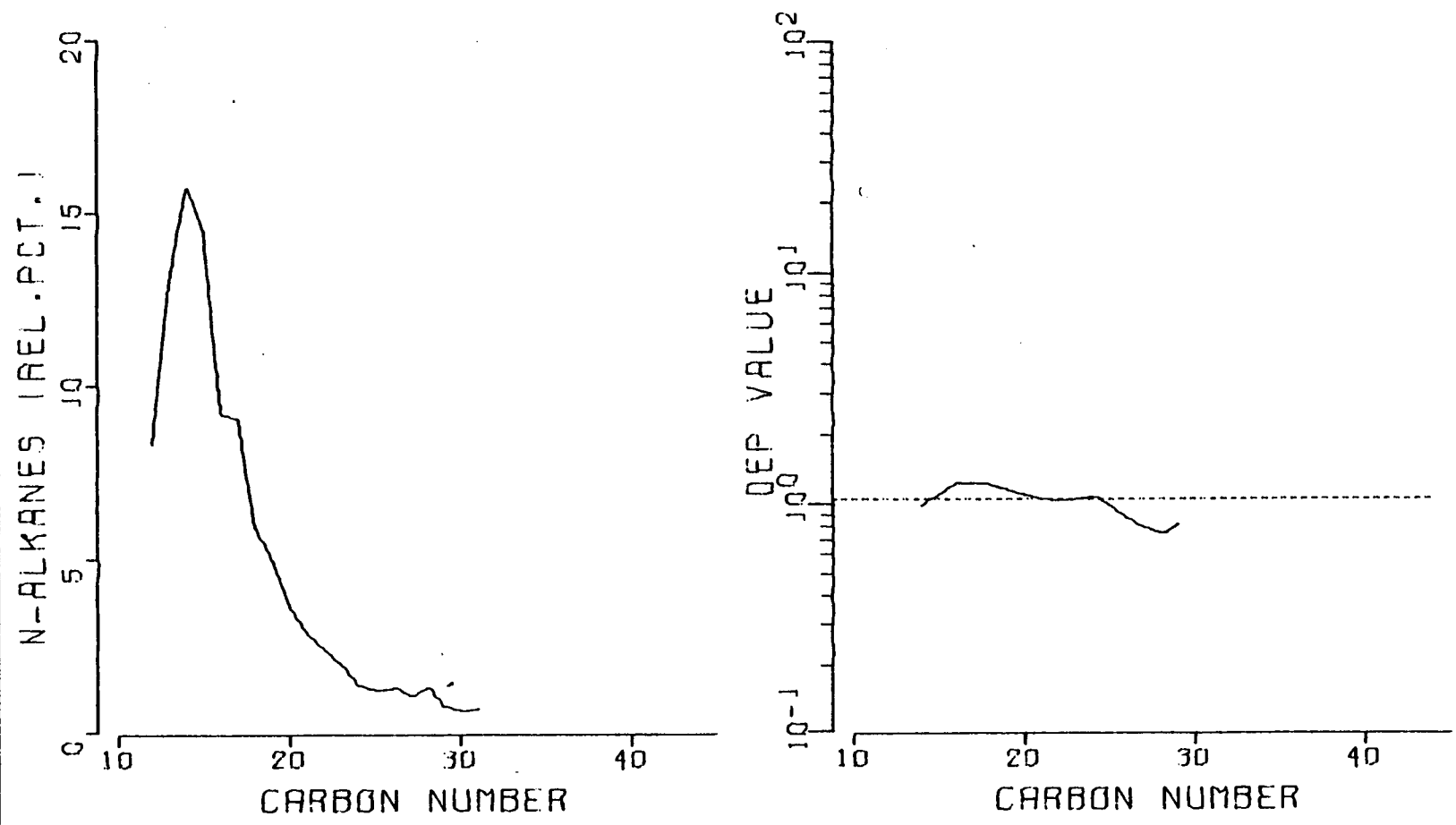


Figure 1.a CONT.'D

112507-1

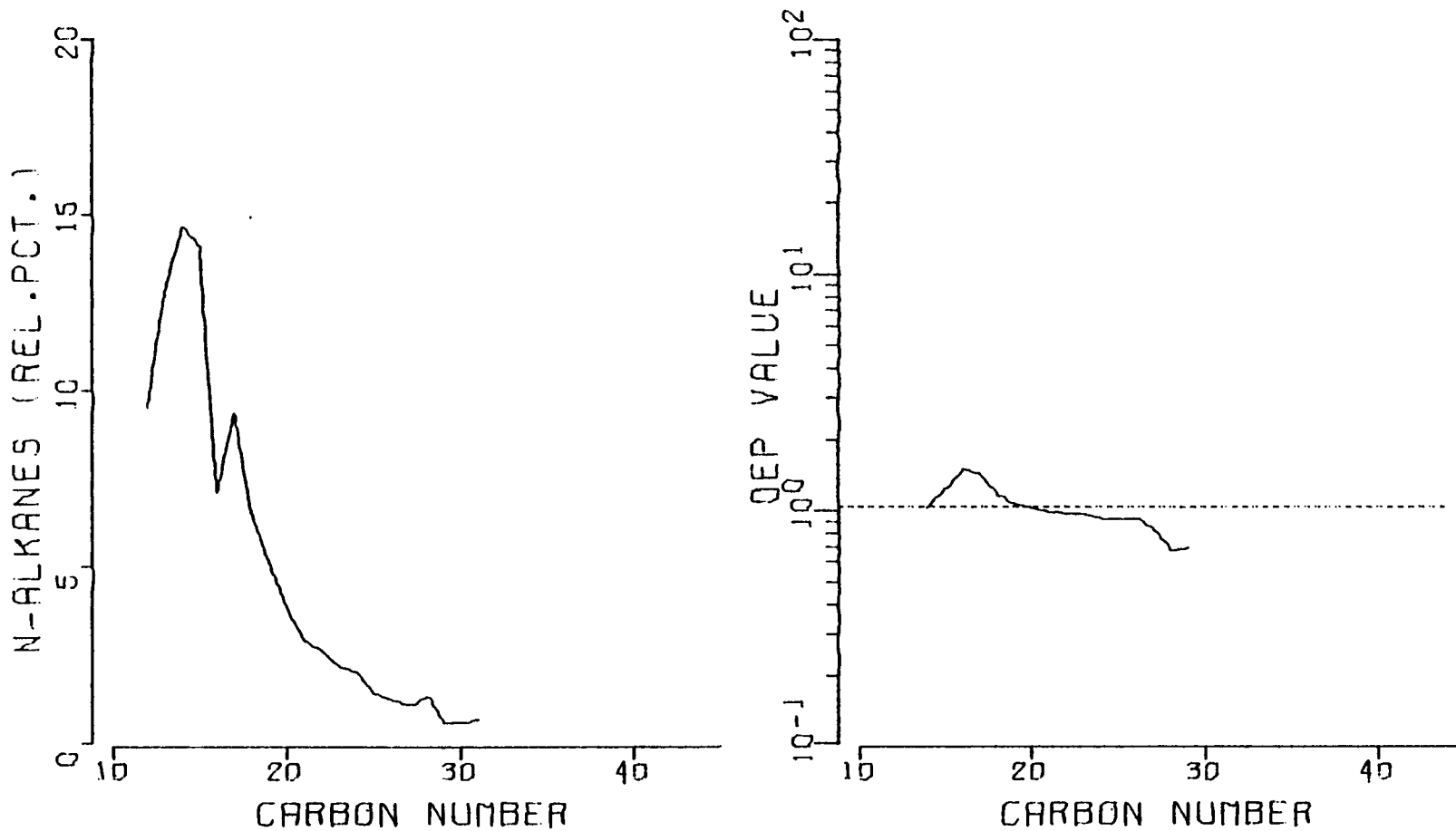


Figure 1.a CONT.'D

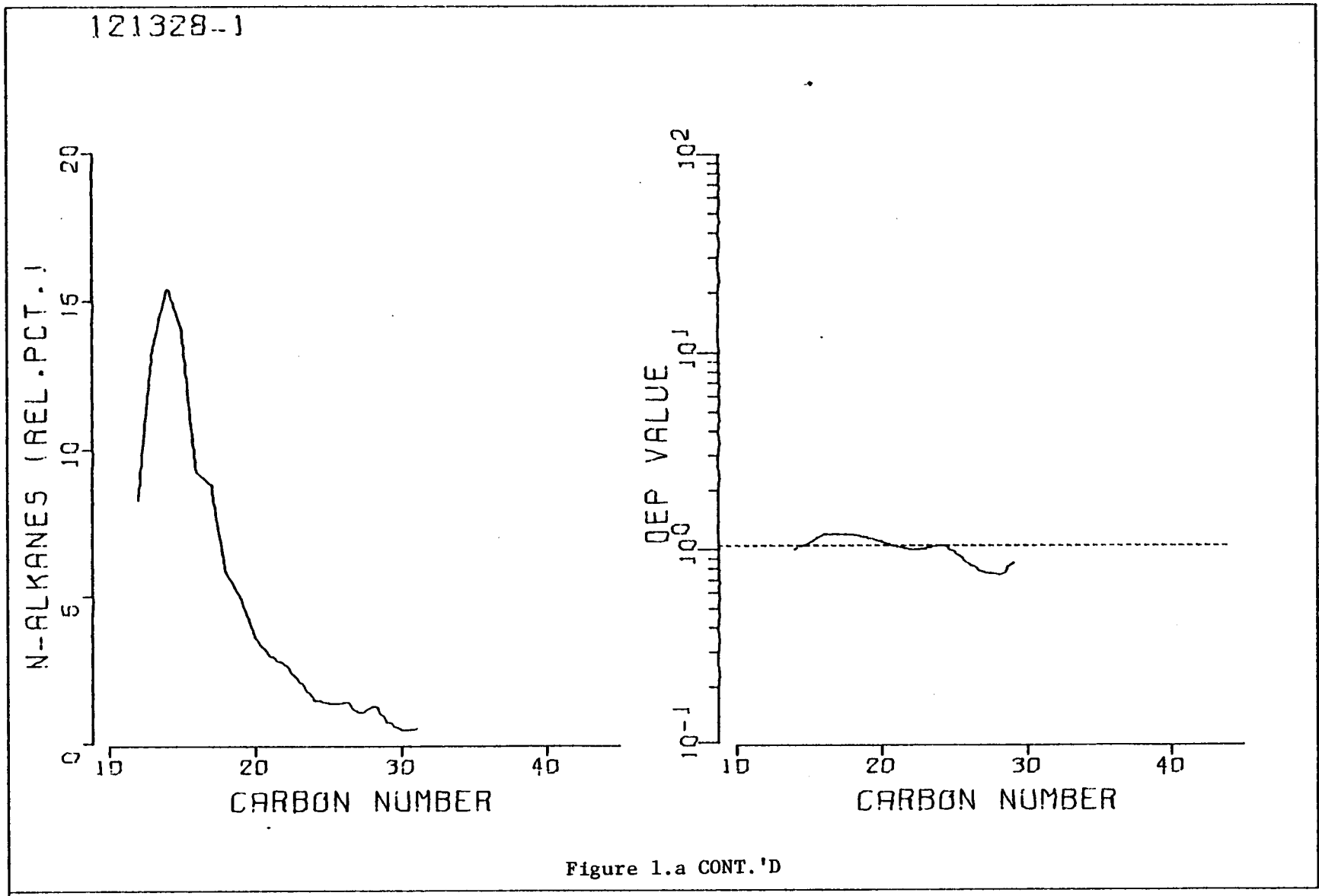


Figure 1.a CONT.'D

121415-1

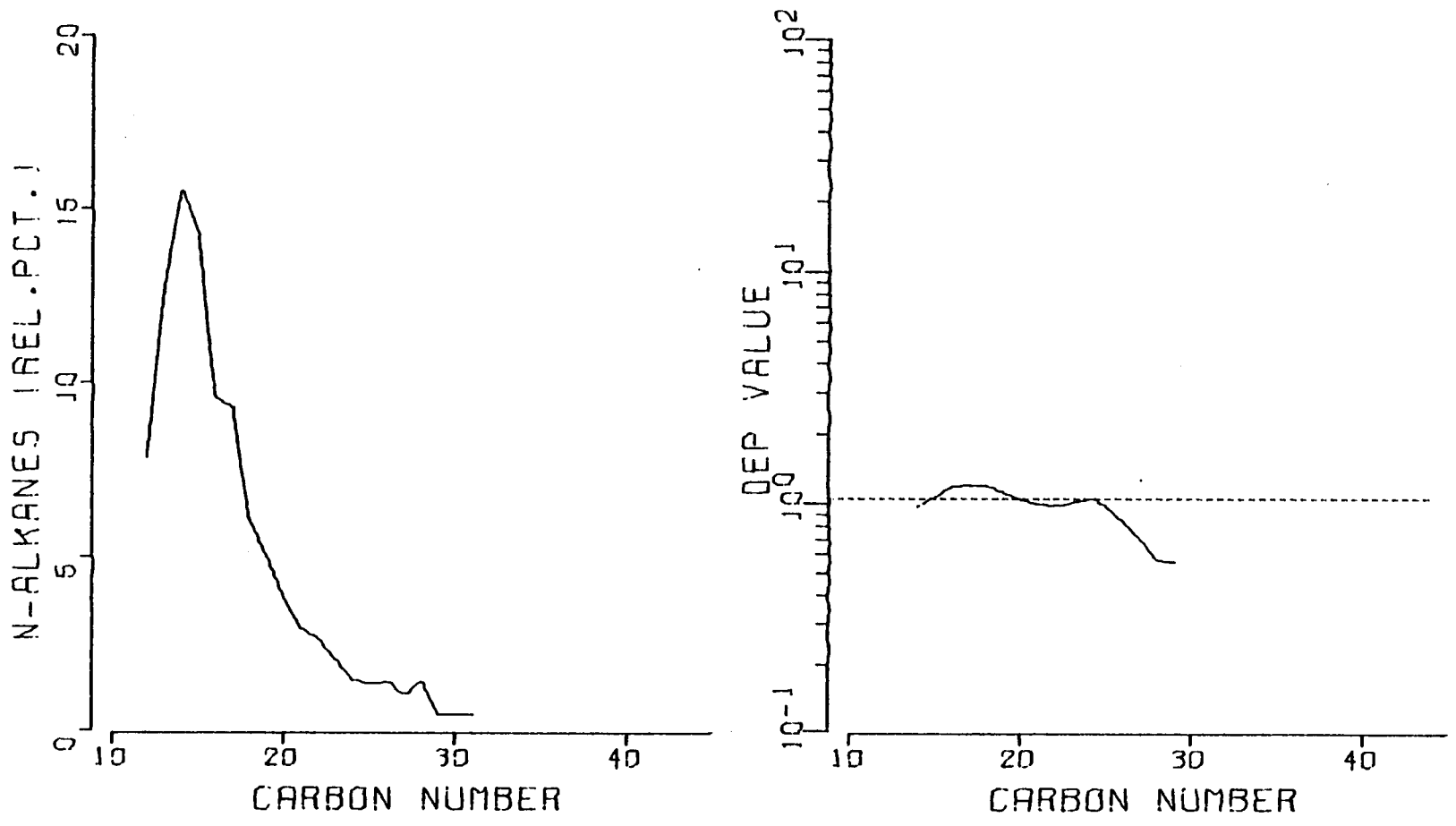
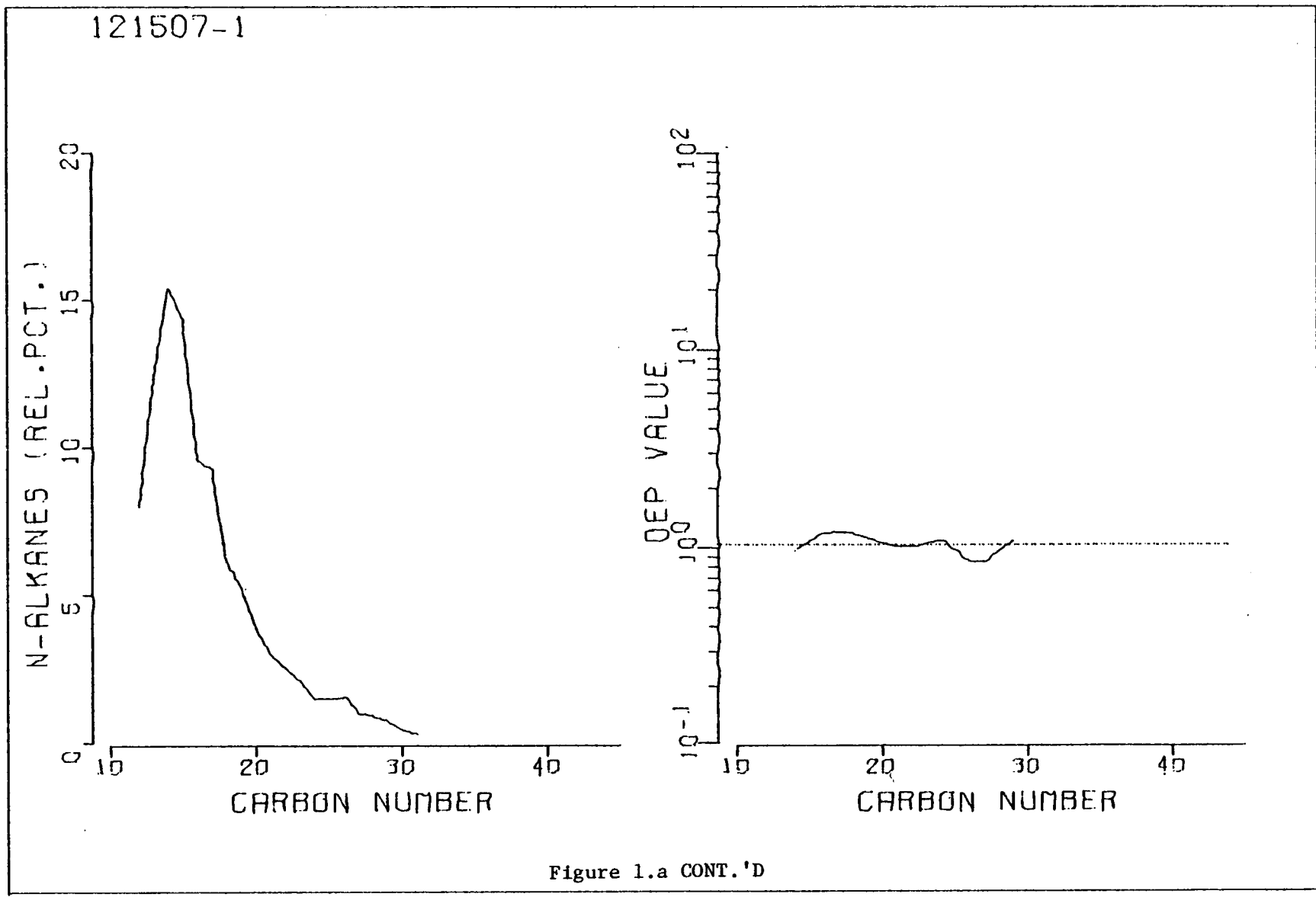


Figure 1.a CONT.'D



122328-1

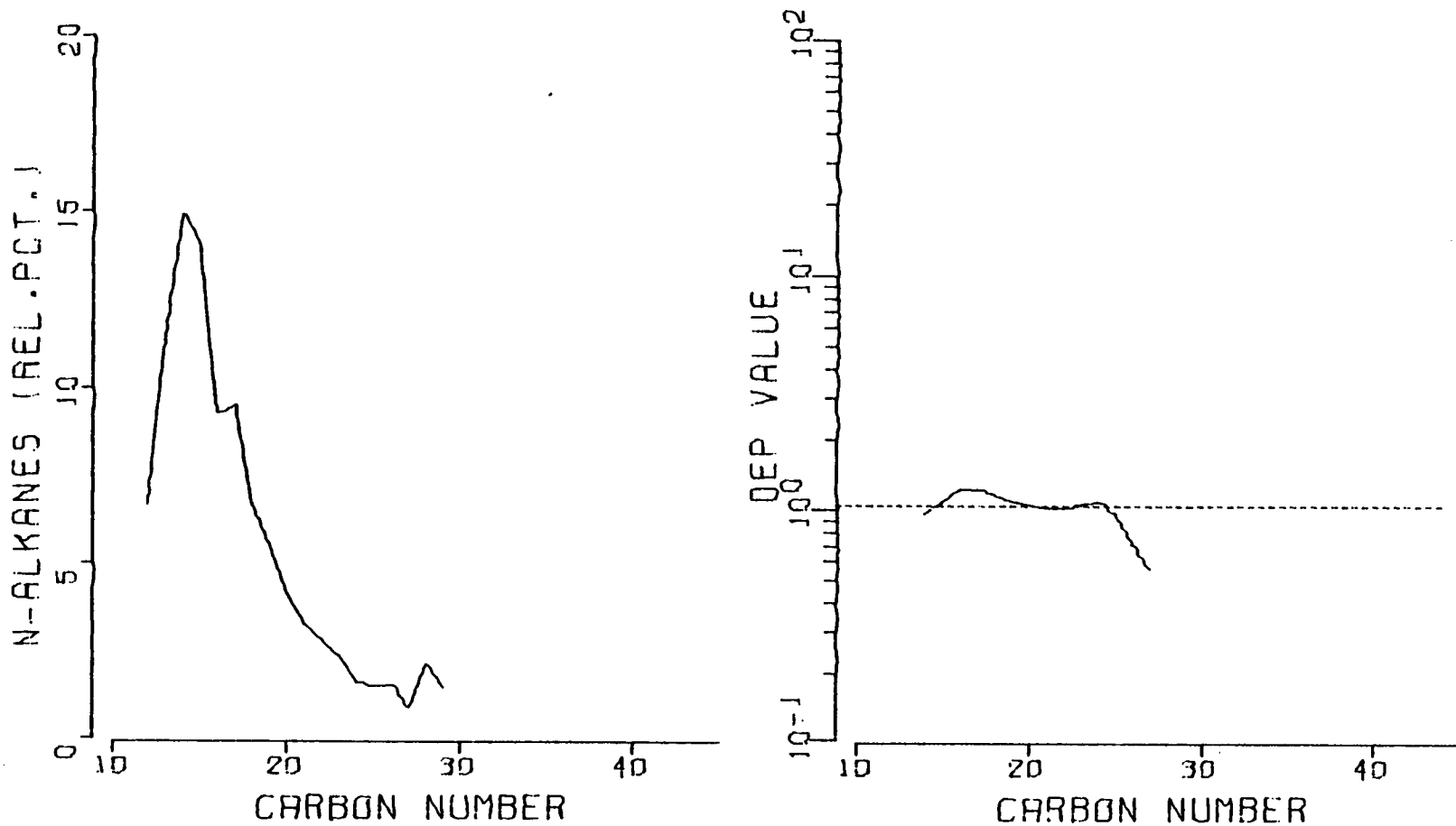
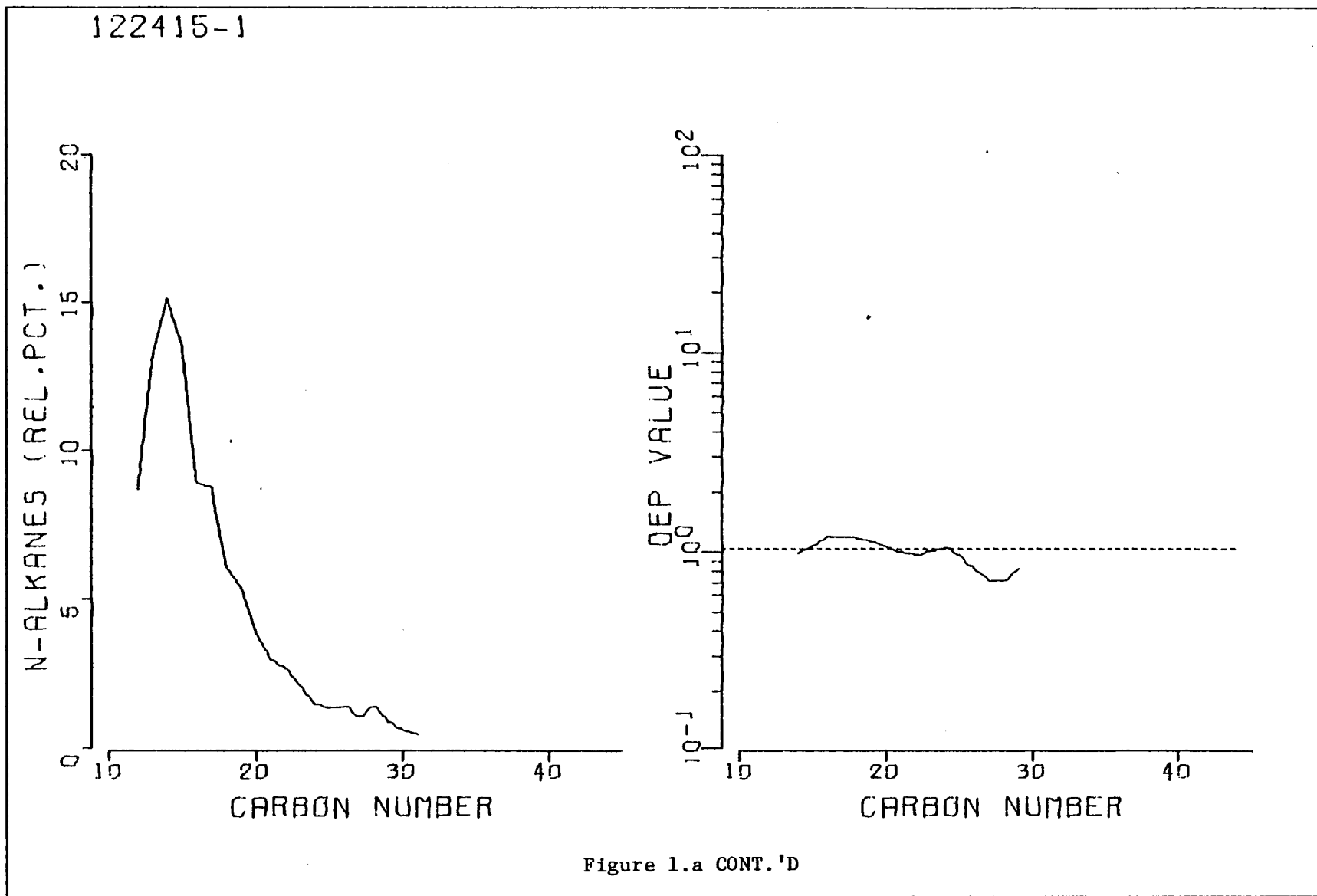


Figure 1.a CONT.'D



122507-1

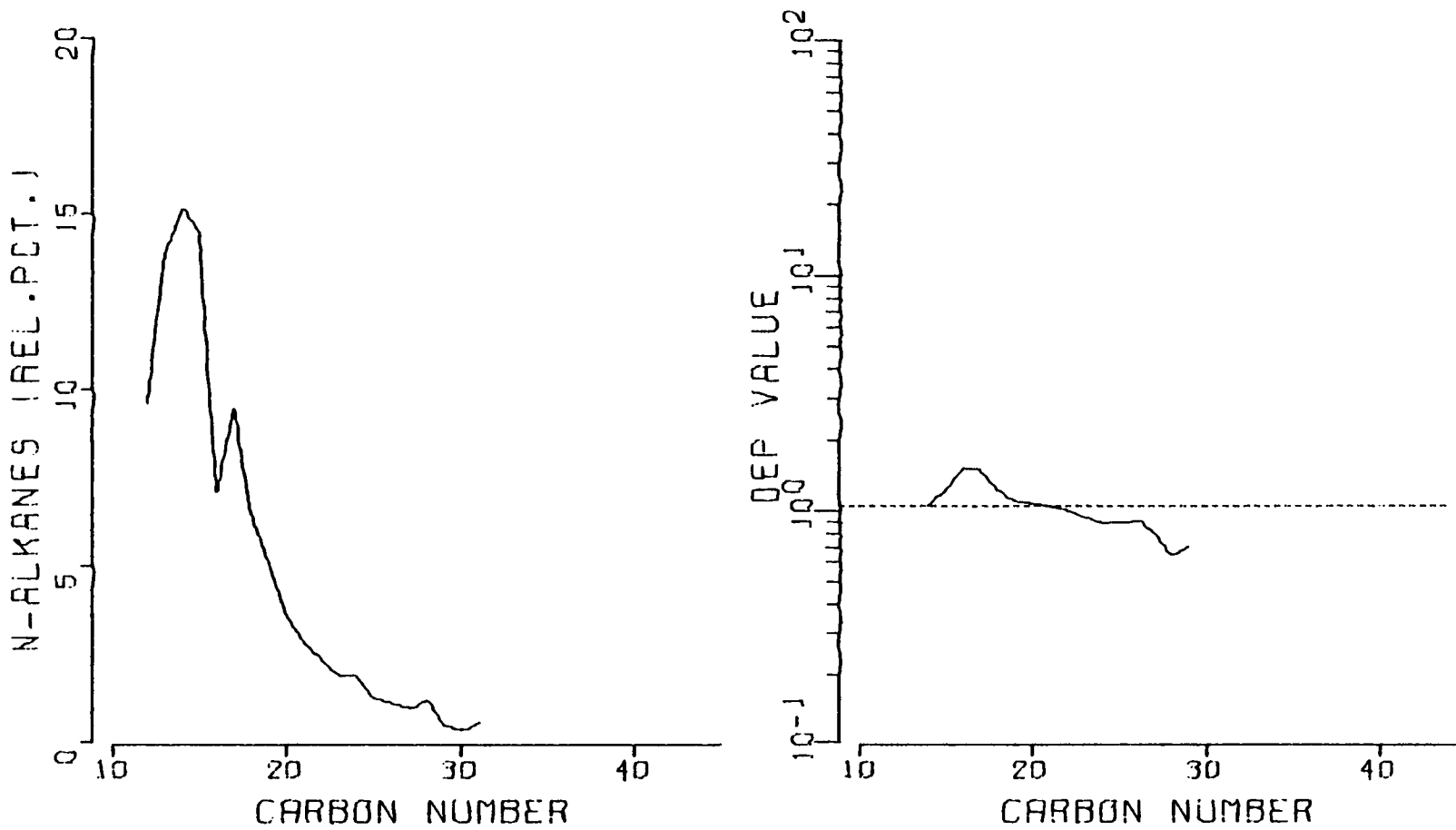


Figure 1.a CONT.'D

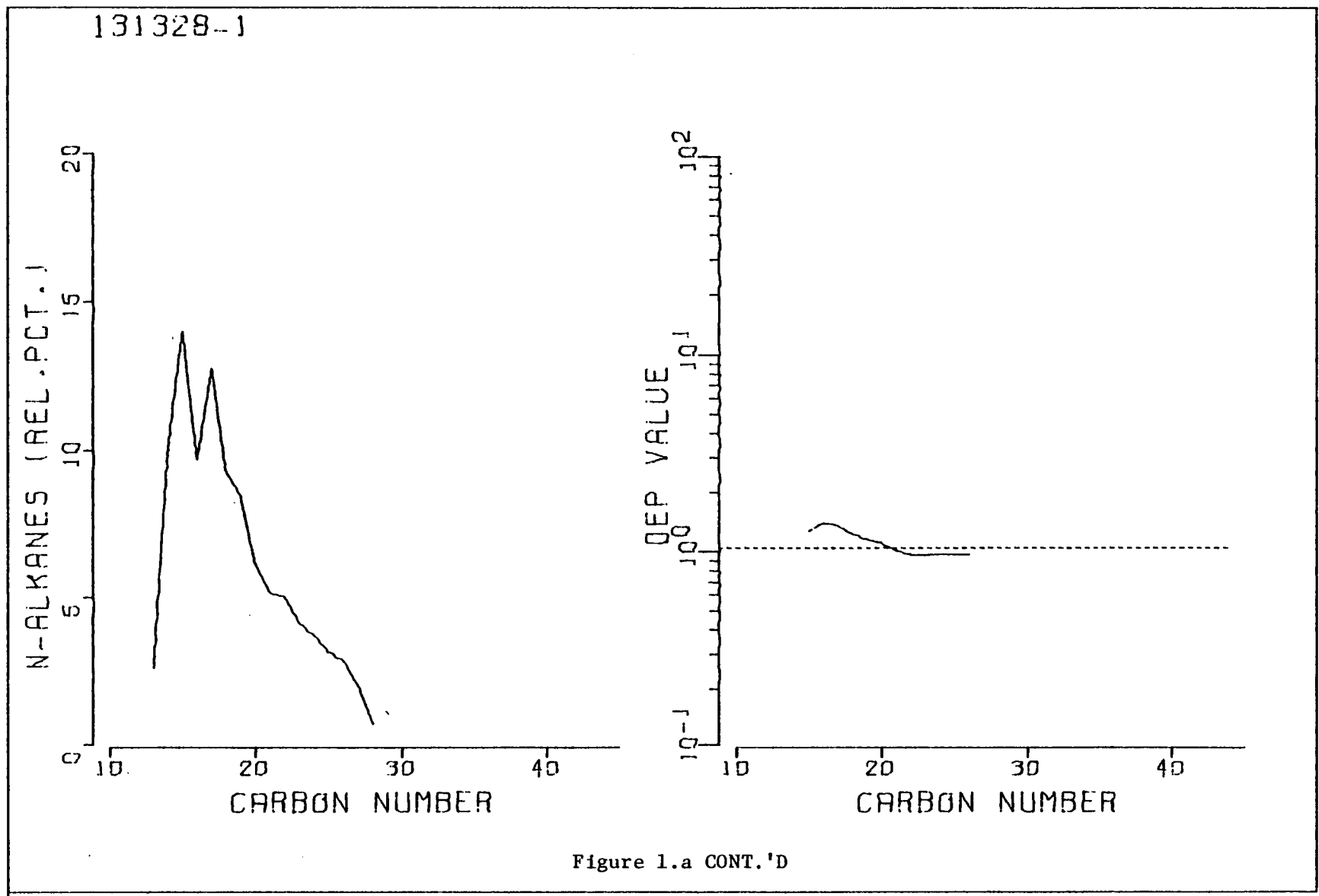


Figure 1.a CONT.'D

131415-1

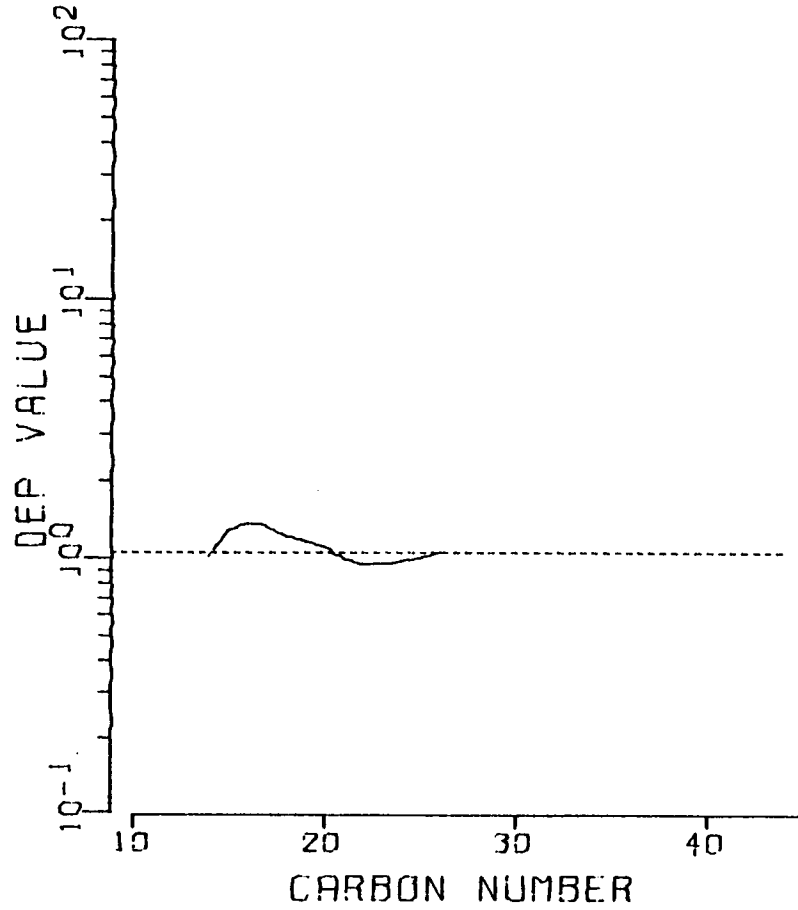
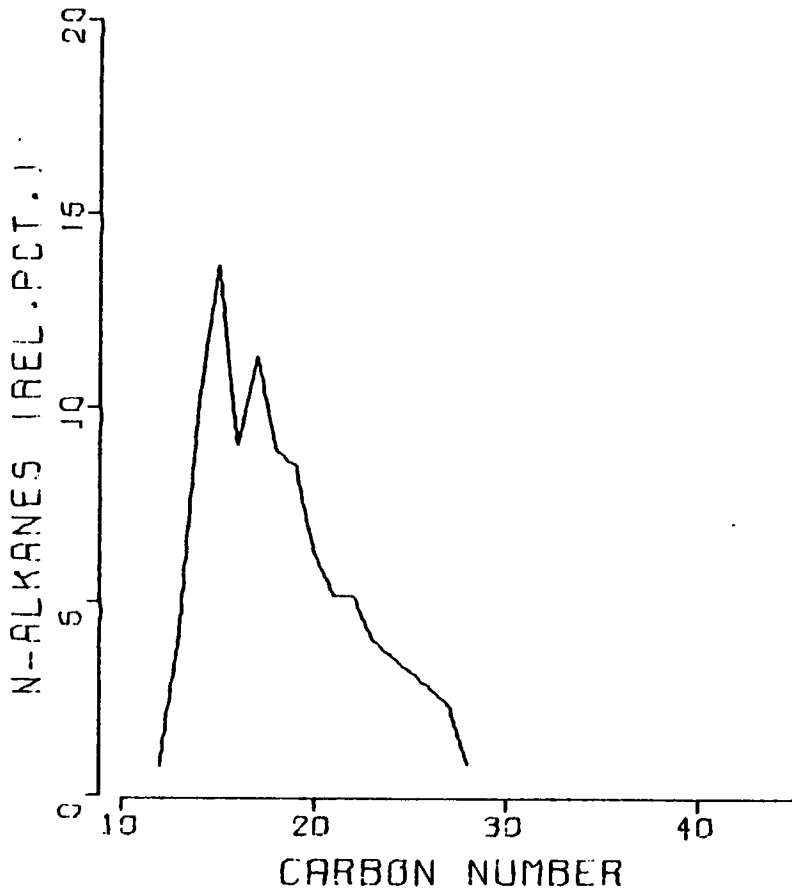


Figure 1.a CONT.'D

131507-1

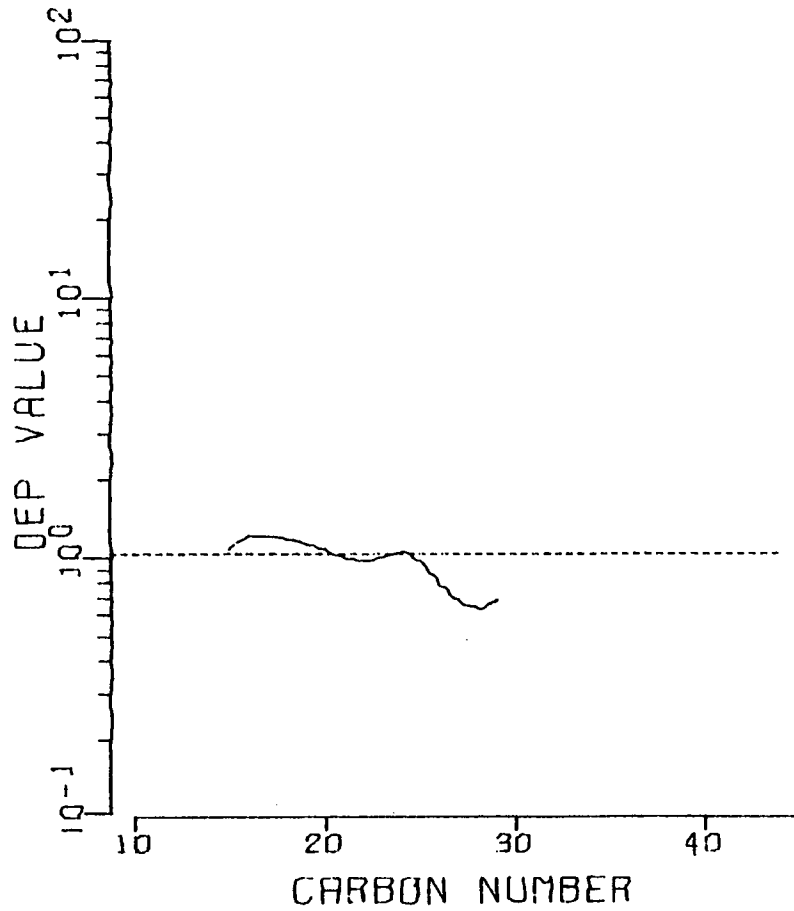
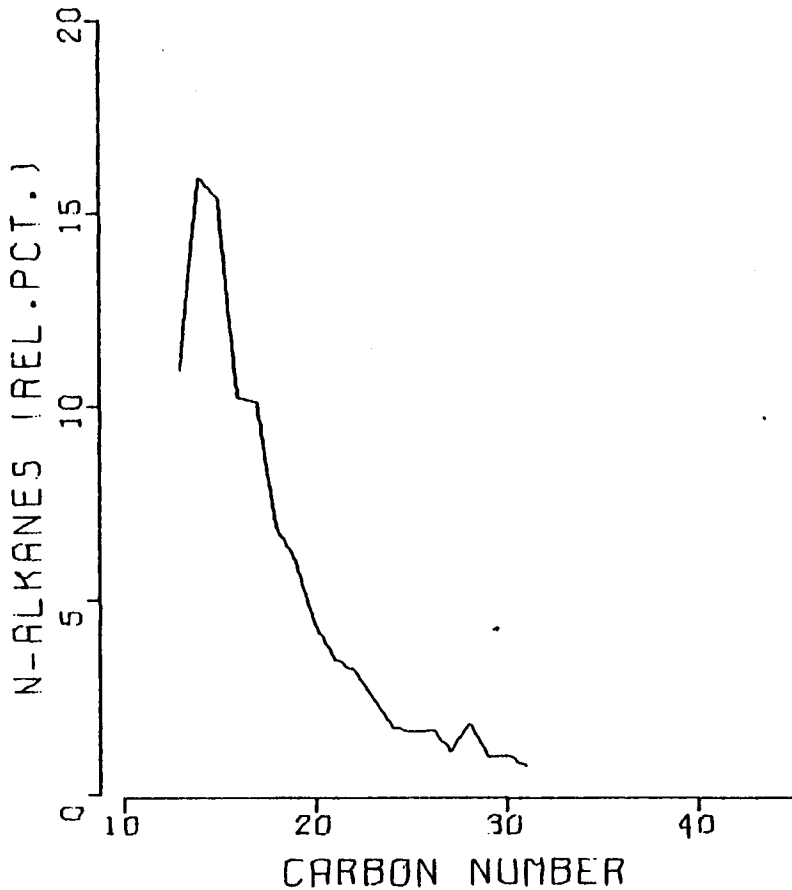


Figure 1.a CONT.'D

132328-1

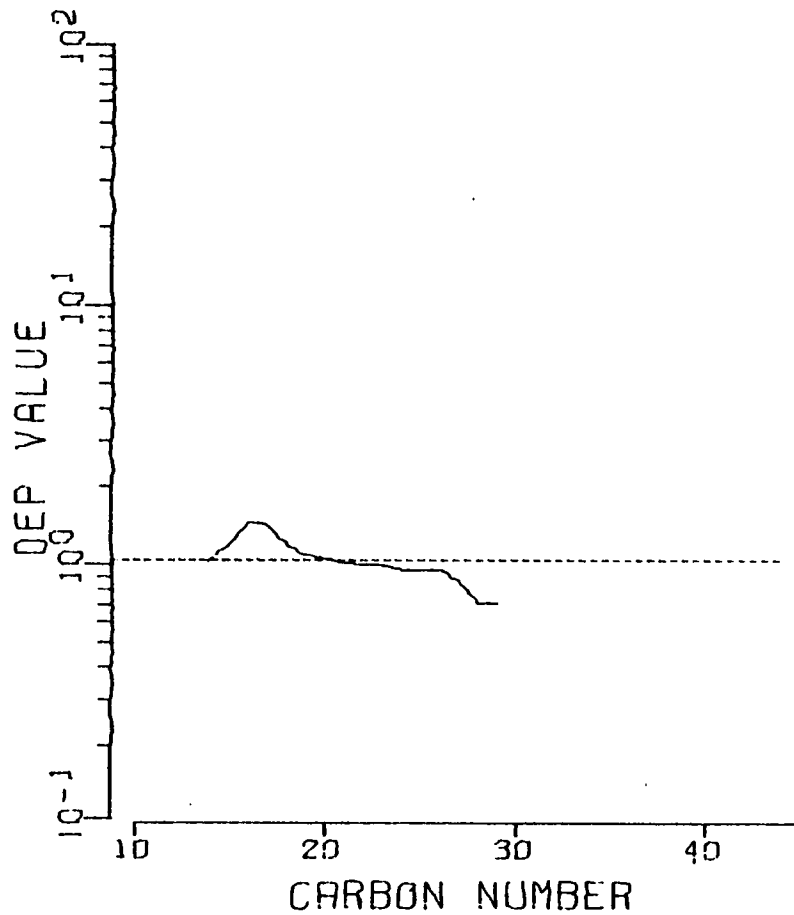
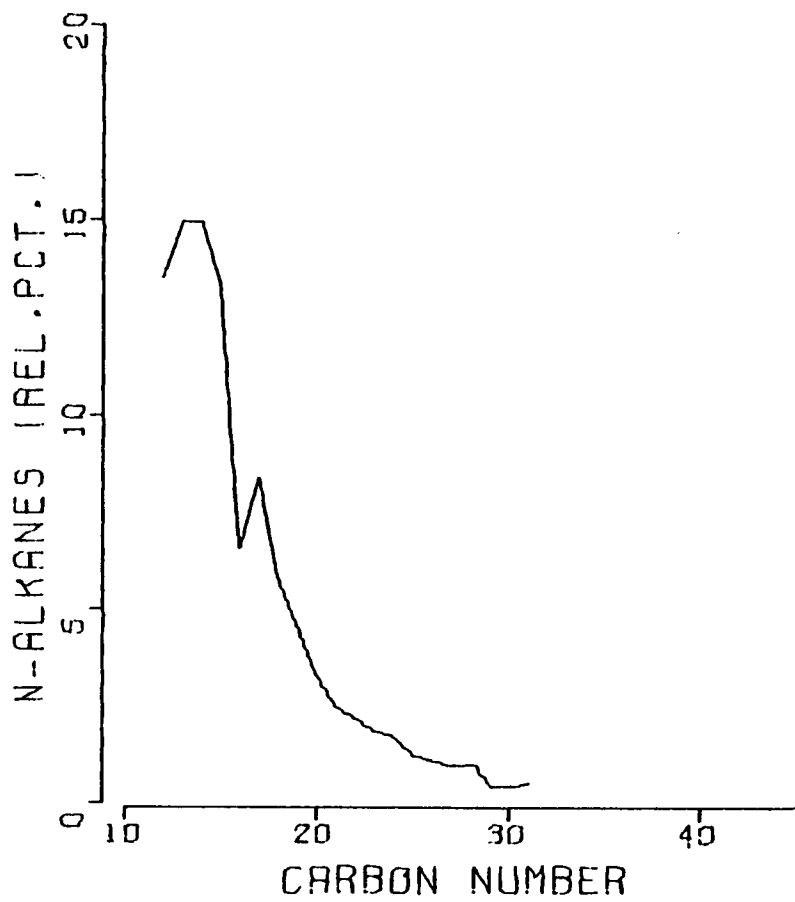


Figure 1.a CONT.'D

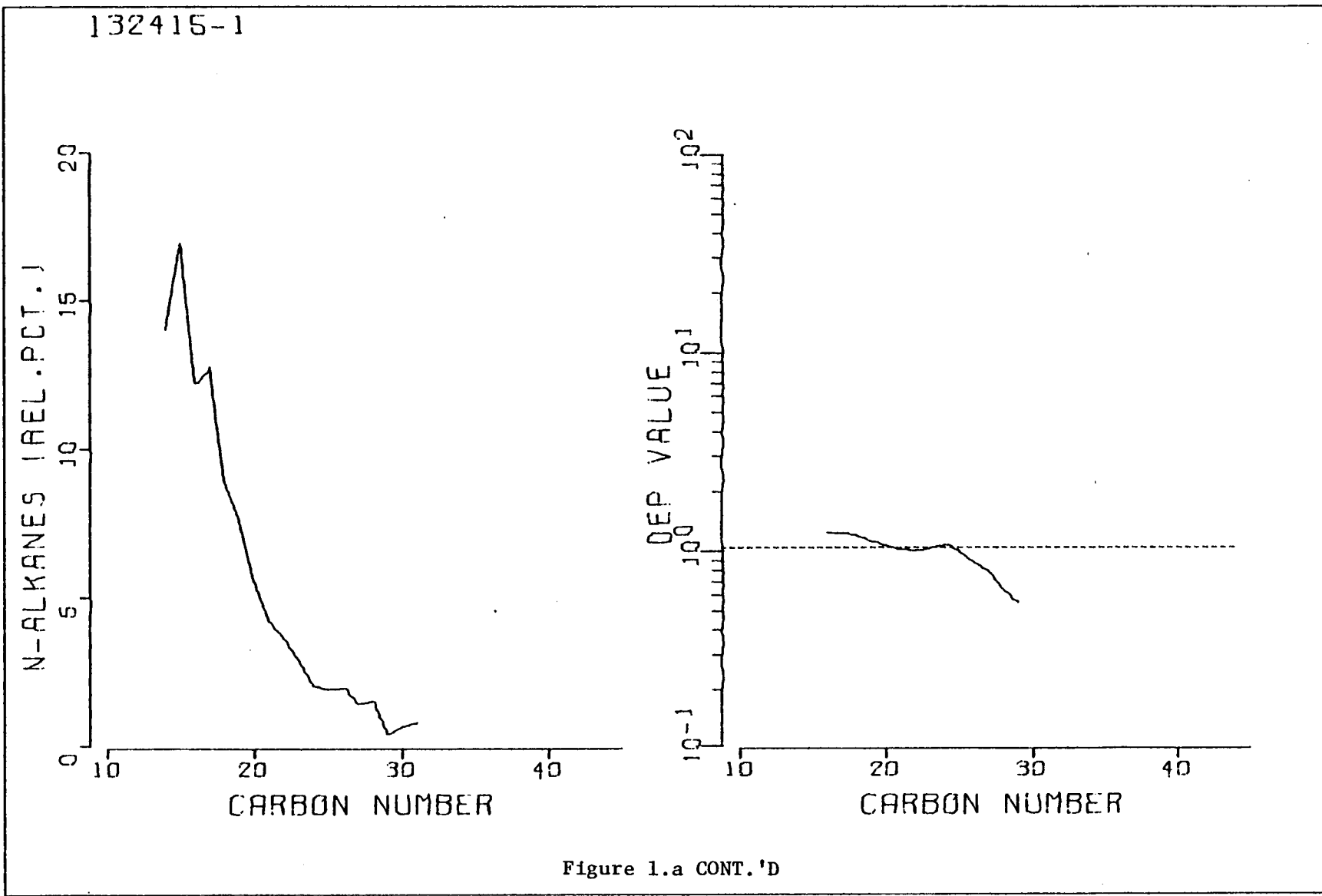


Figure 1.a CONT.'D

132507-1

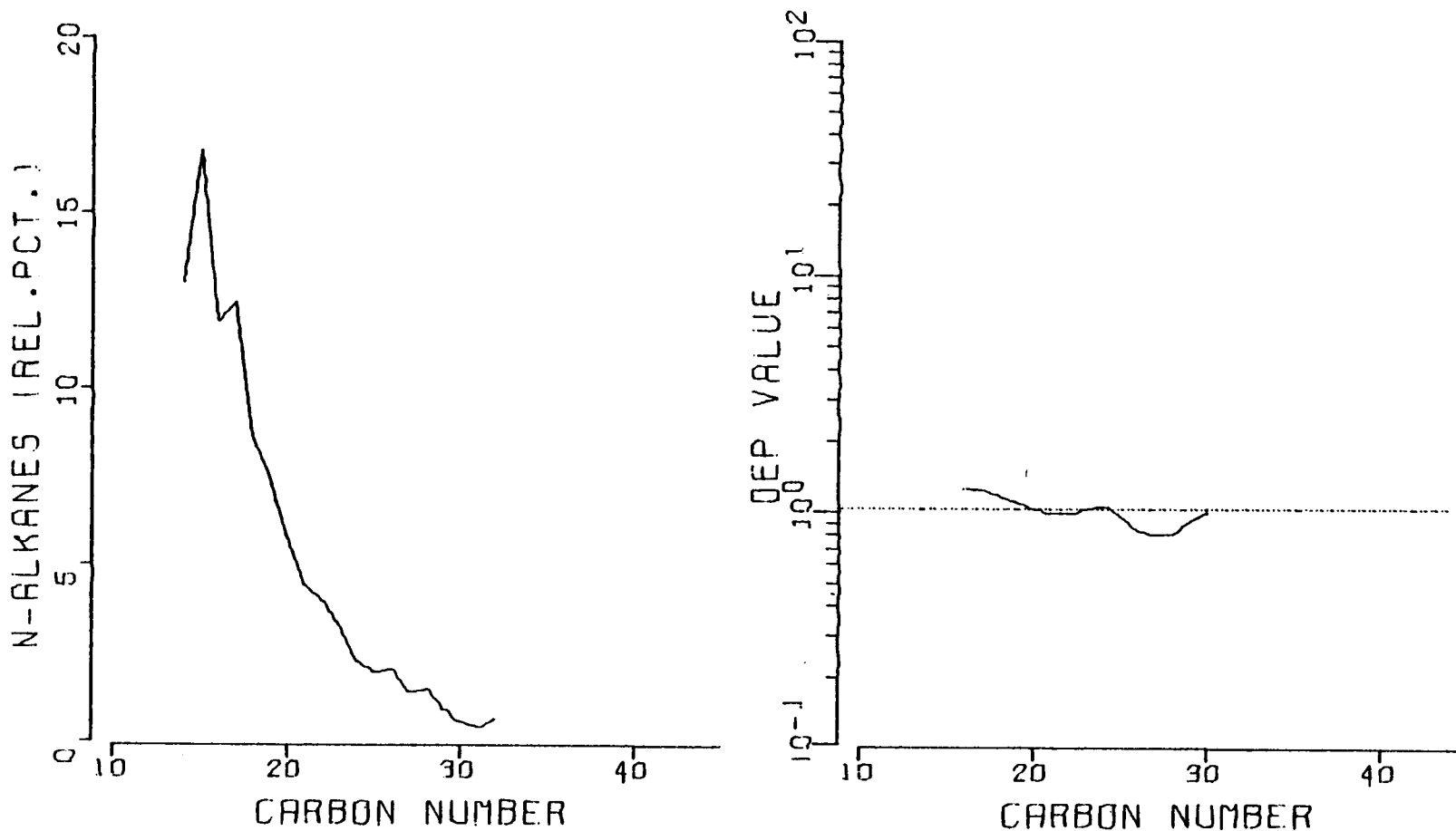


Figure 1.a CONT.'D

113507-1

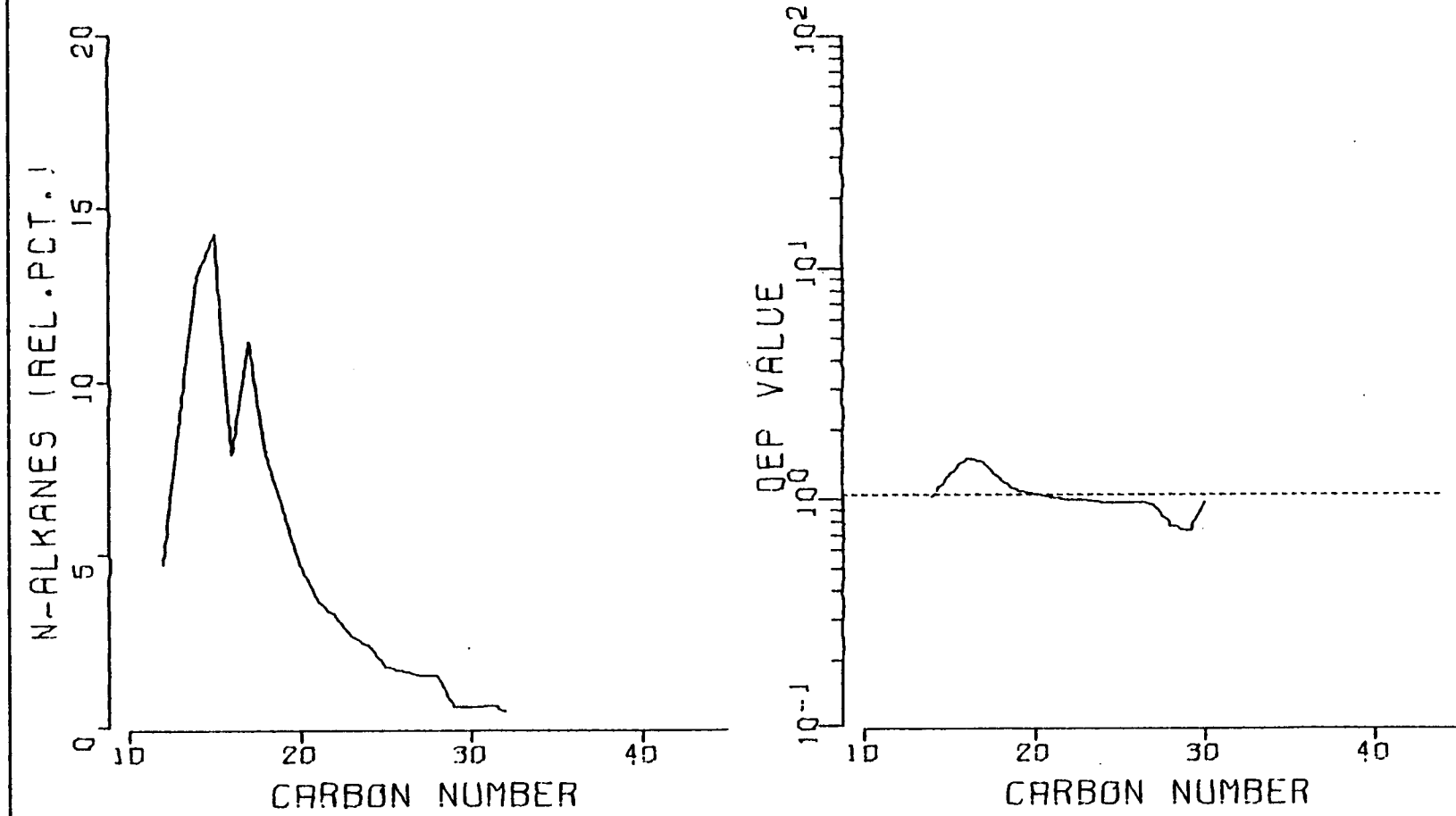


Figure 1.a CONT.'D

114507-1

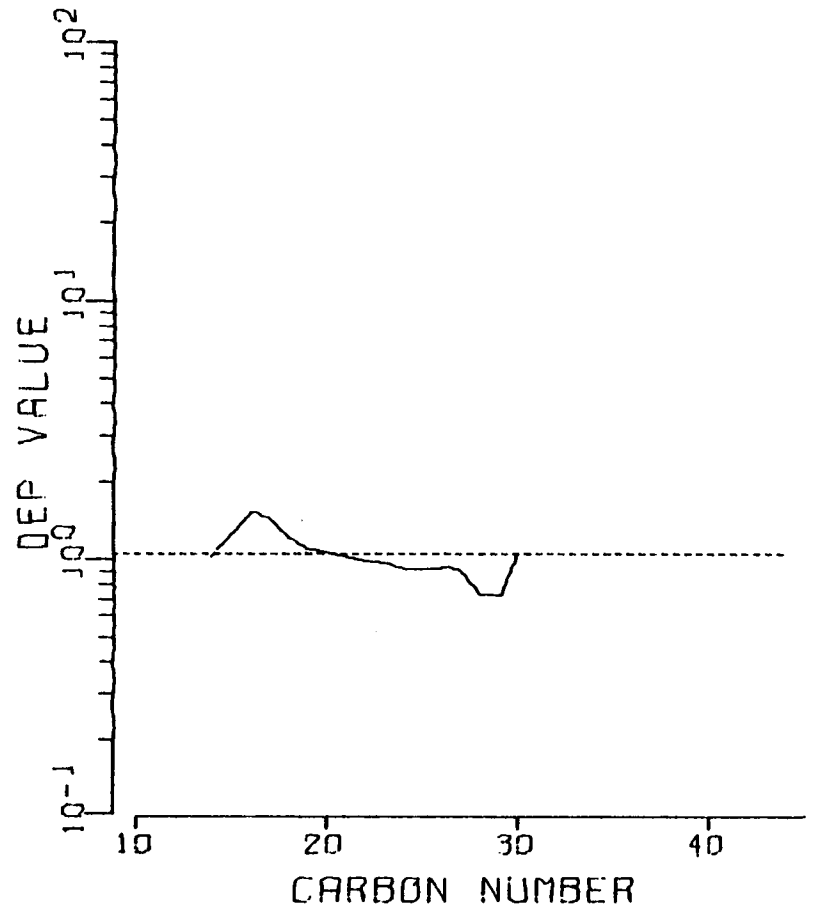
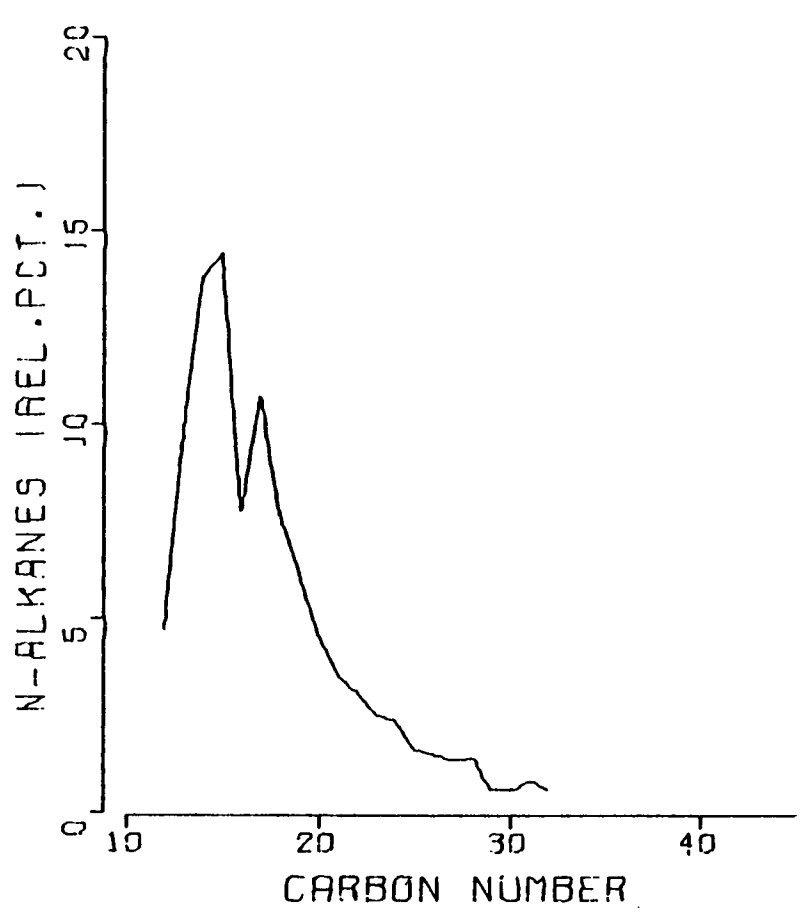


Figure 1.a CONT.'D

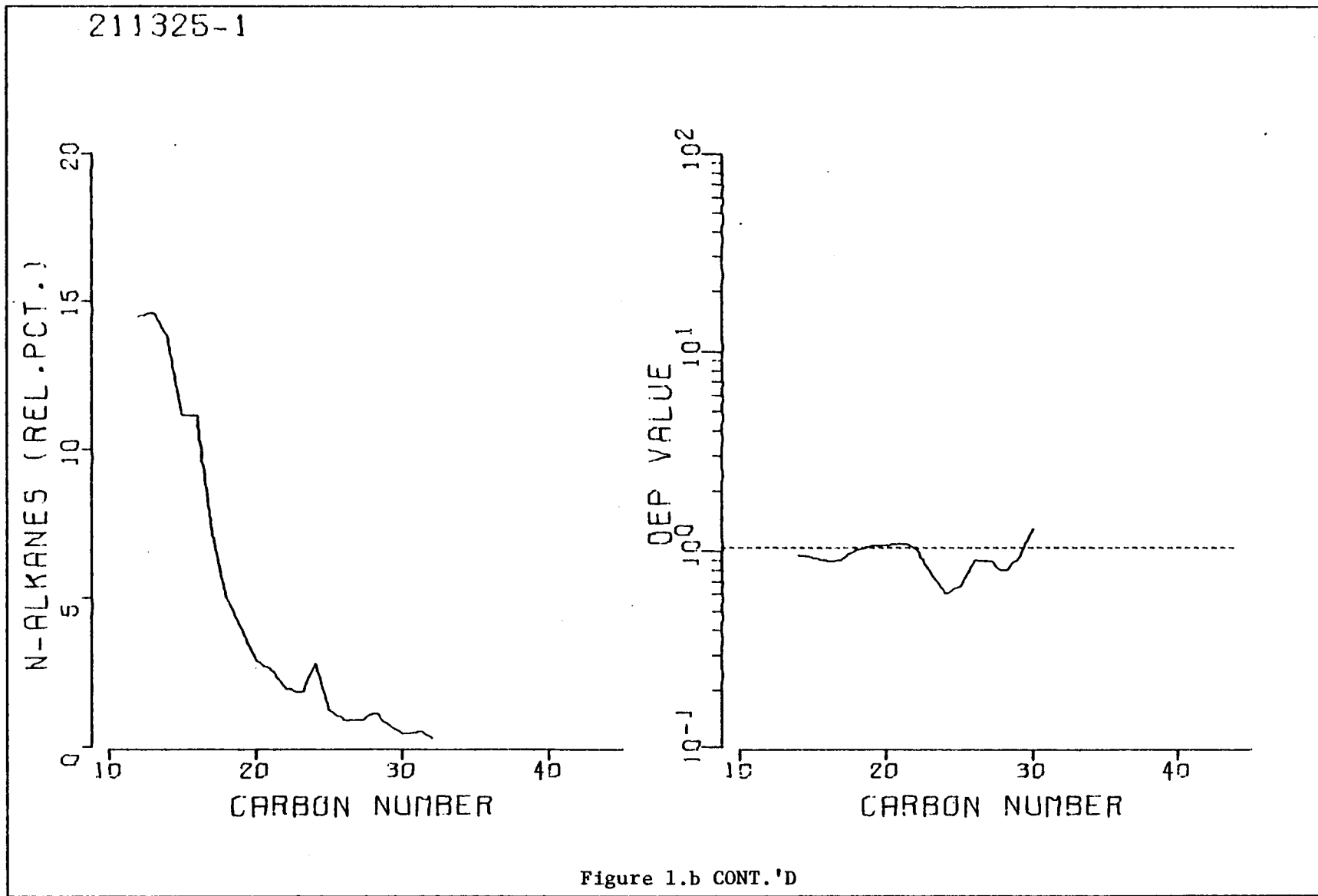


Figure 1.b CONT.'D

211416-1

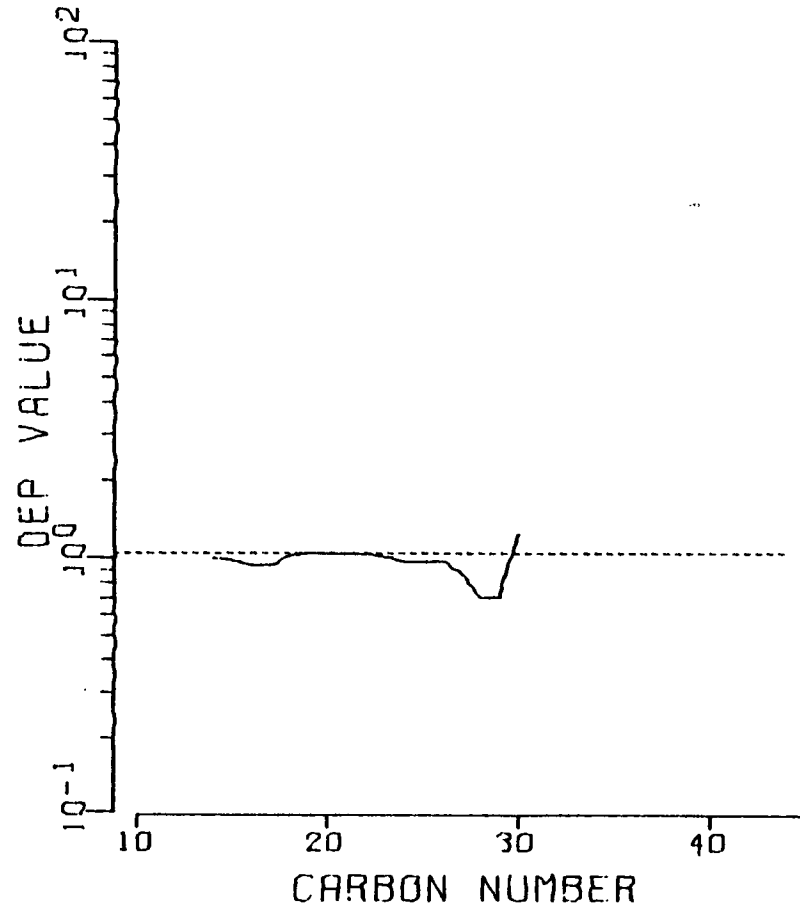
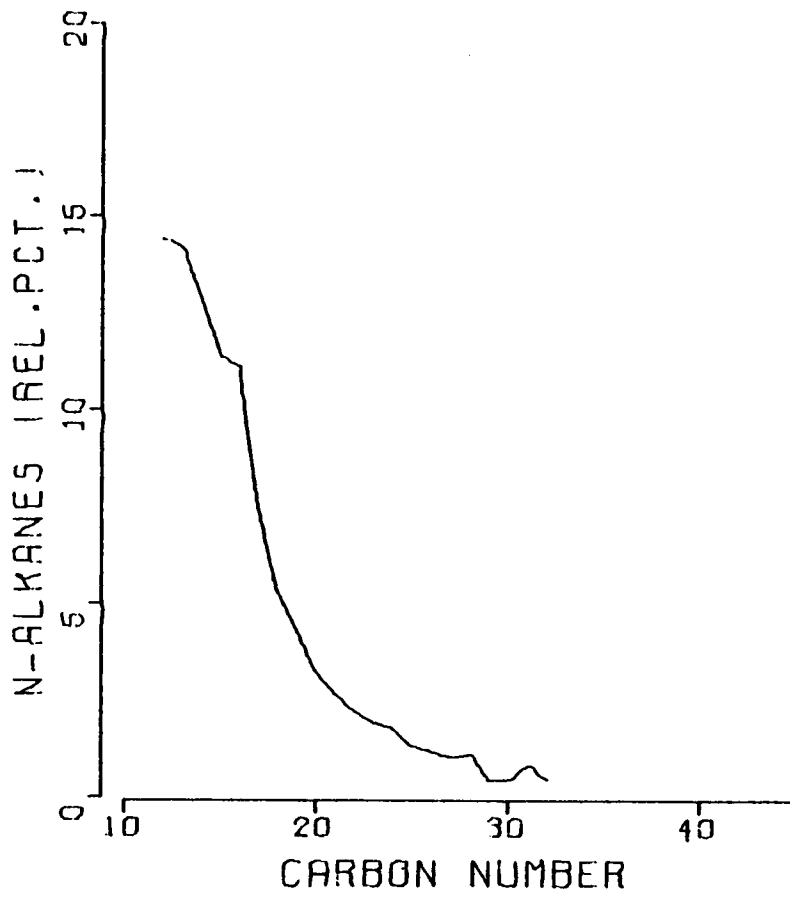


Figure 1.b CONT.'D

211507-1

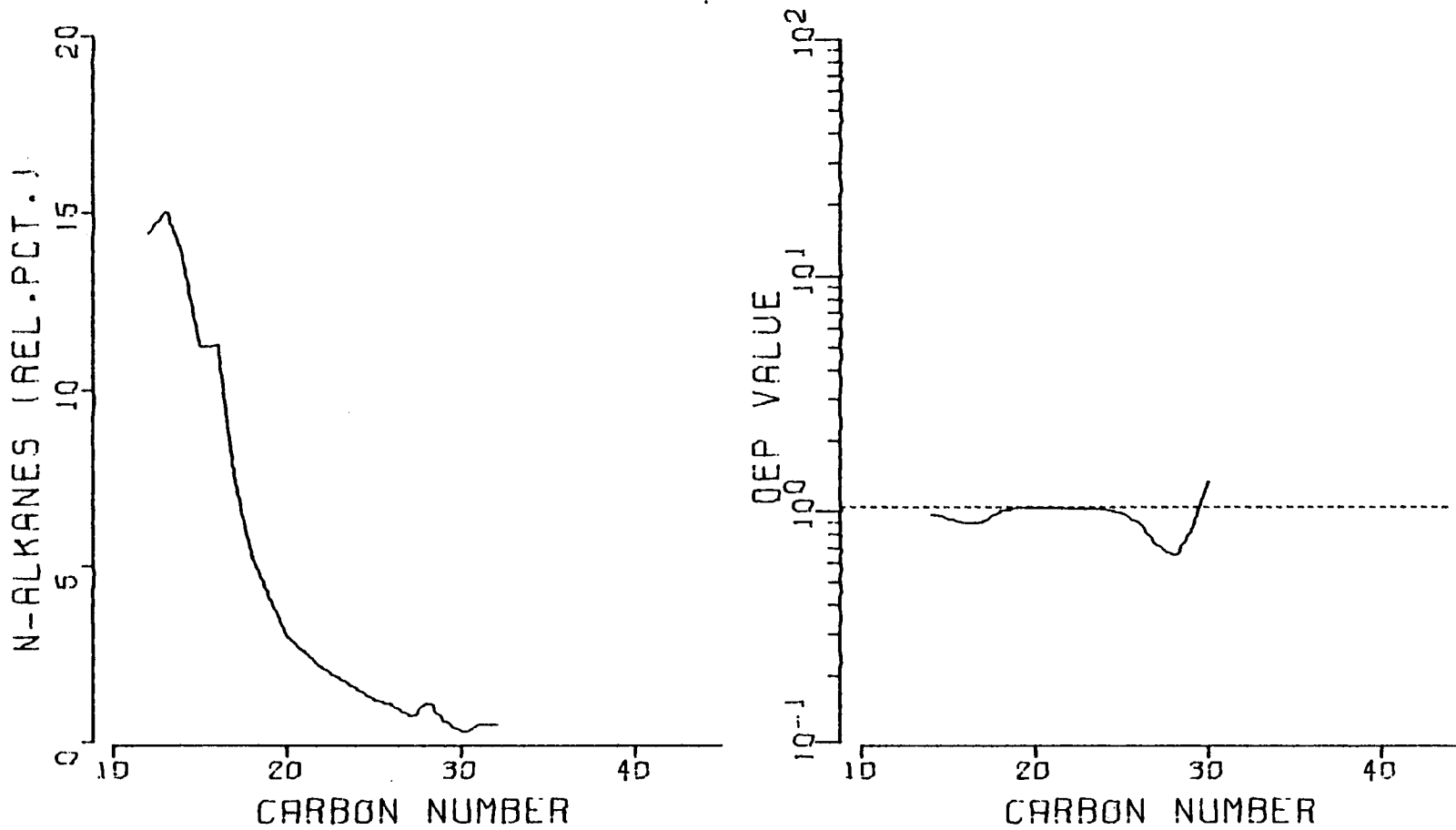


Figure 1.b CONT.'D

211620-1

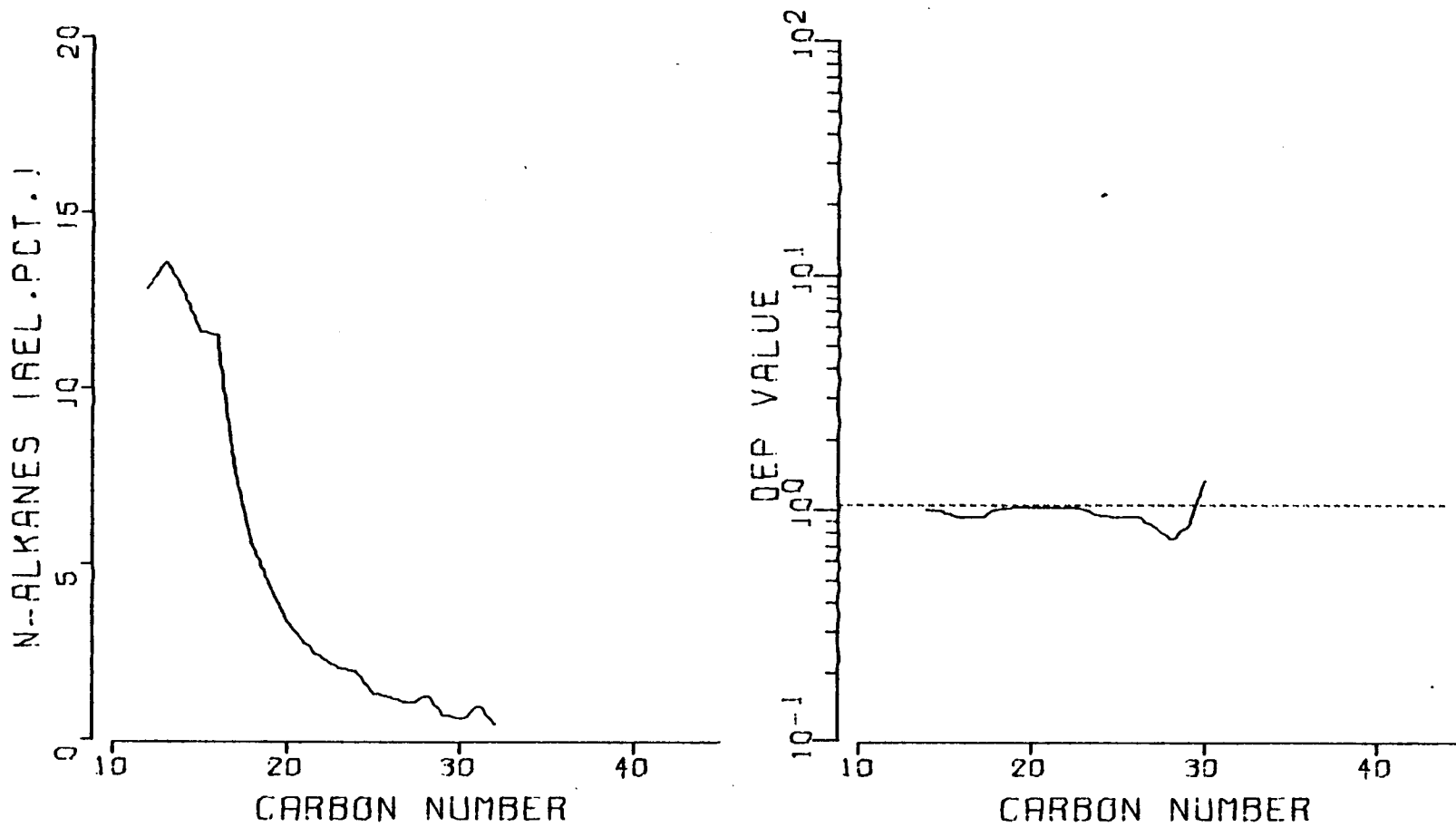


Figure 1.b CONT.'D

212325-1

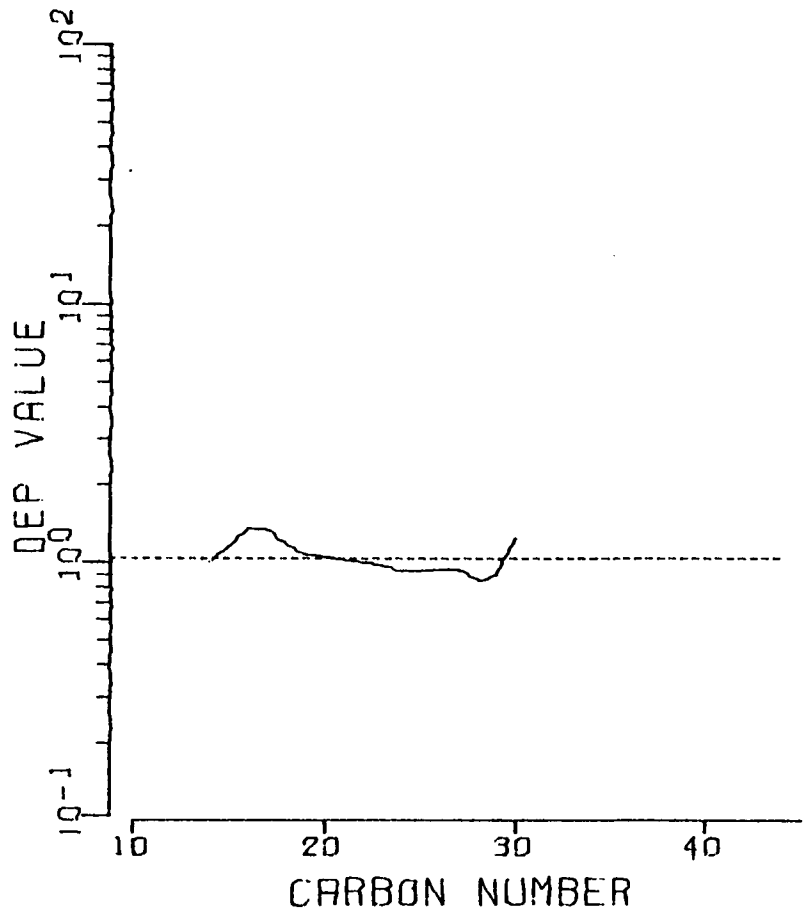
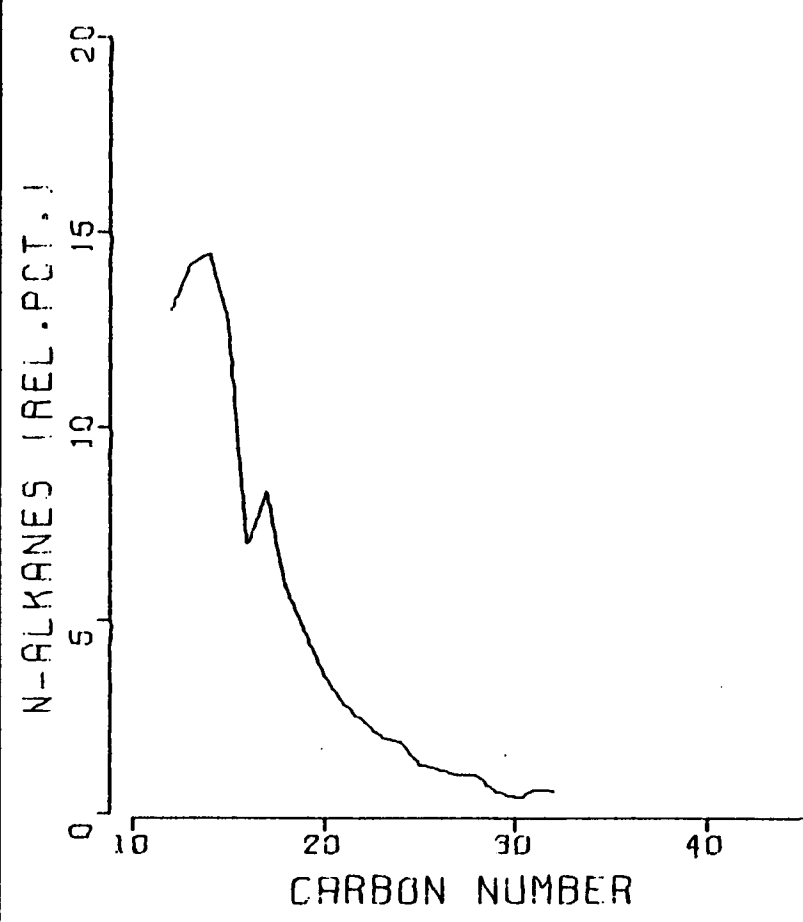


Figure 1.b CONT.'D

212415-1

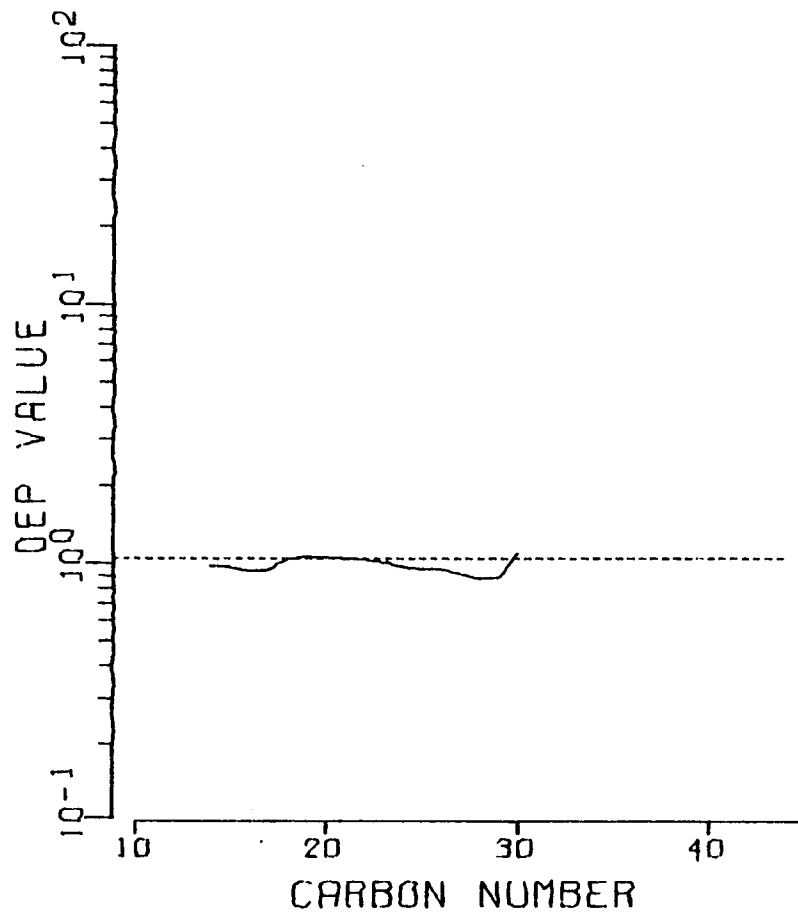
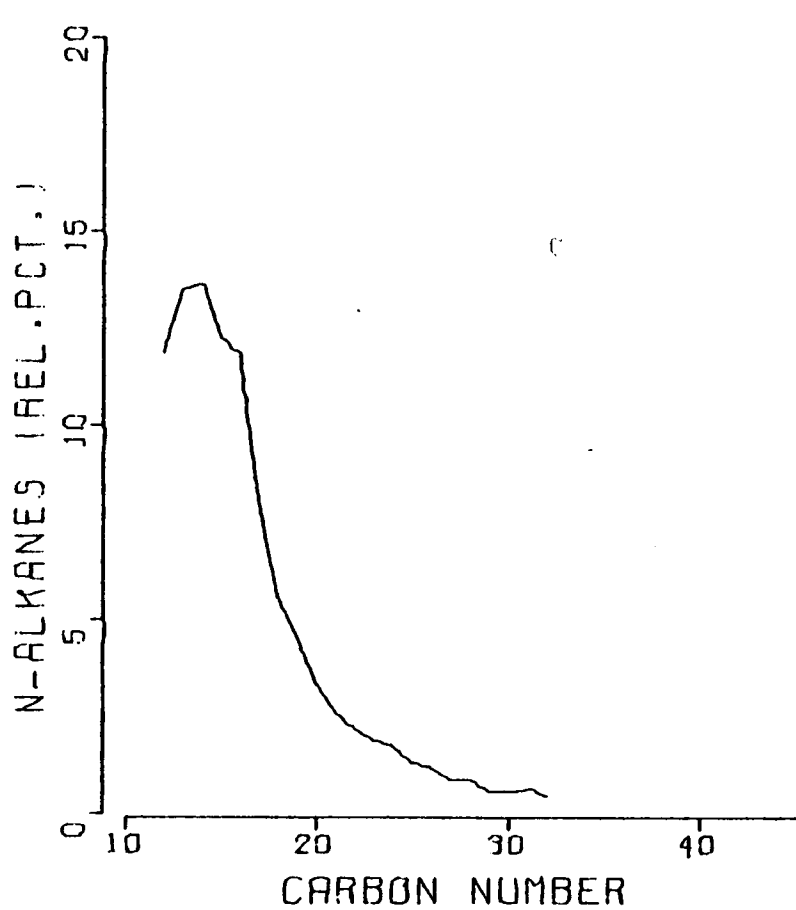
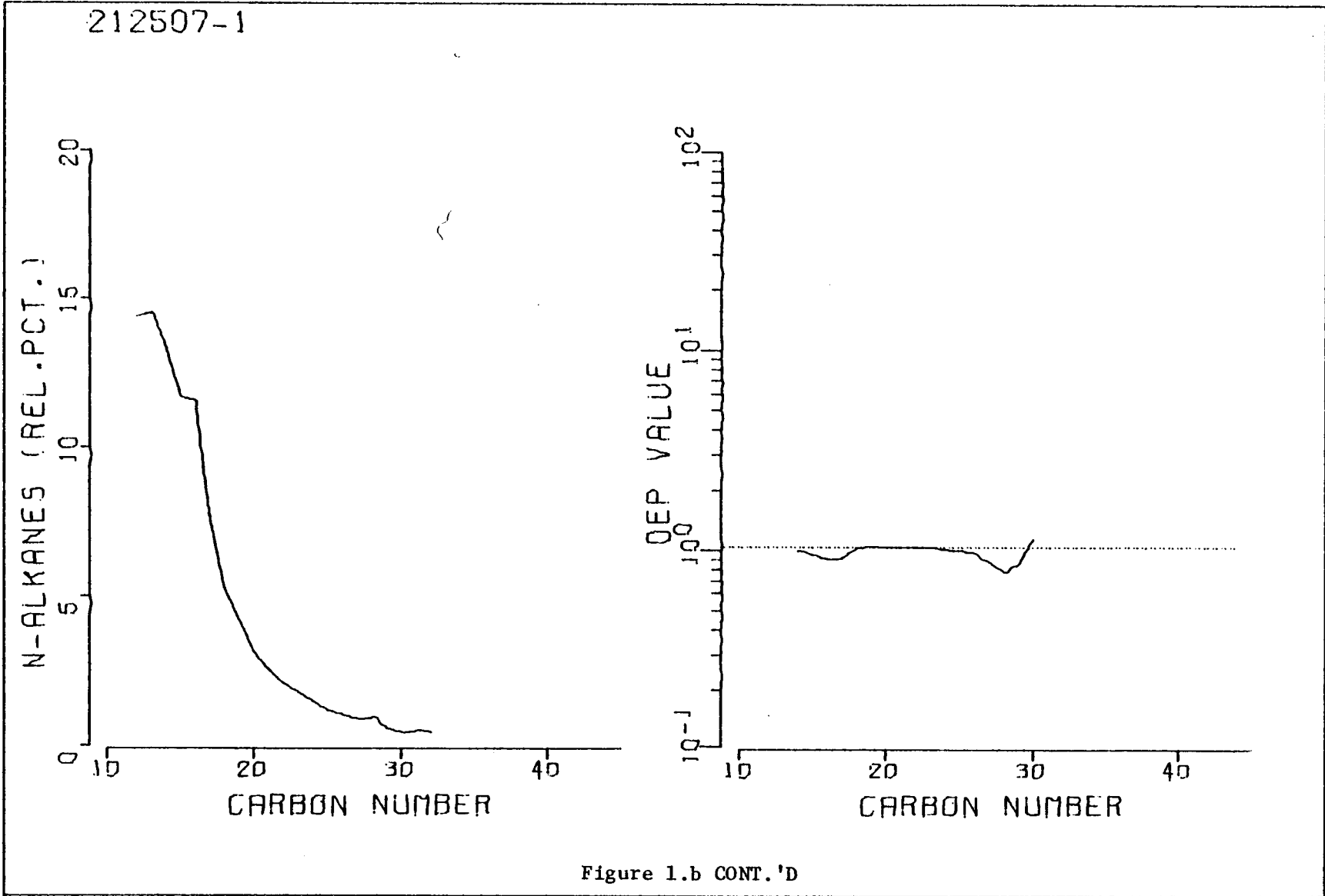


Figure 1.b CONT.'D



212520-1

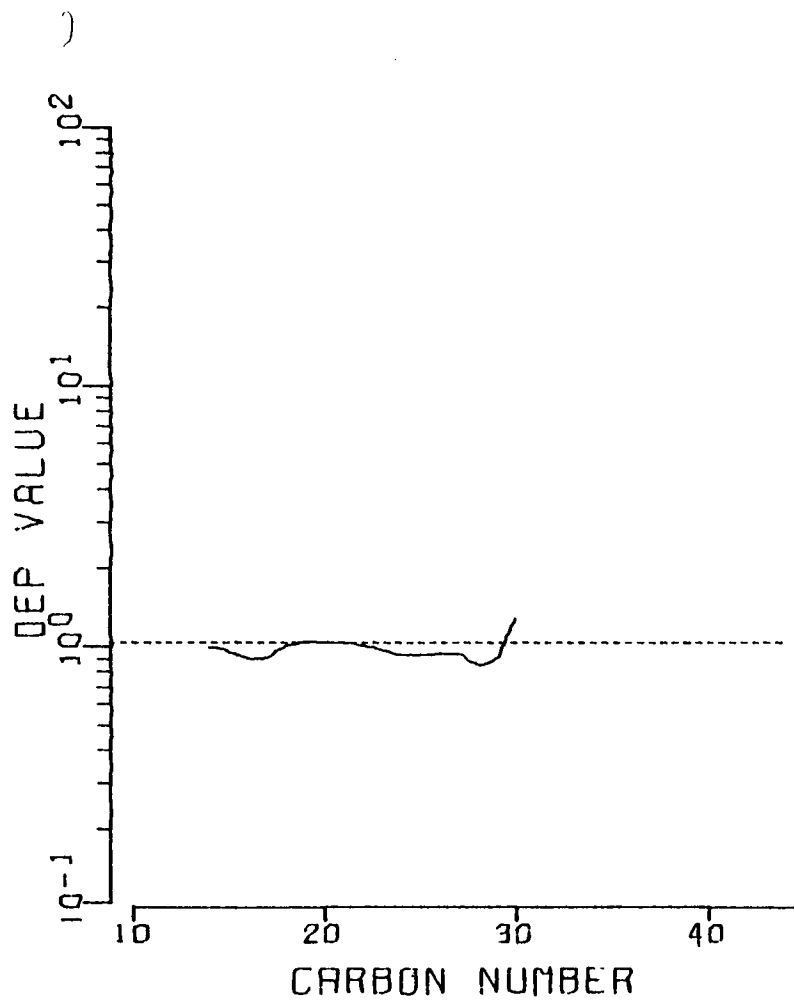
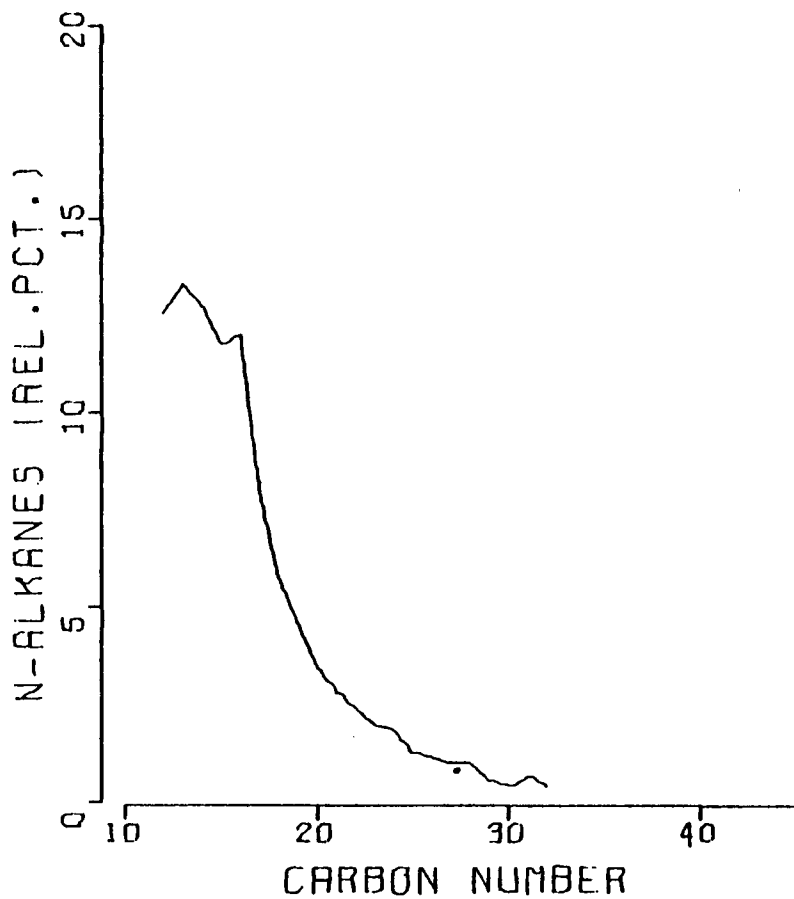
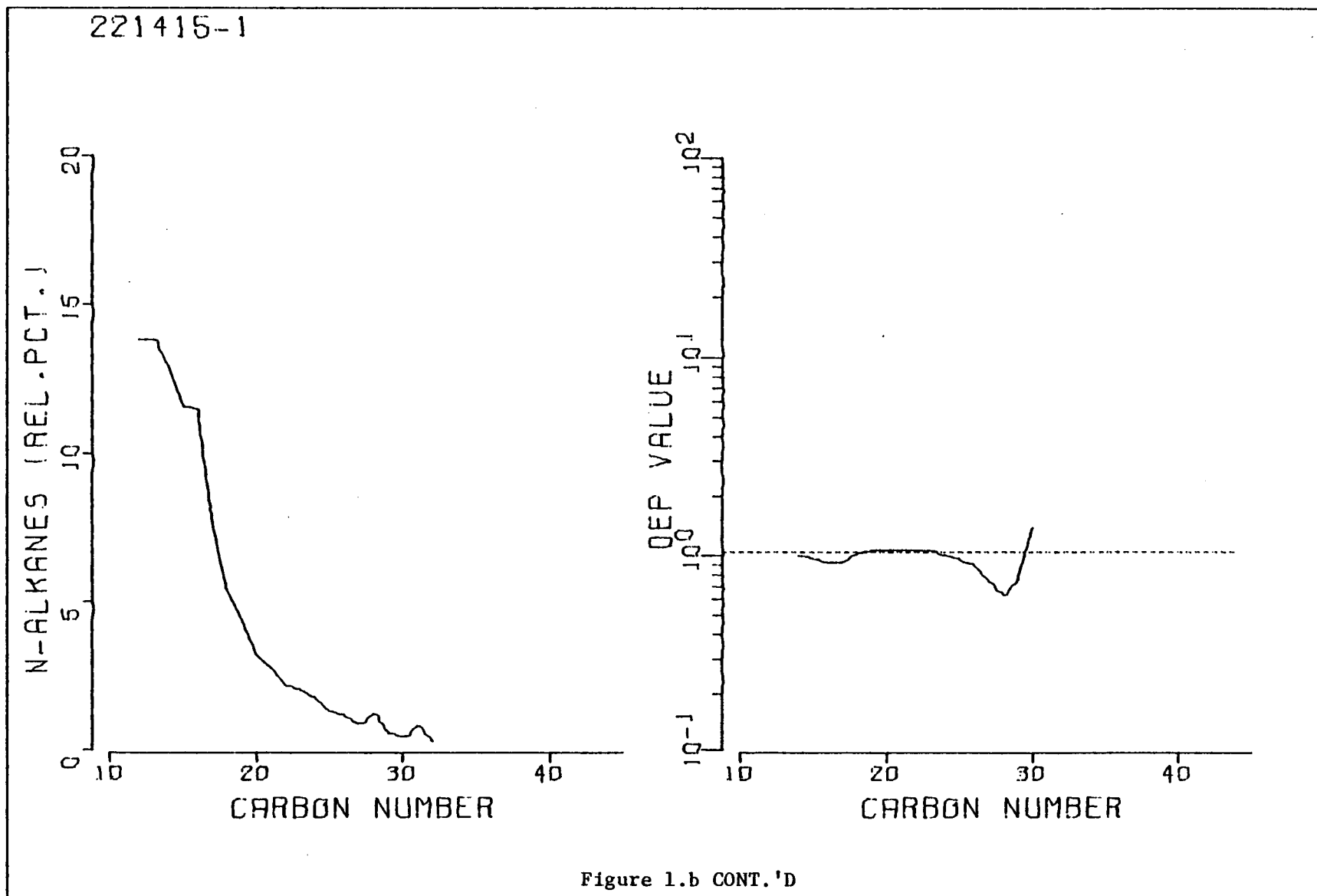


Figure 1.b CONT.'D



221507-1

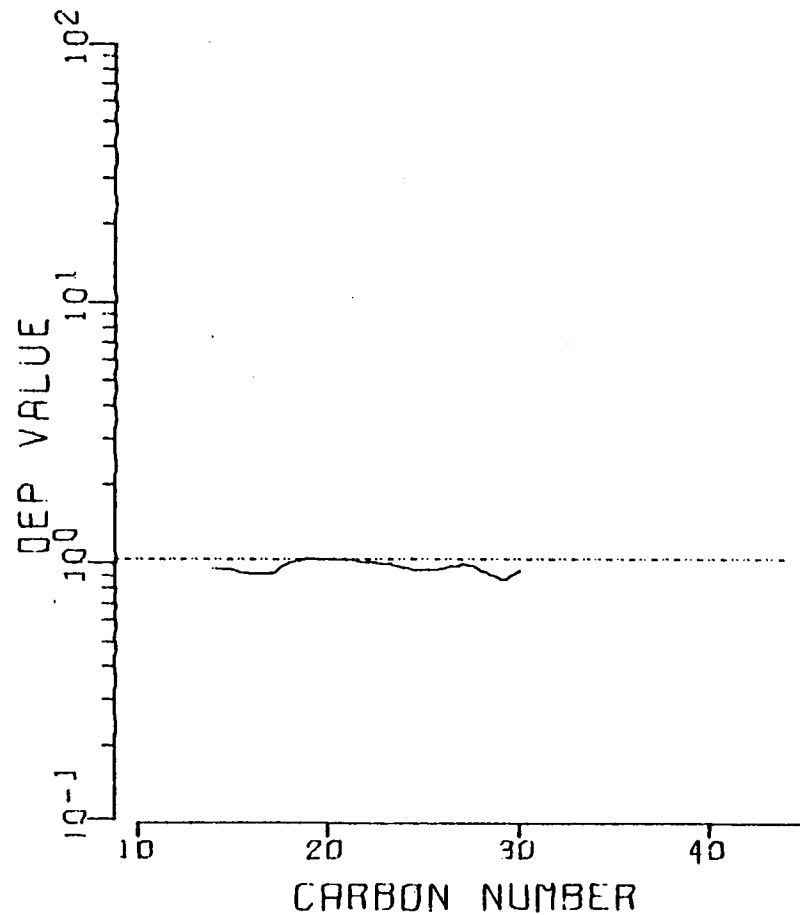
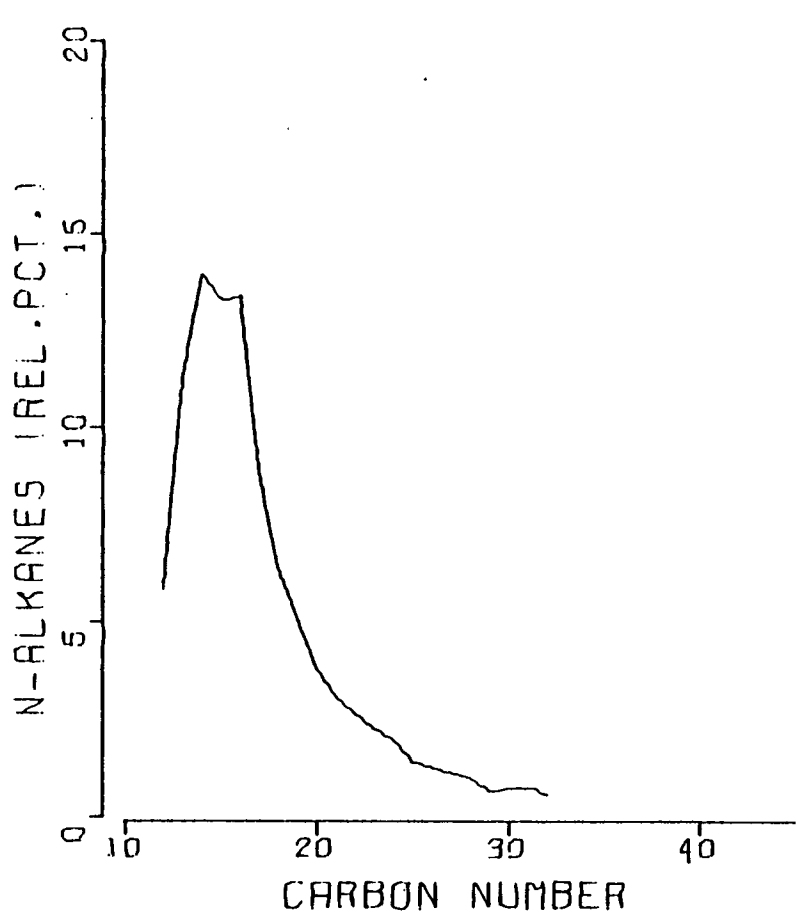
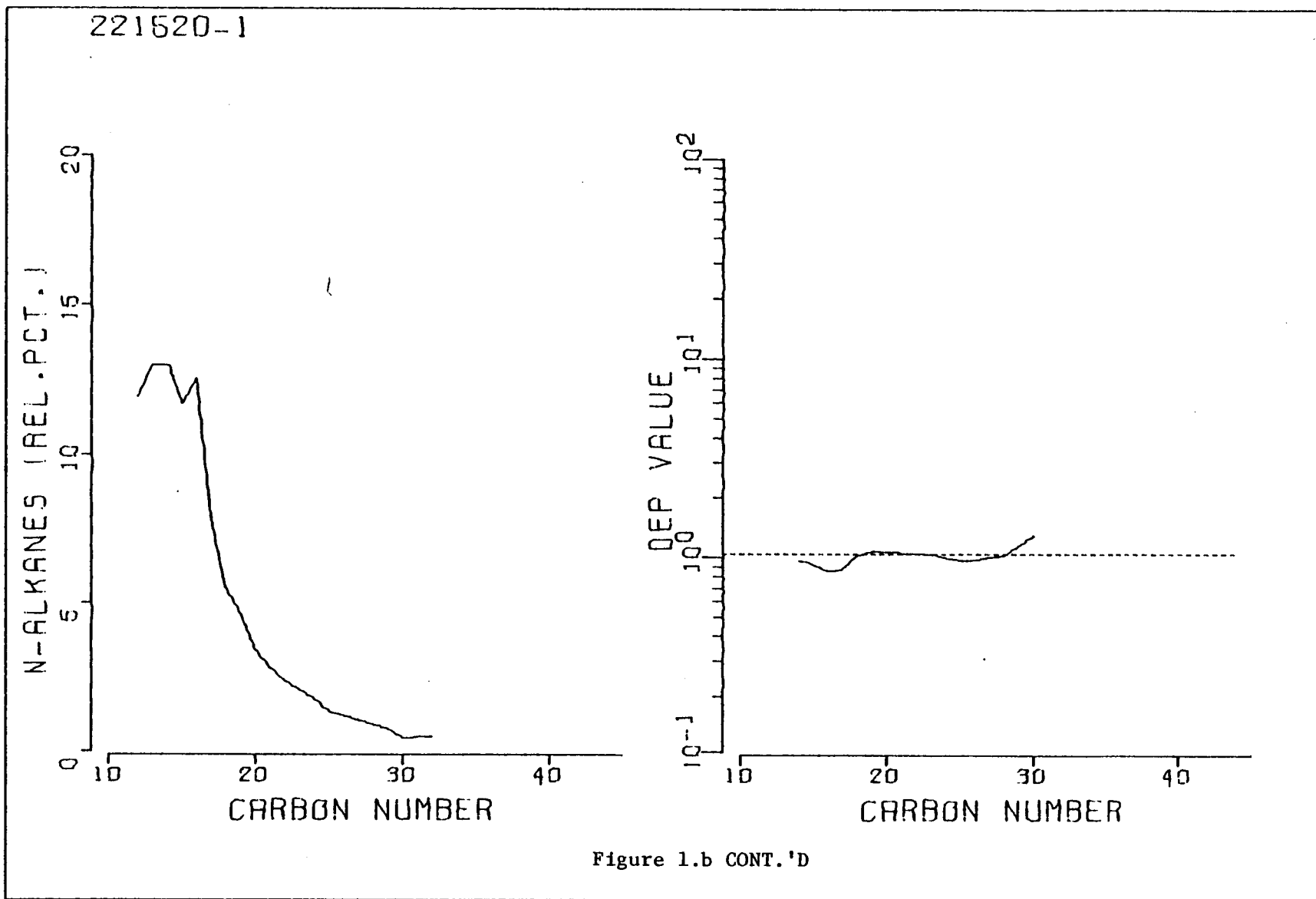


Figure 1.b CONT.'D



222415-1

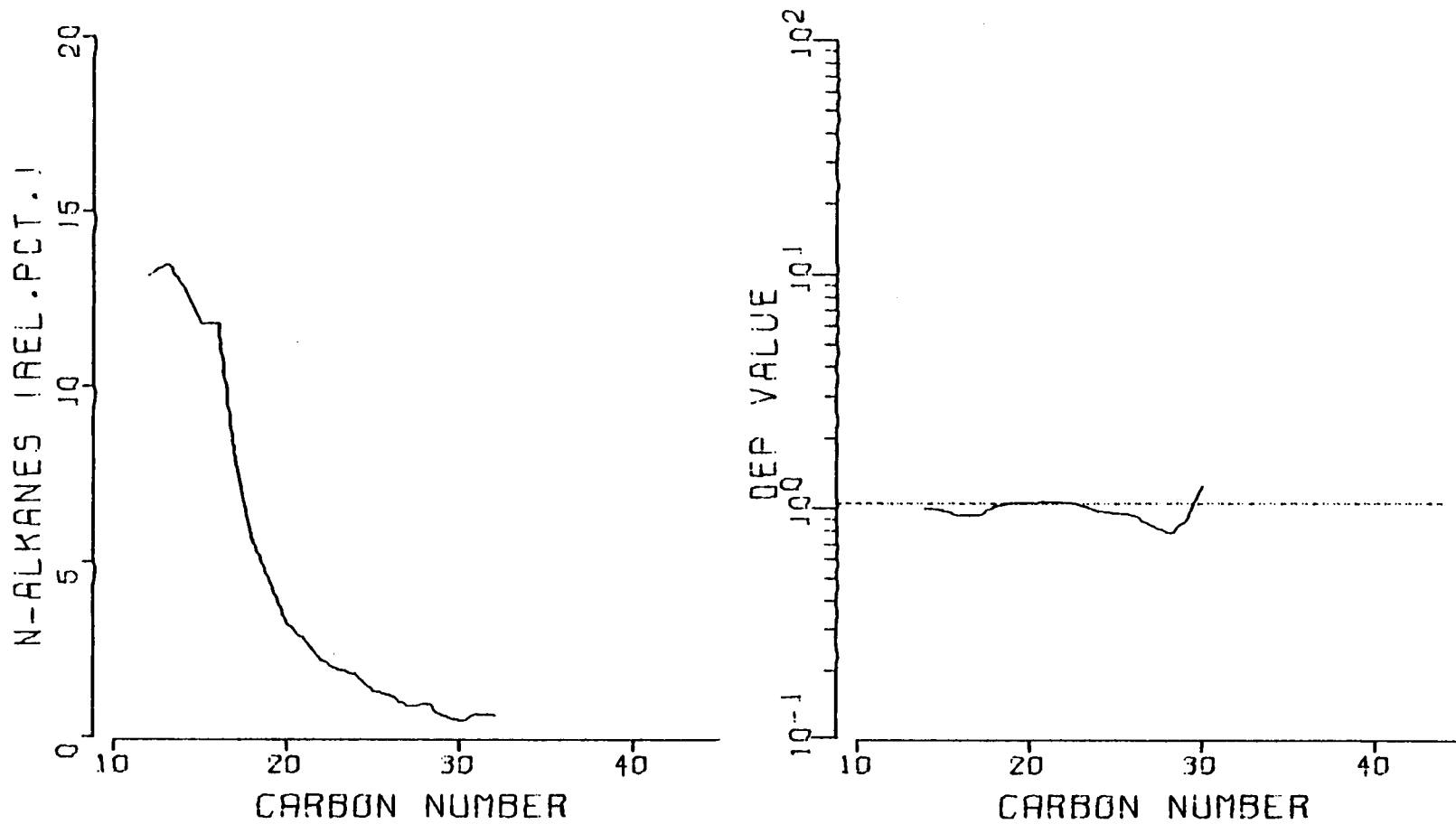


Figure 1.b CONT. 'D

222507-1

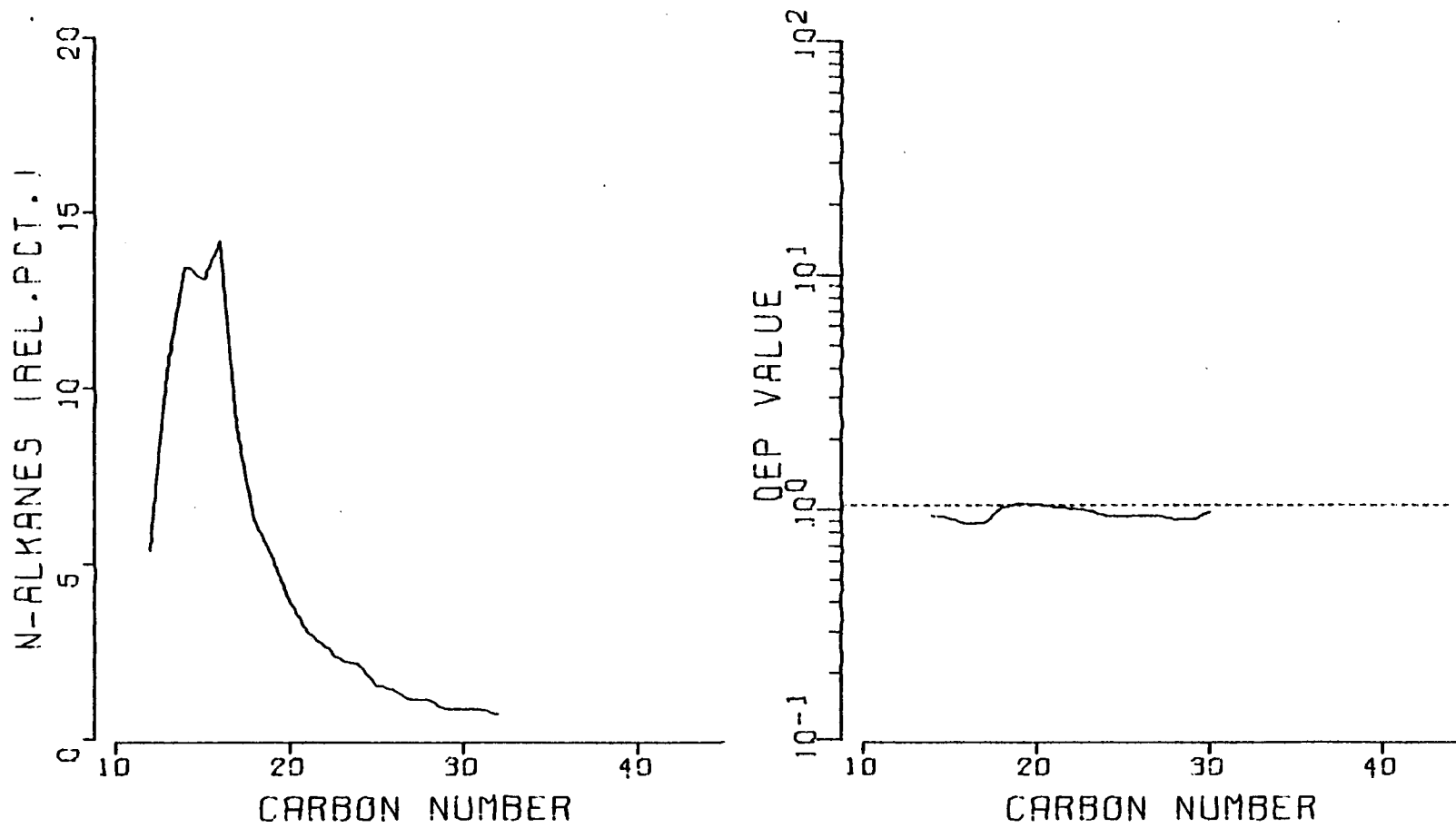


Figure 1.b CONT.'D

222520-1

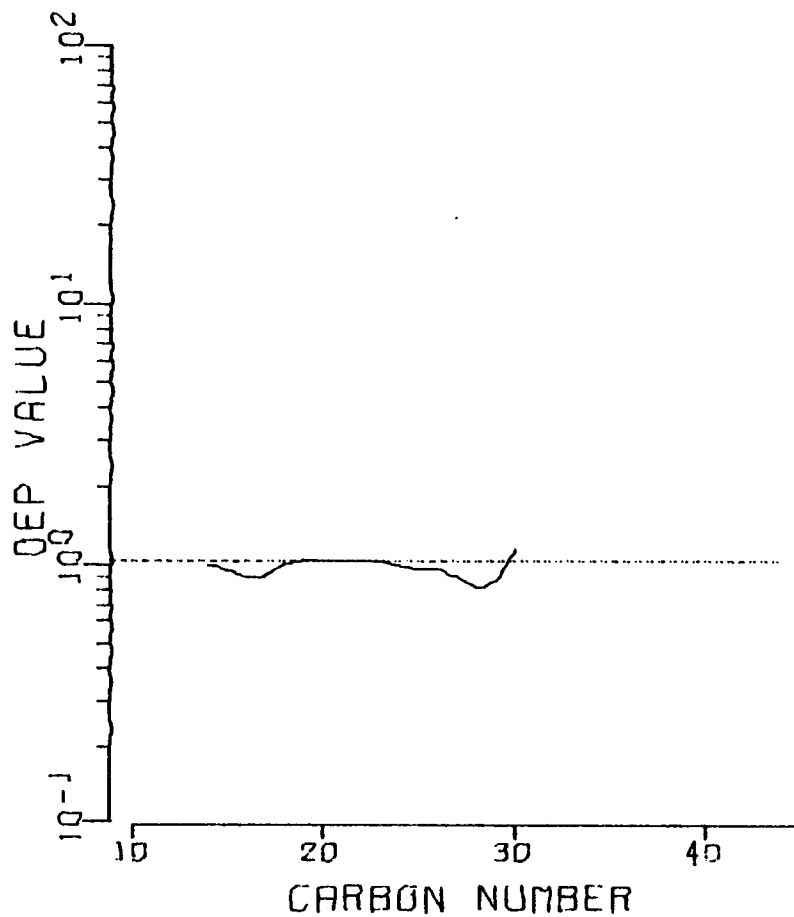
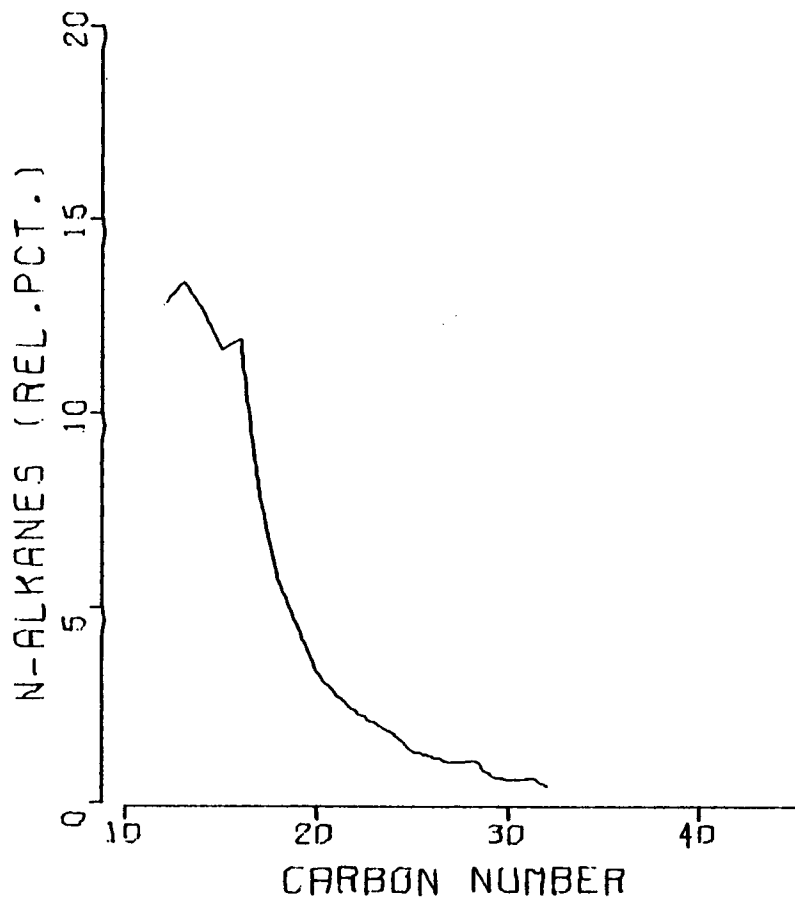


Figure 1.b CONT.'D

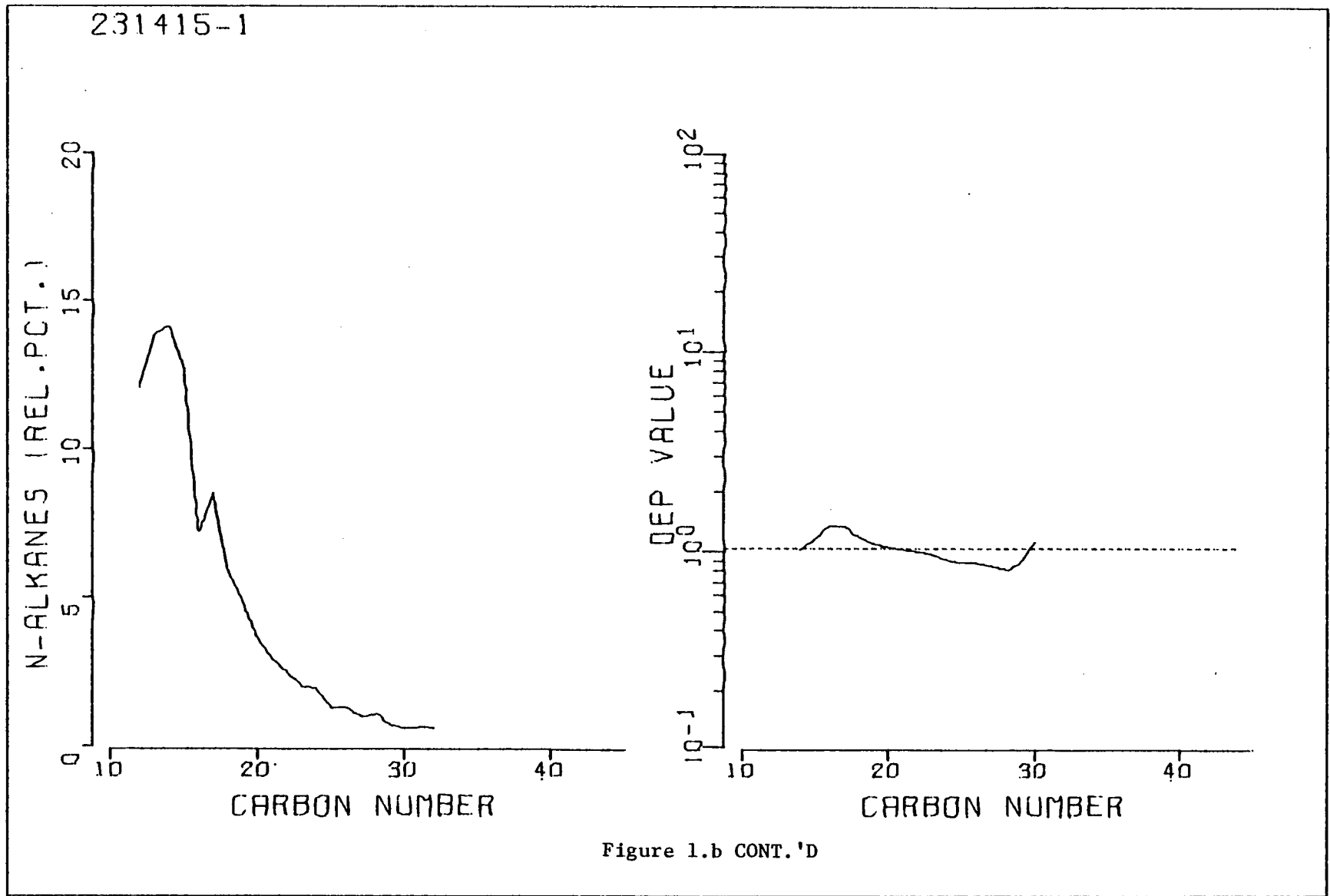


Figure 1.b CONT.'D

231507-1

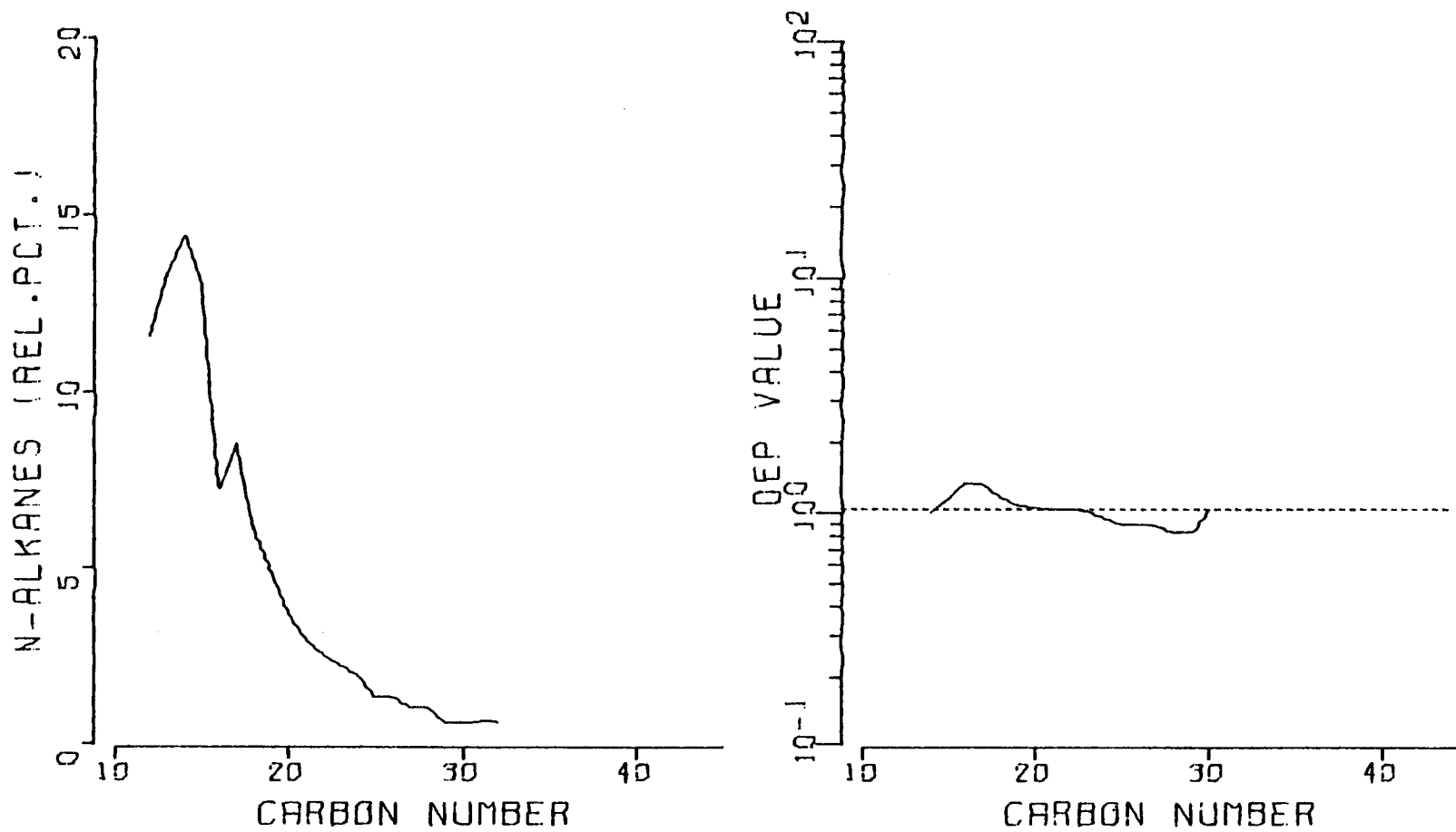
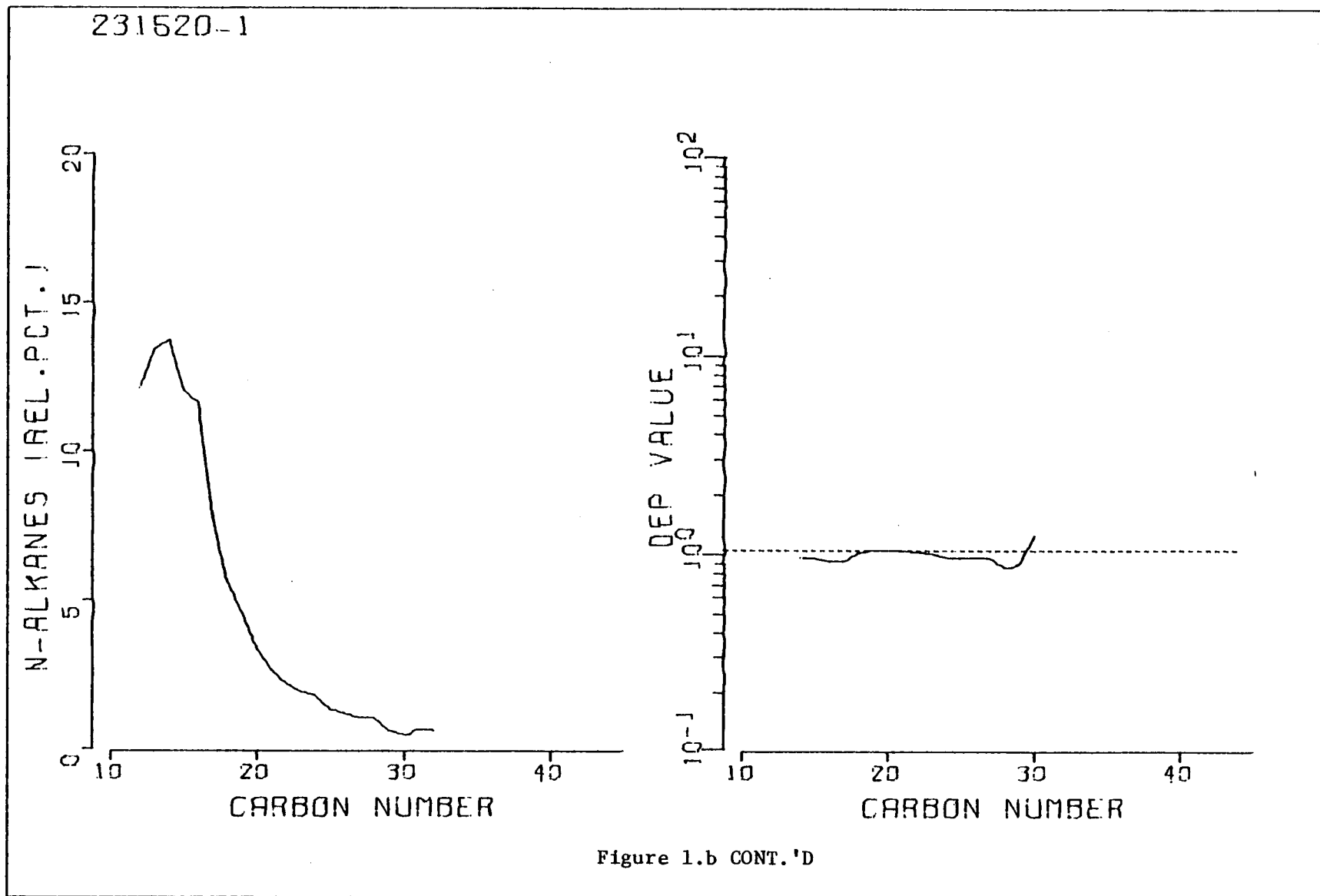


Figure 1.b CONT.'D



232415-1

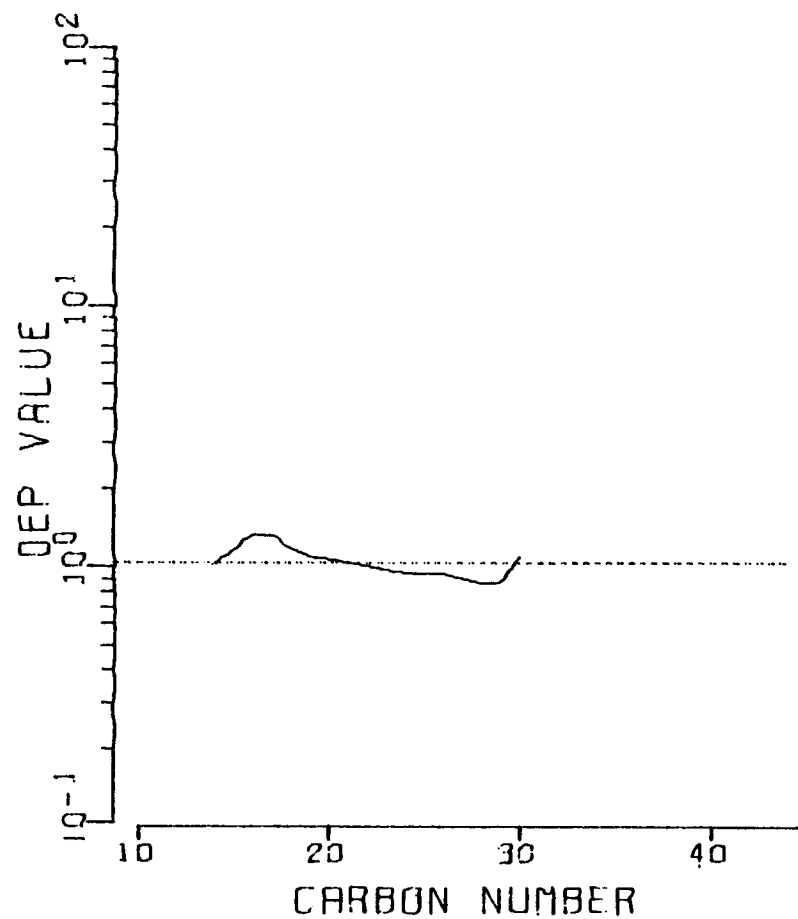
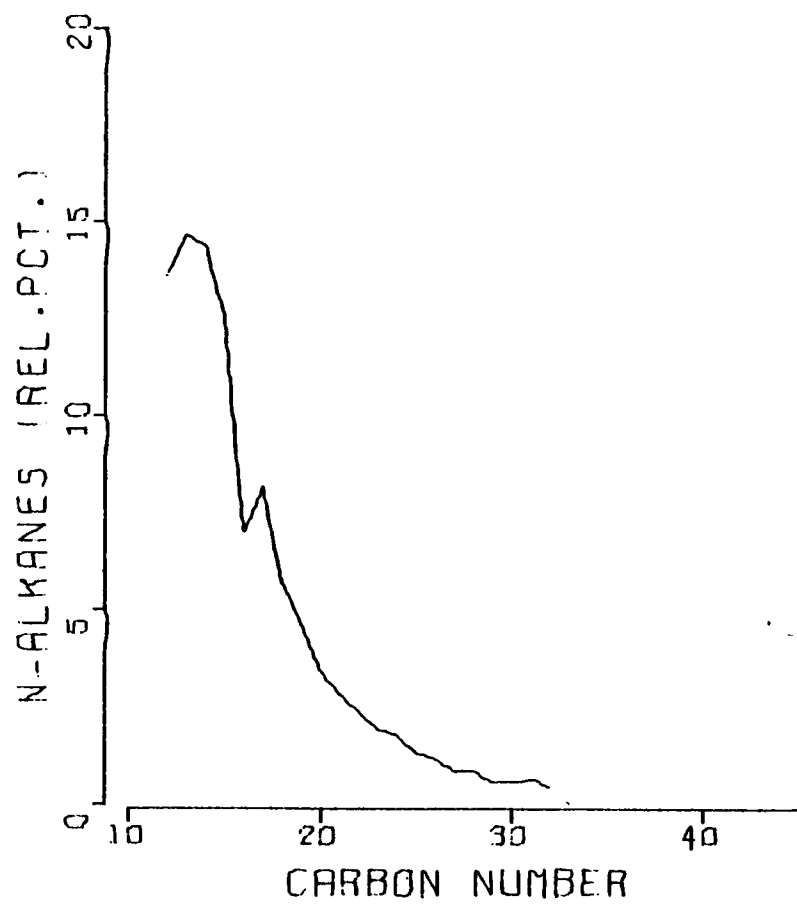


Figure 1.b CONT.'D

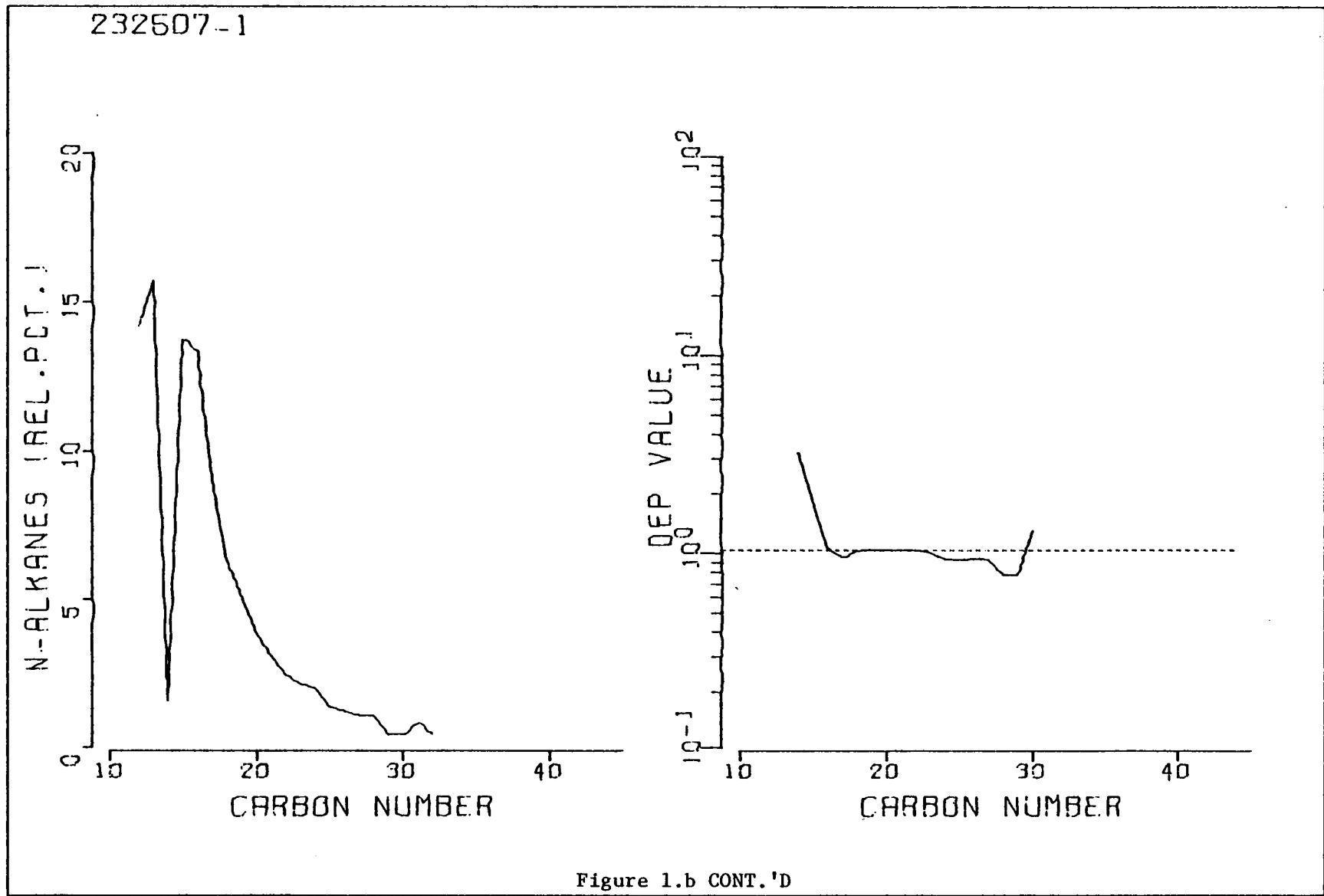


Figure 1.b CONT.'D

232520..1

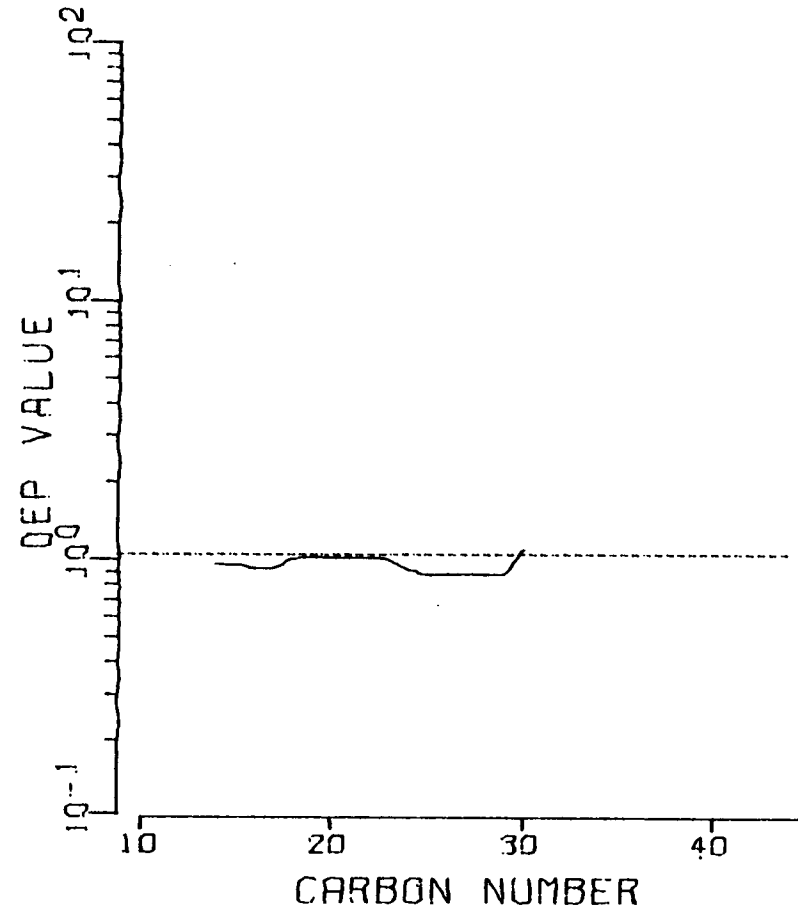
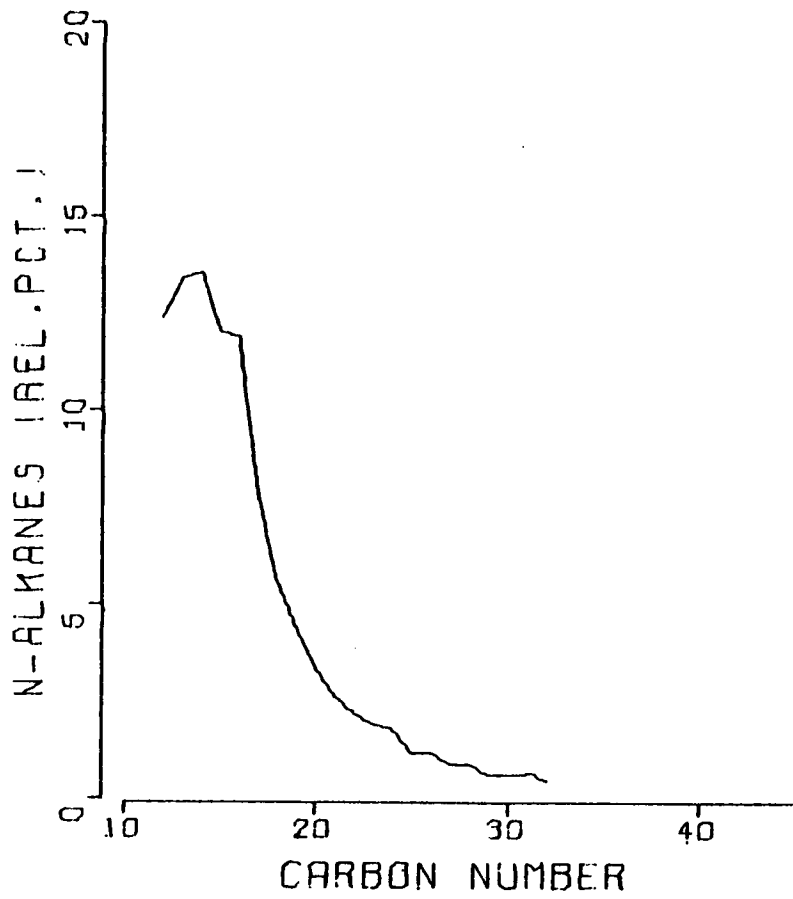
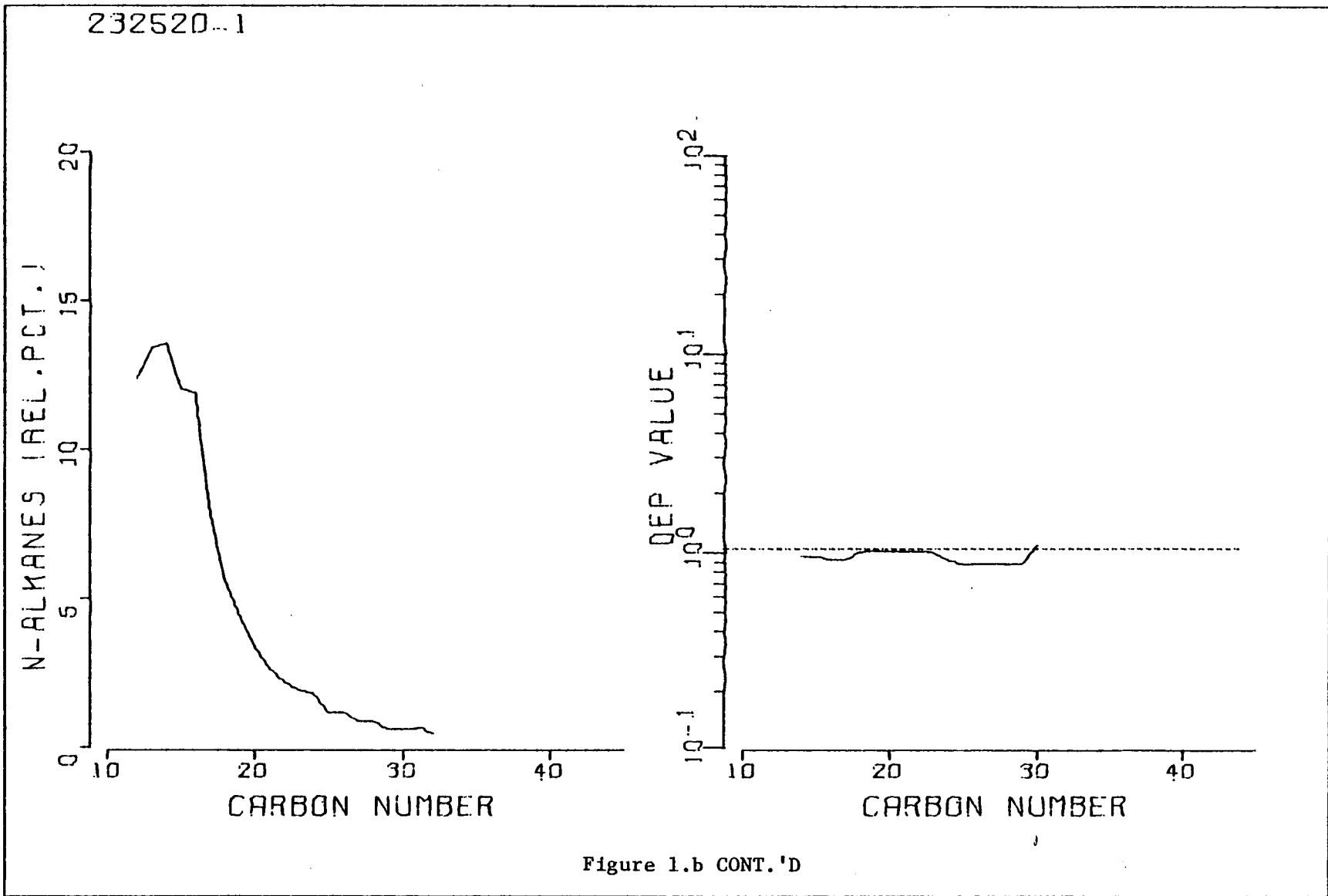


Figure 1.b CONT.'D



213520--1

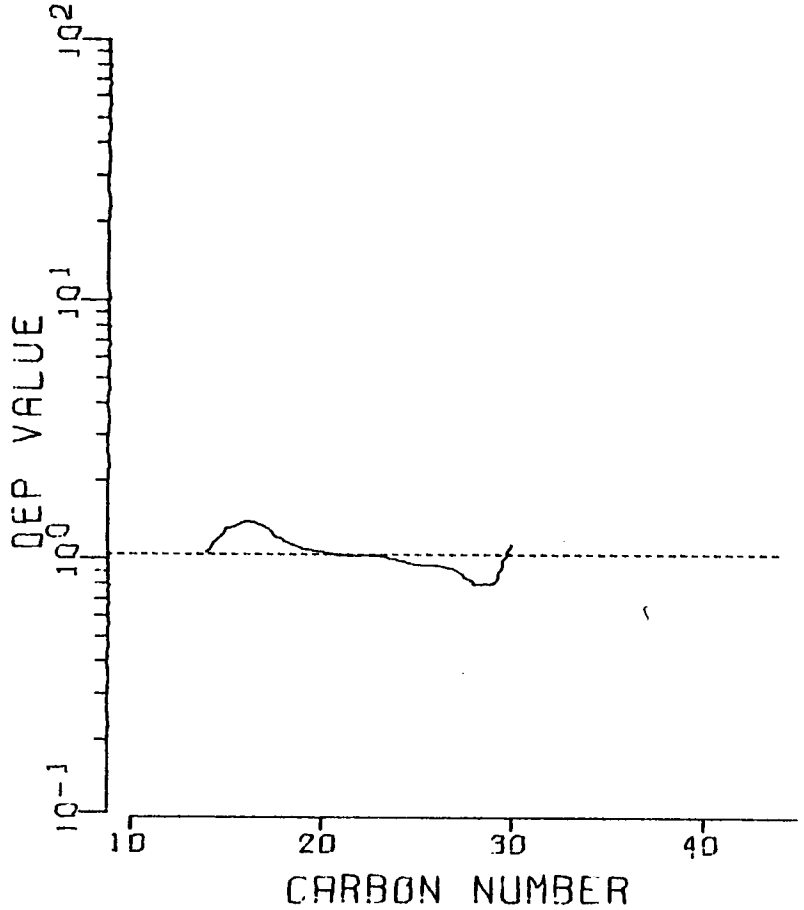
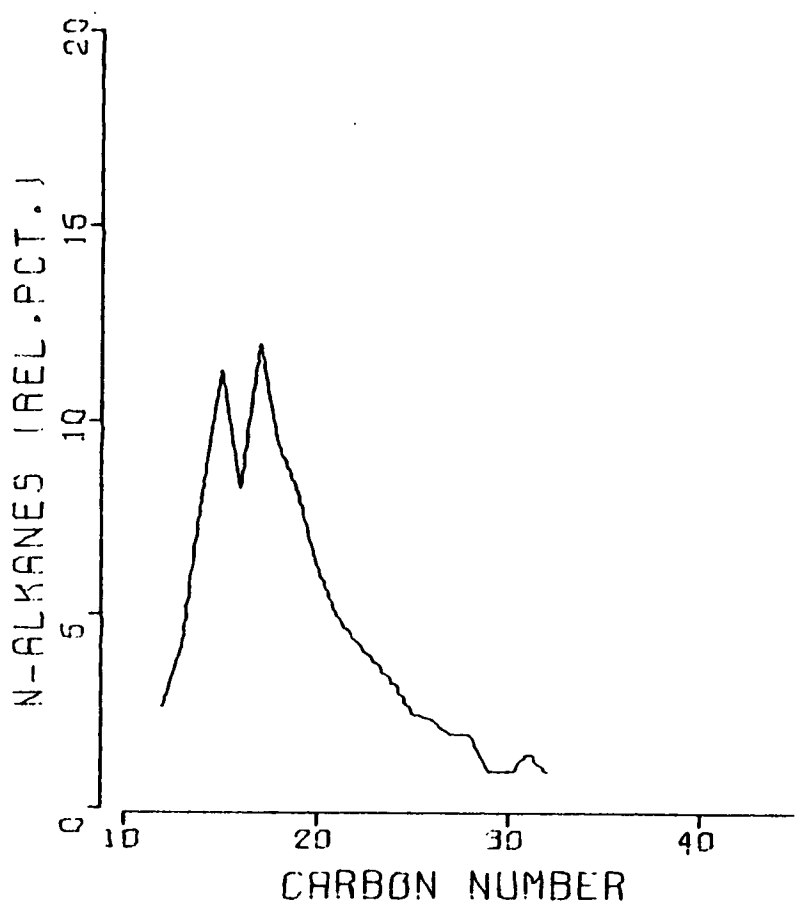


Figure 1.b CONT.'D

214620-1

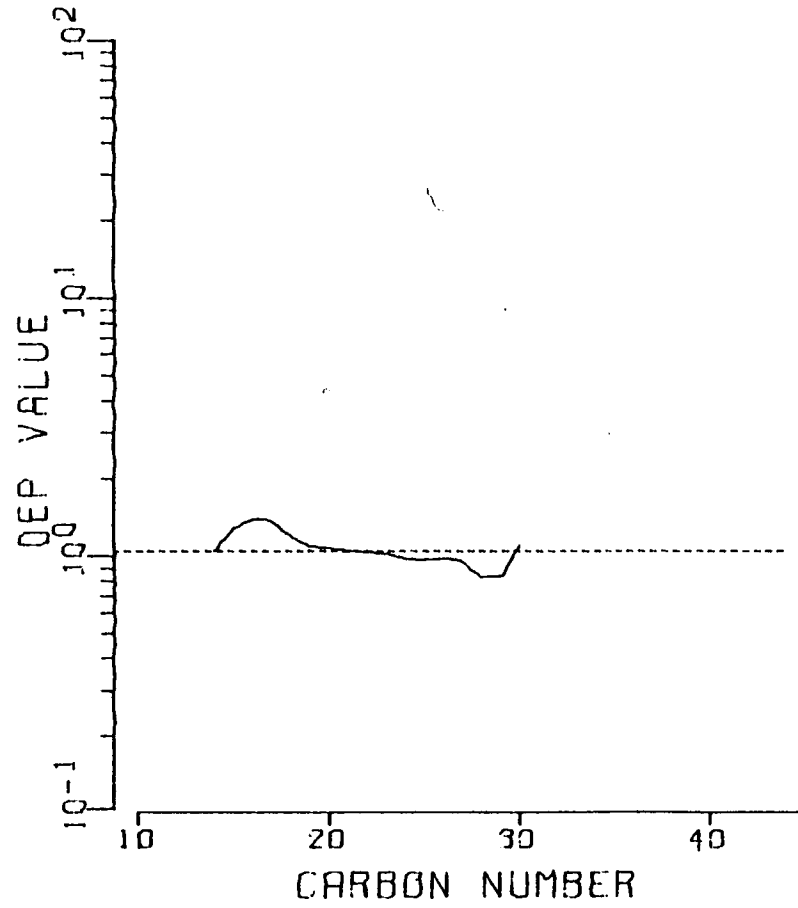
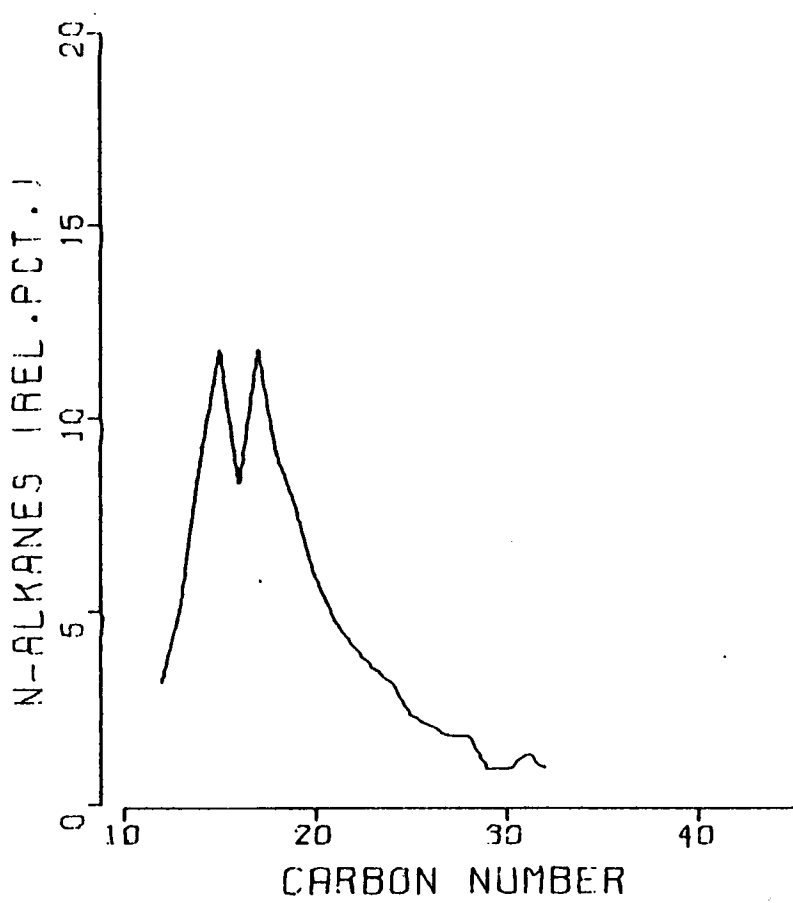


Figure 1.b CONT.'D

311427-1

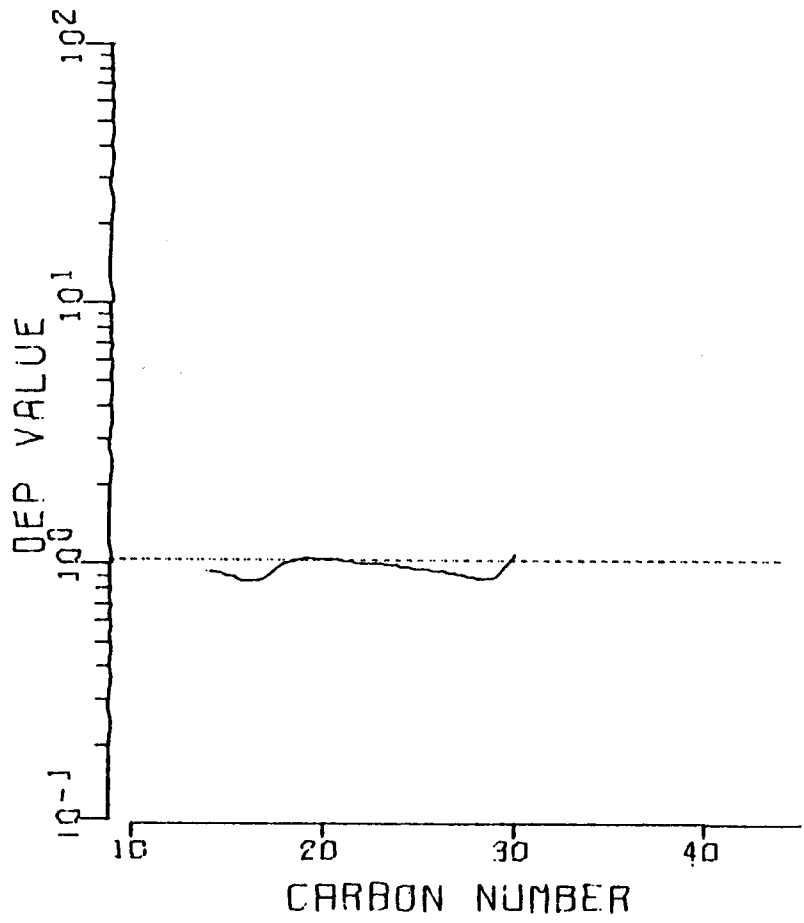
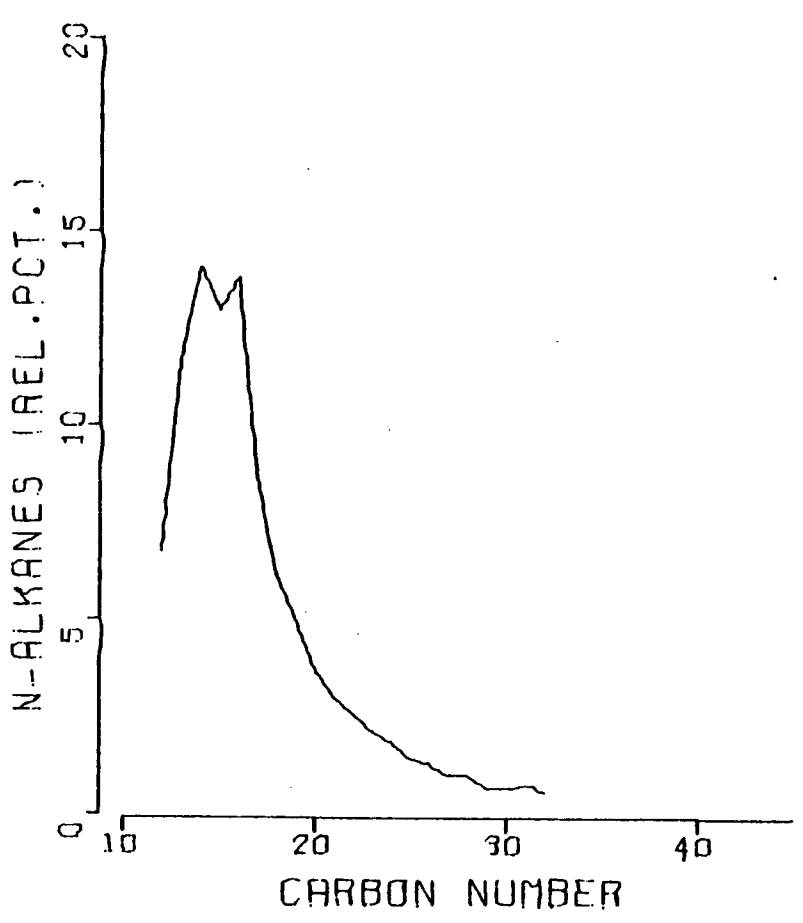


Figure 1.c

311507-1

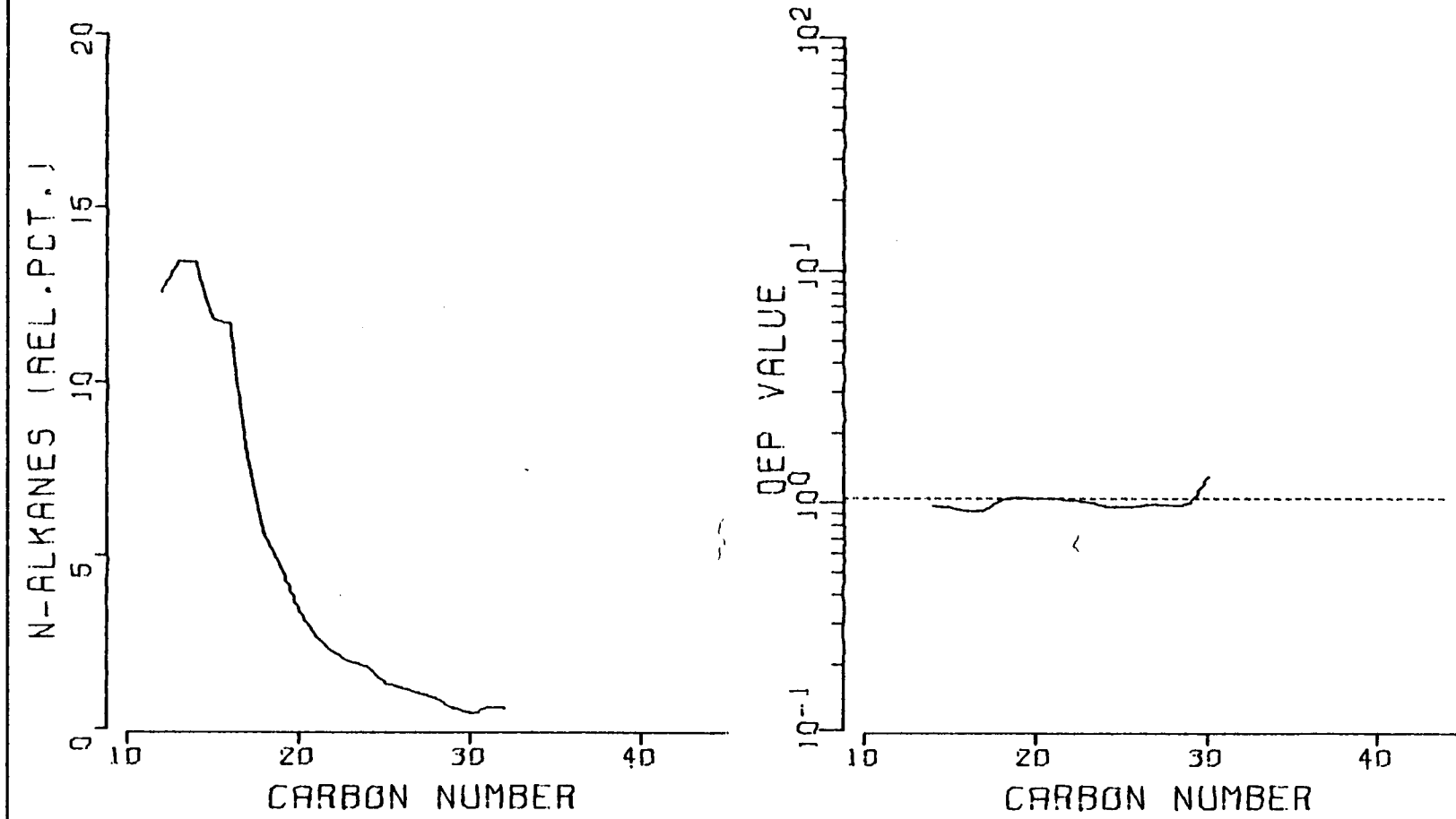


Figure 1.c CONT.'D

311520-1

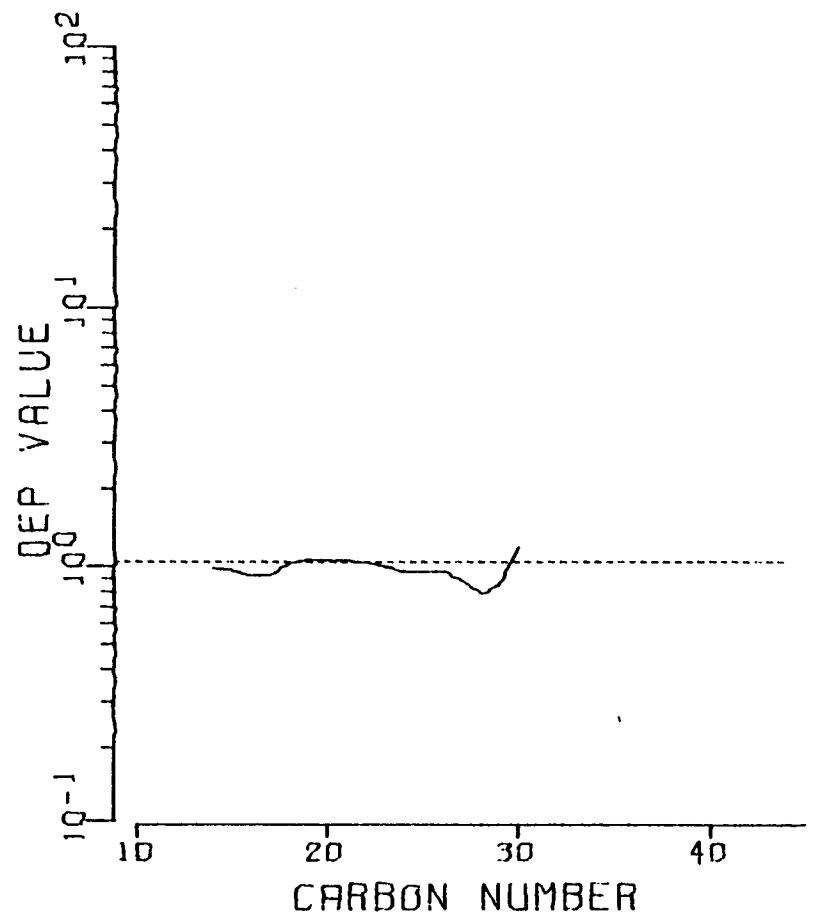
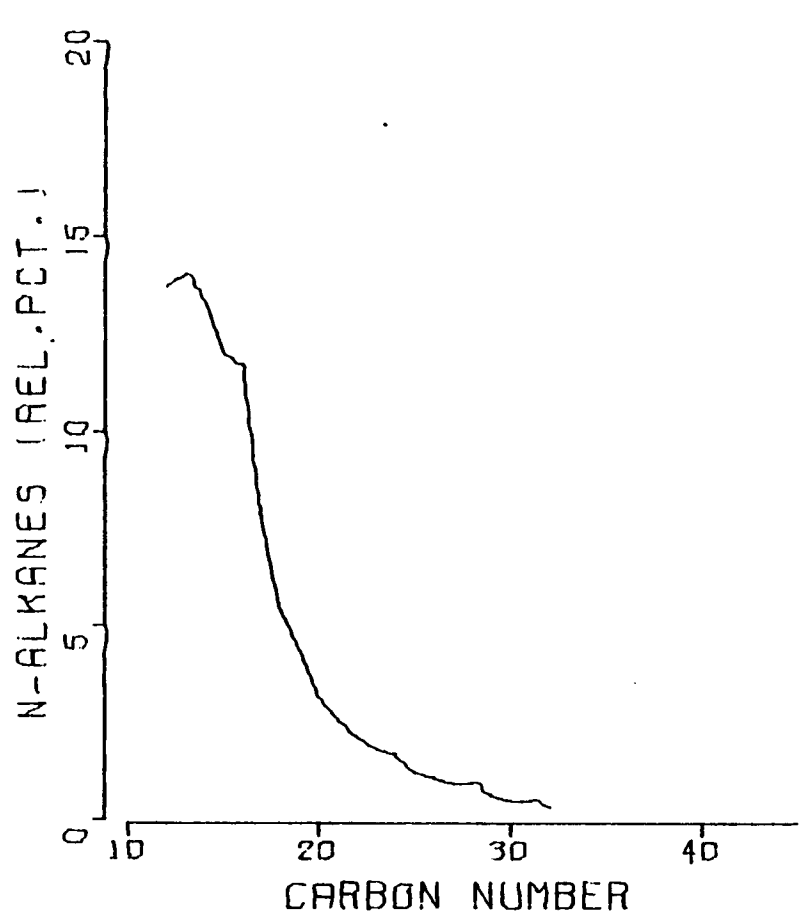
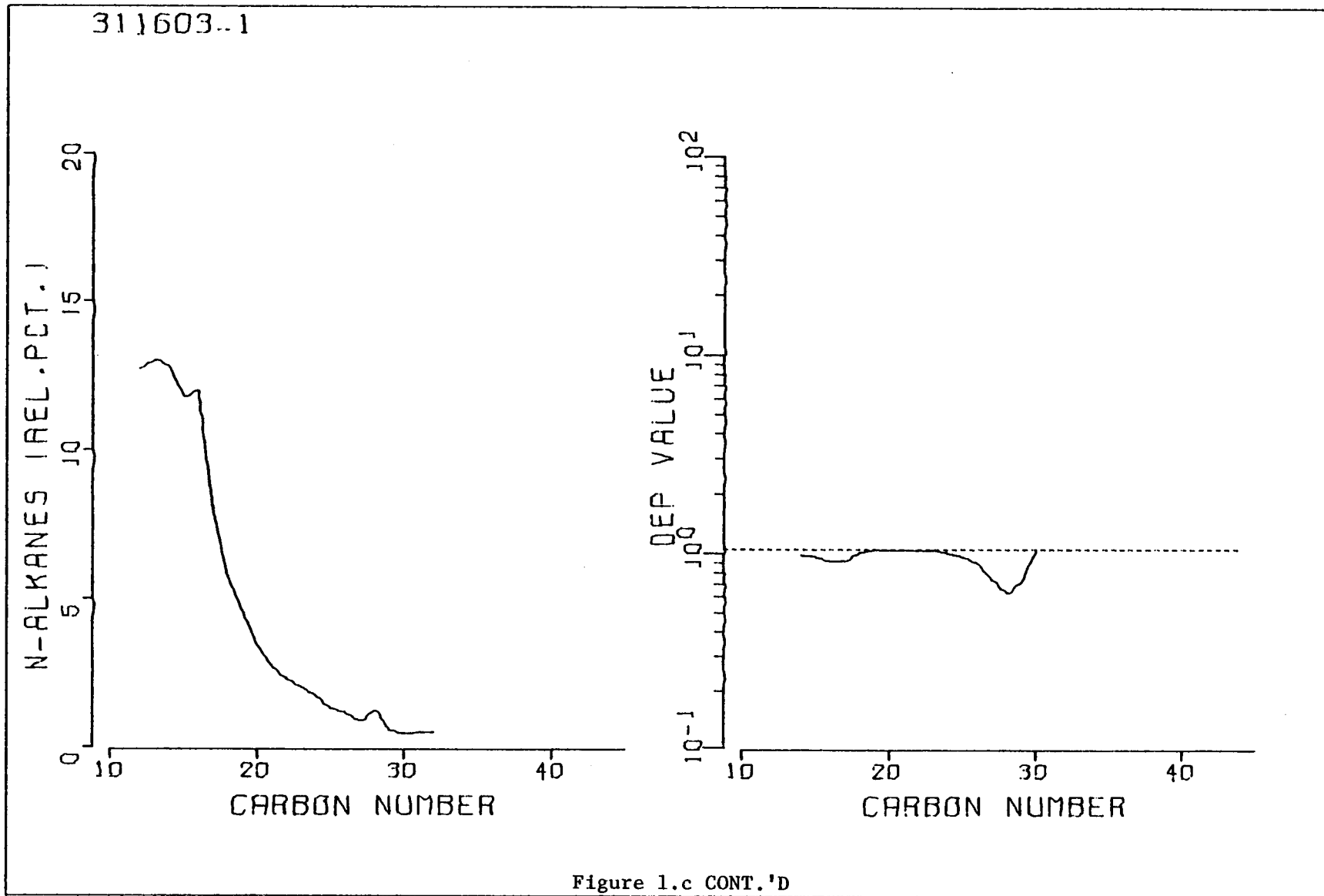


Figure 1.c CONT. 'D



312427-1

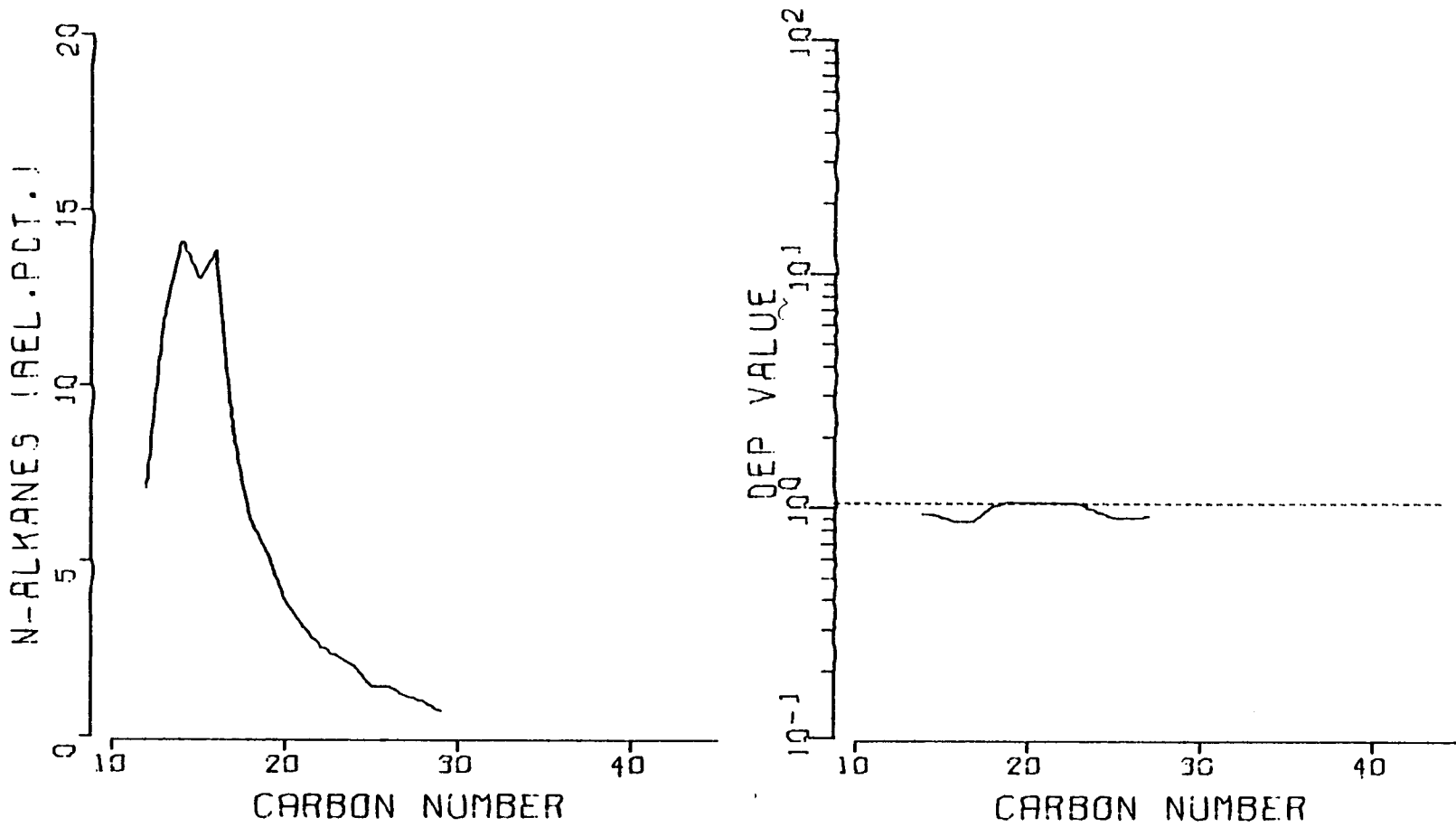
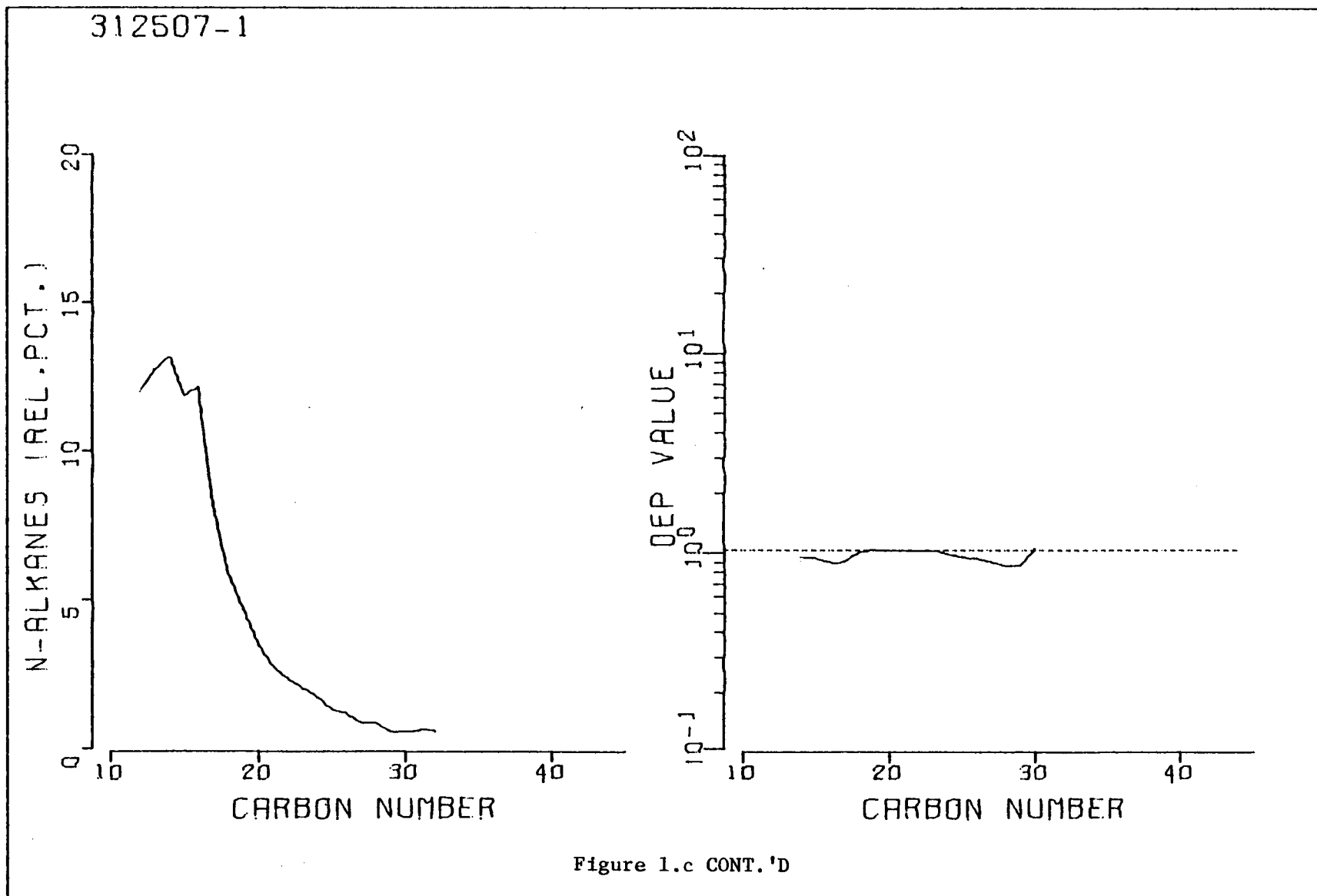


Figure 1.c CONT.'D



312520-1

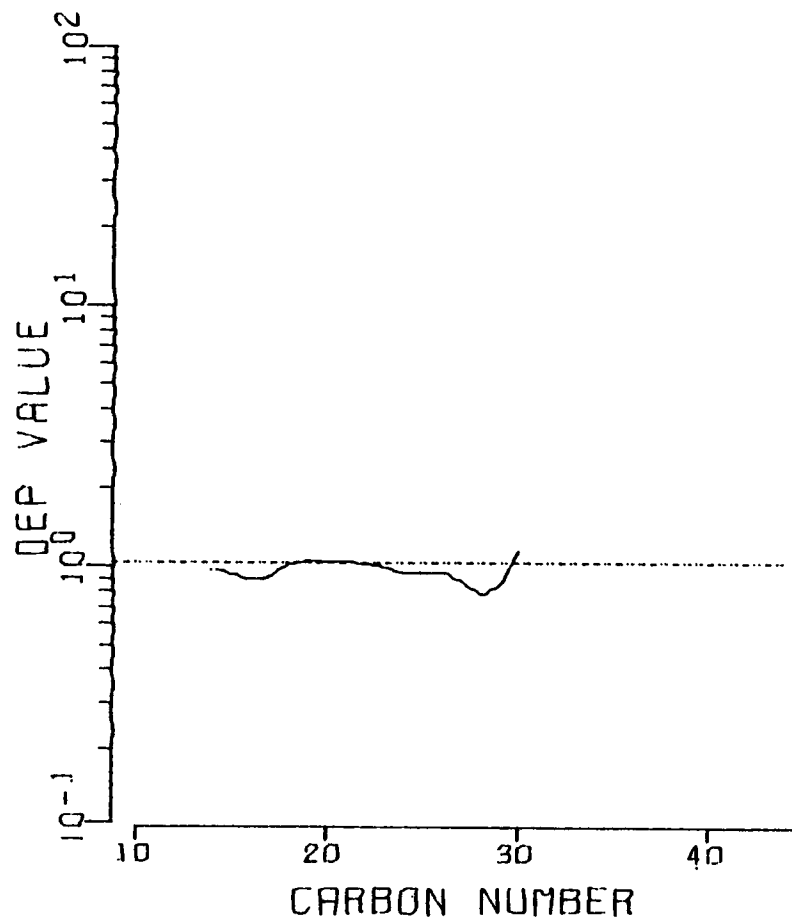
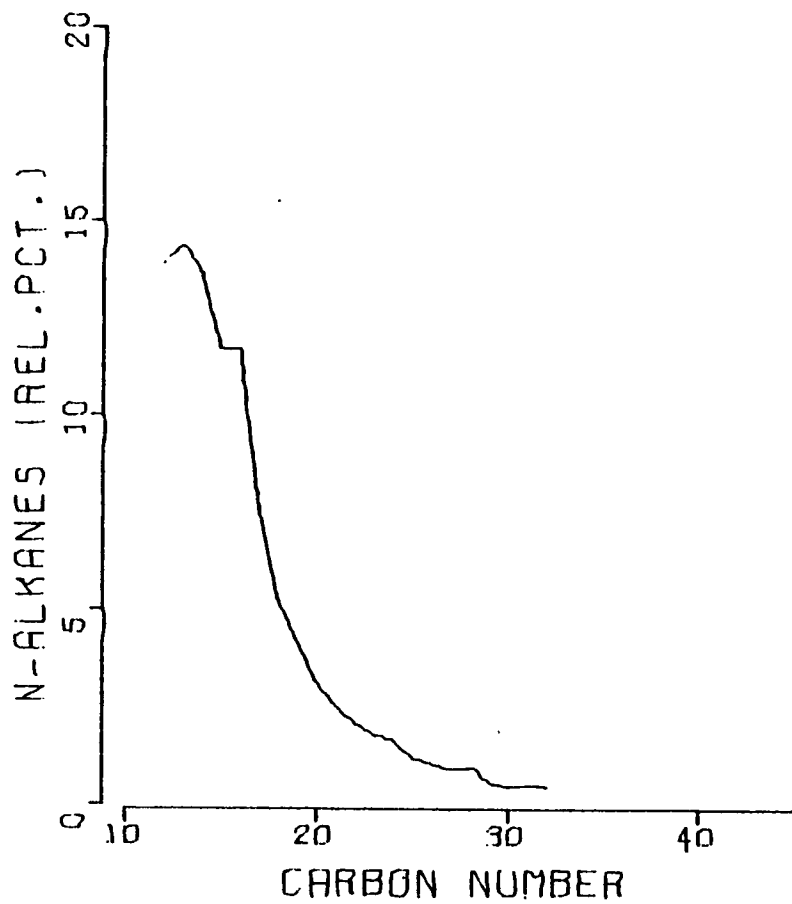
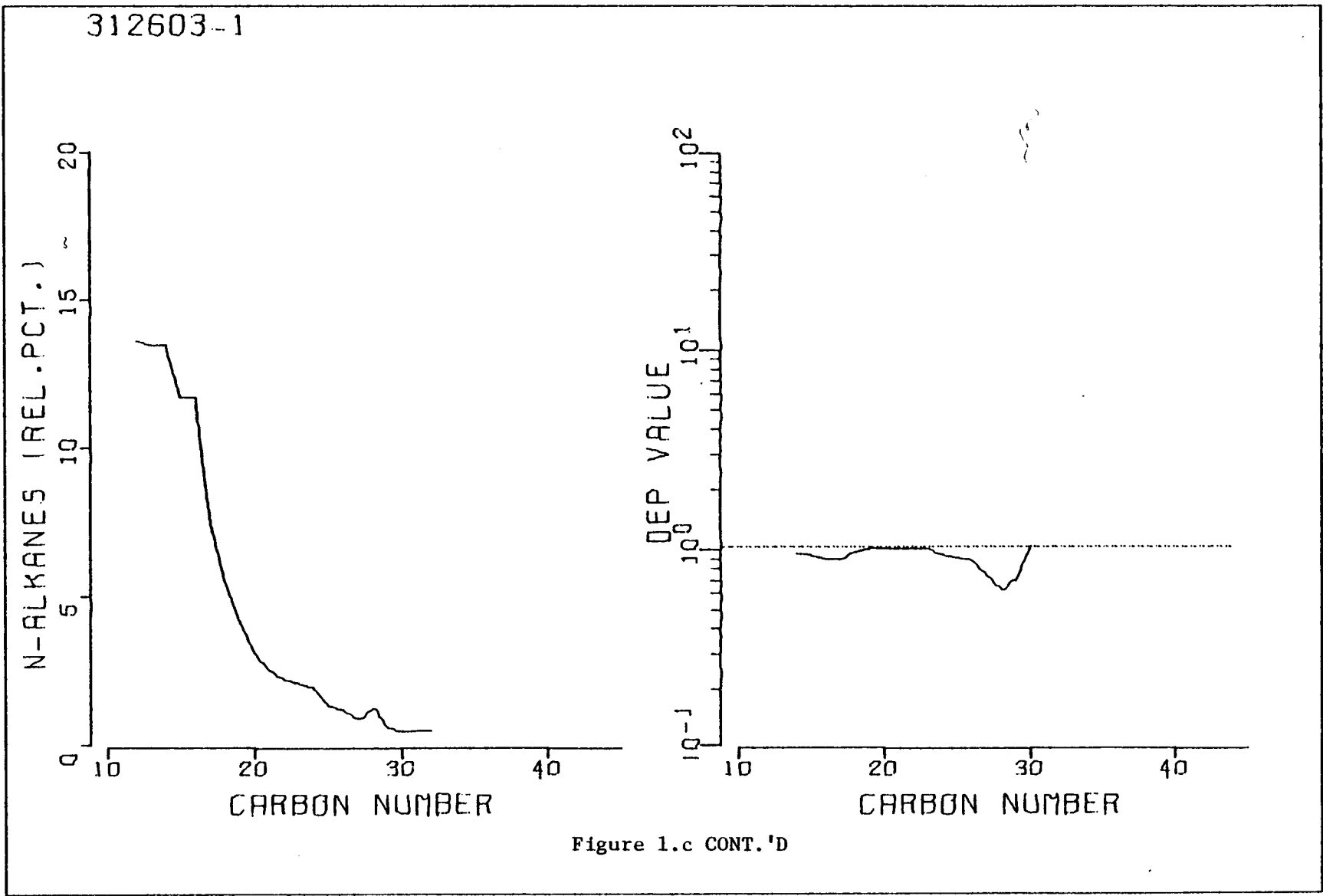


Figure 1.c CONT.'D



321507-1

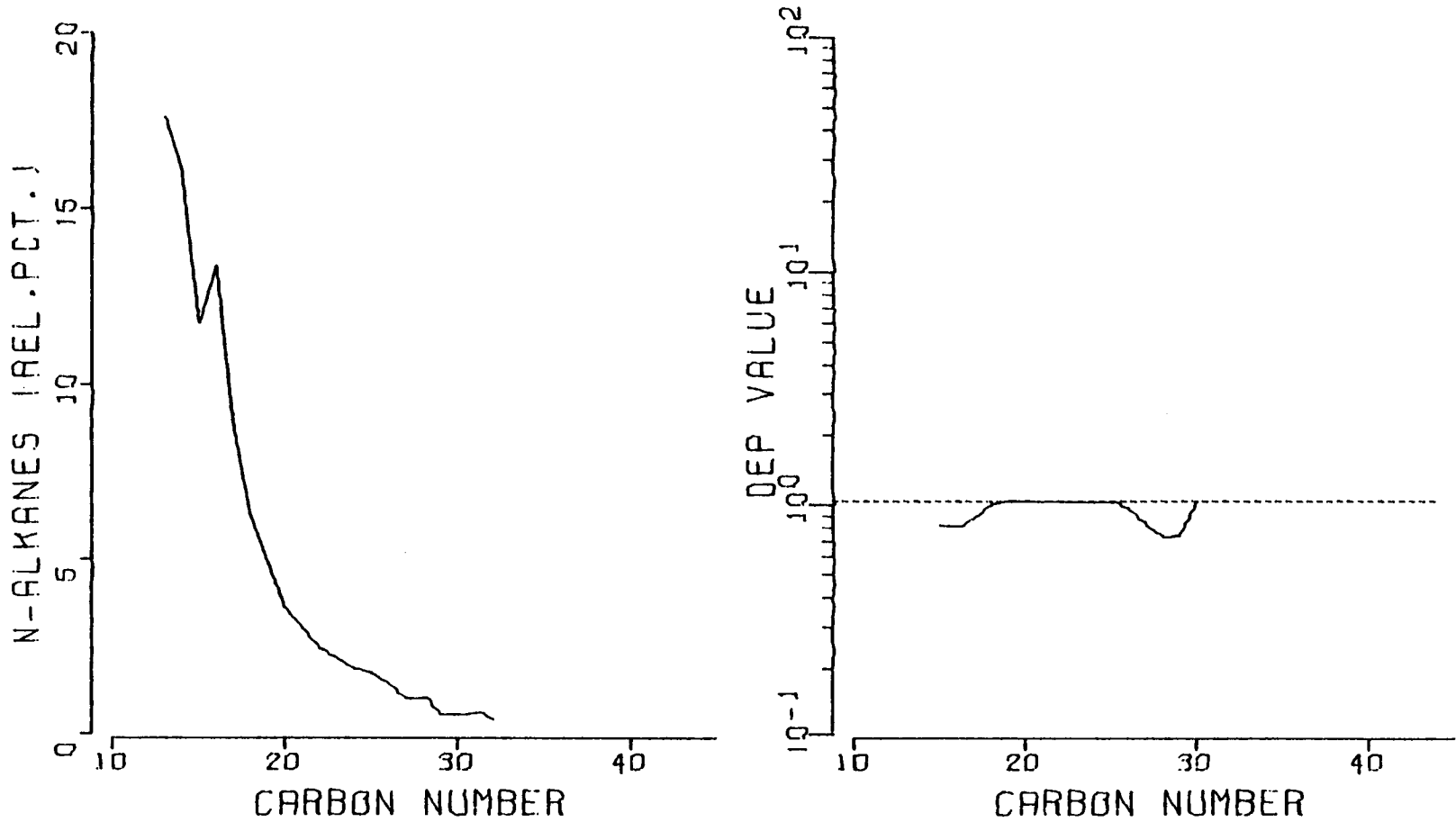
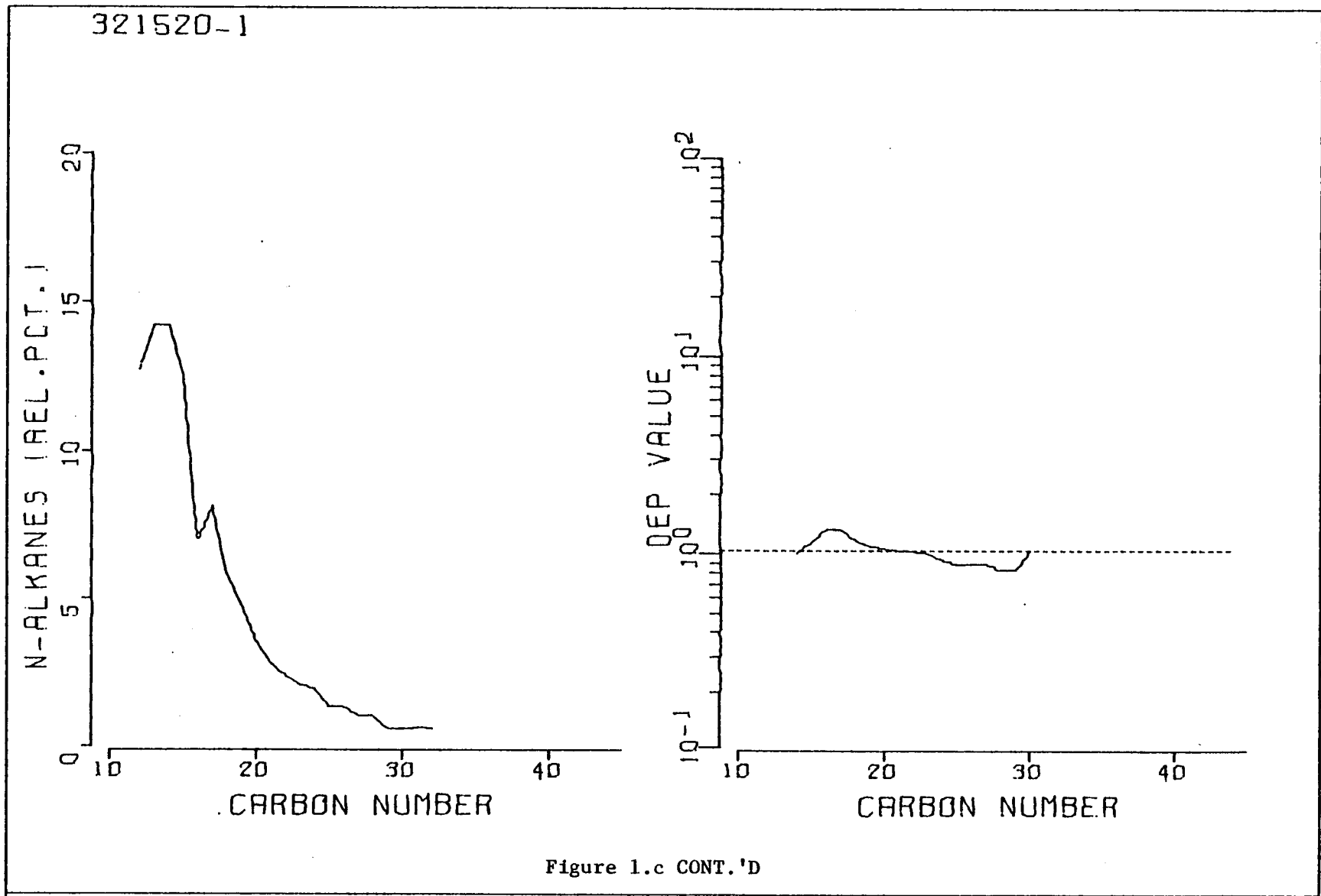


Figure 1.c CONT.'D



321603-1

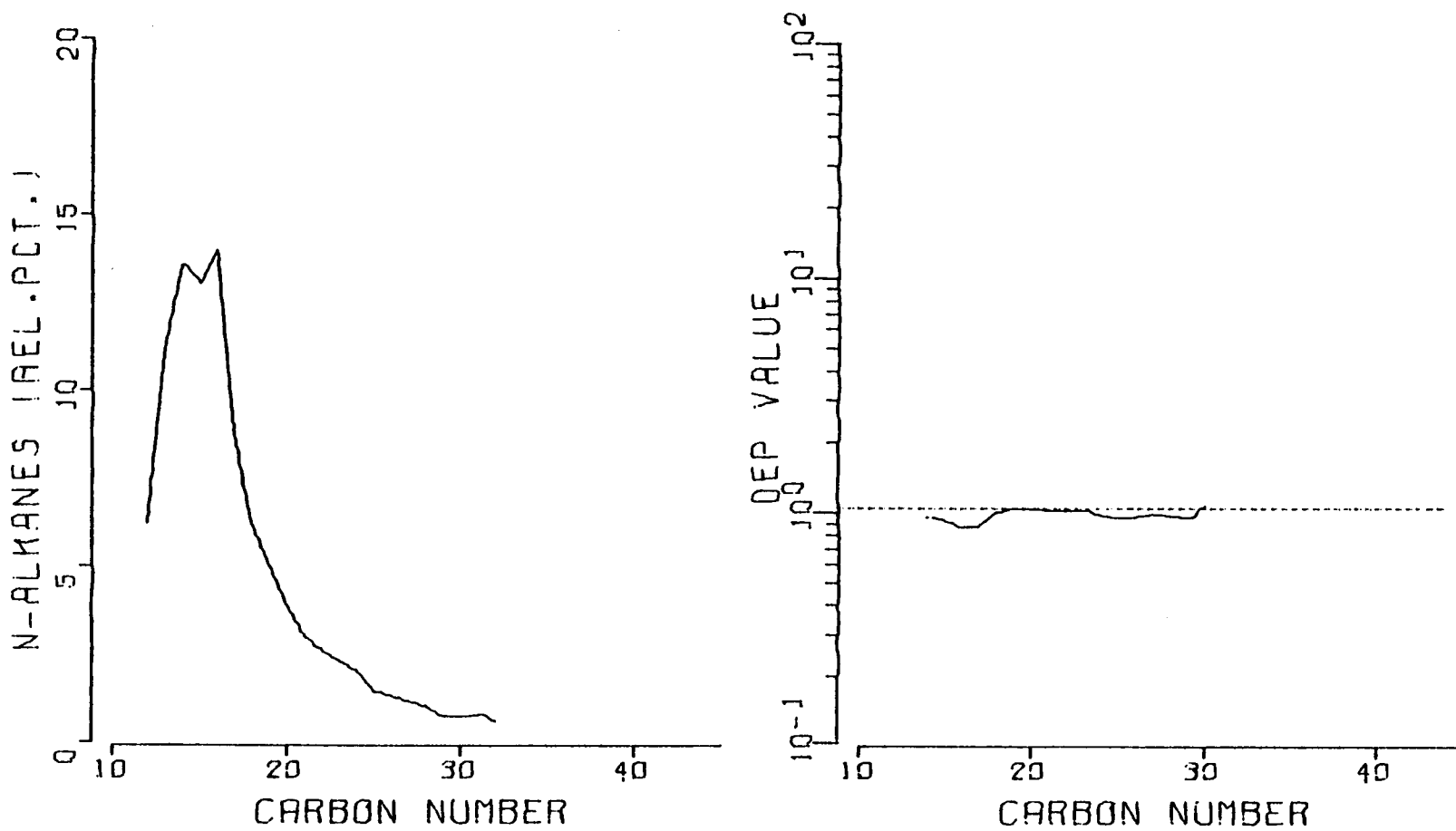


Figure 1.c CONT.'D

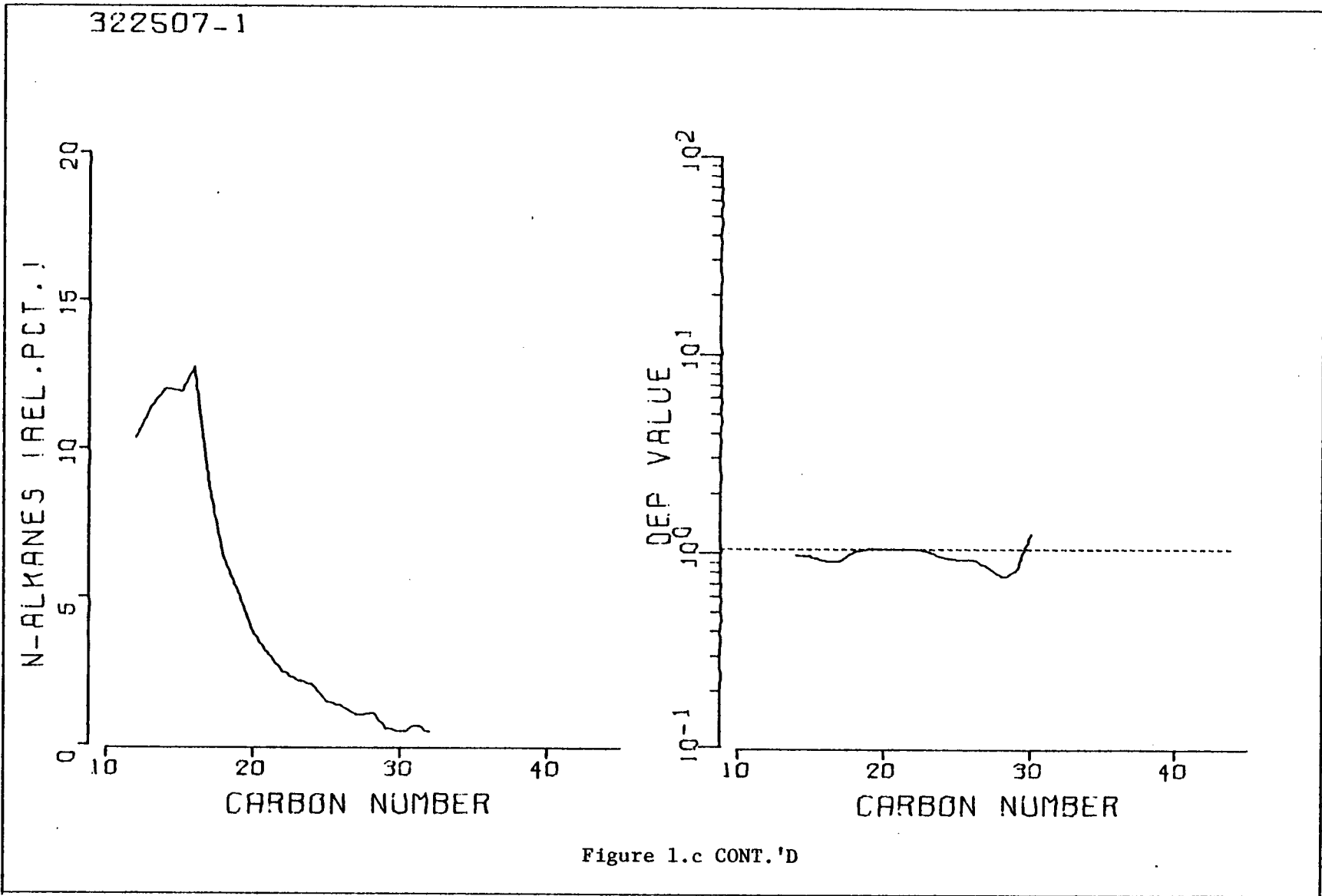


Figure 1.c CONT.'D

322520-1

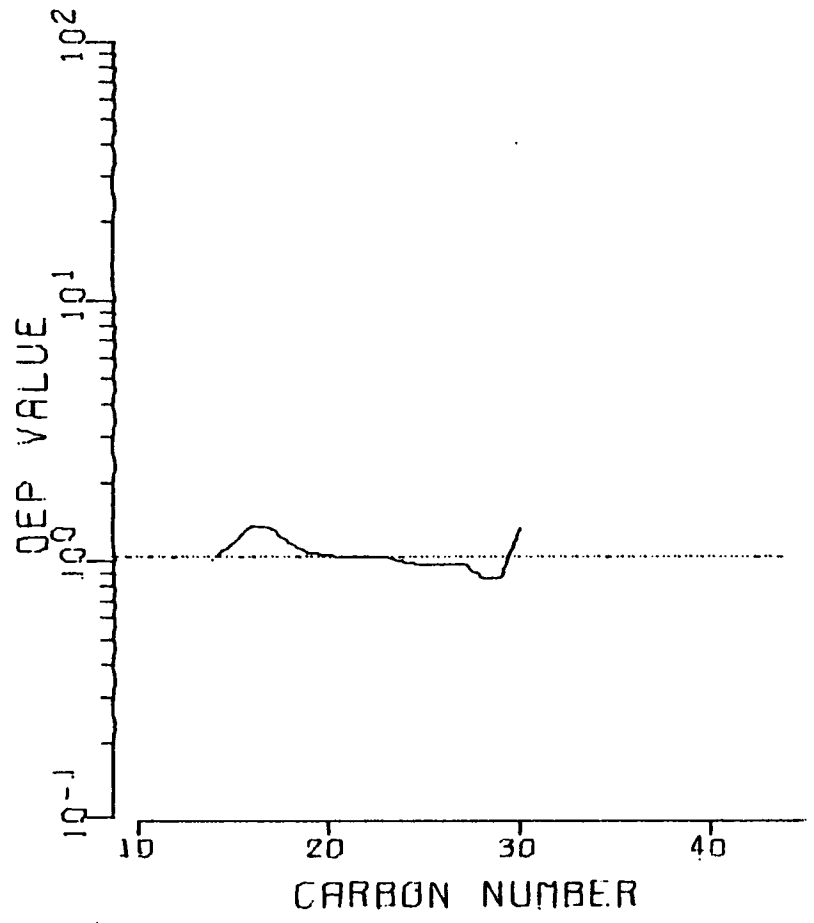
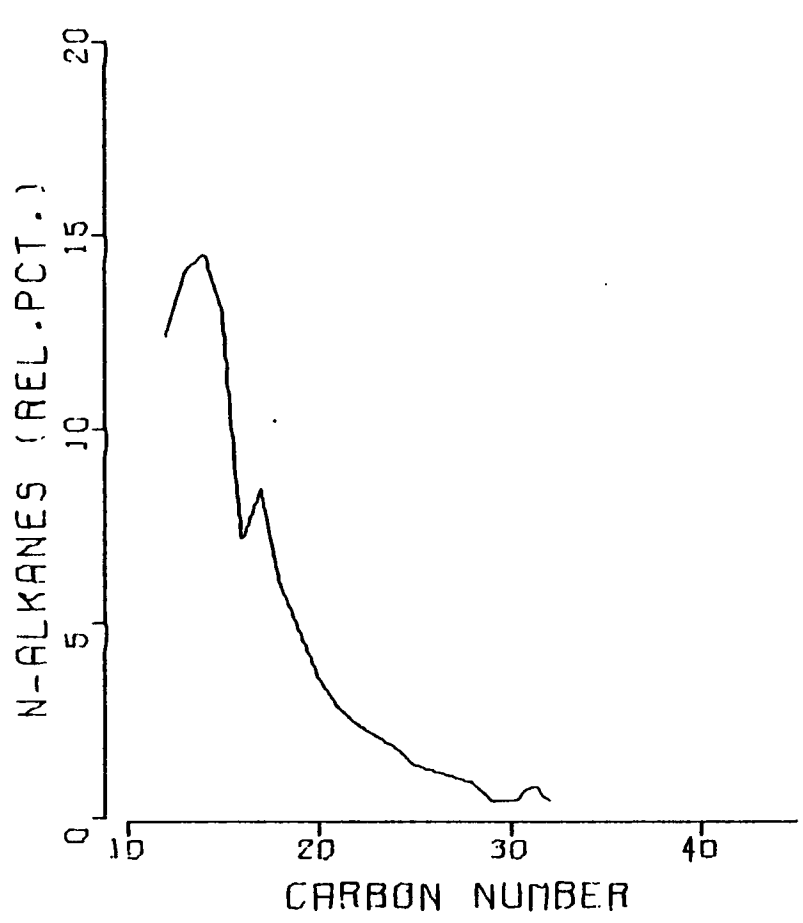


Figure 1.c CONT. 'D

331507-1

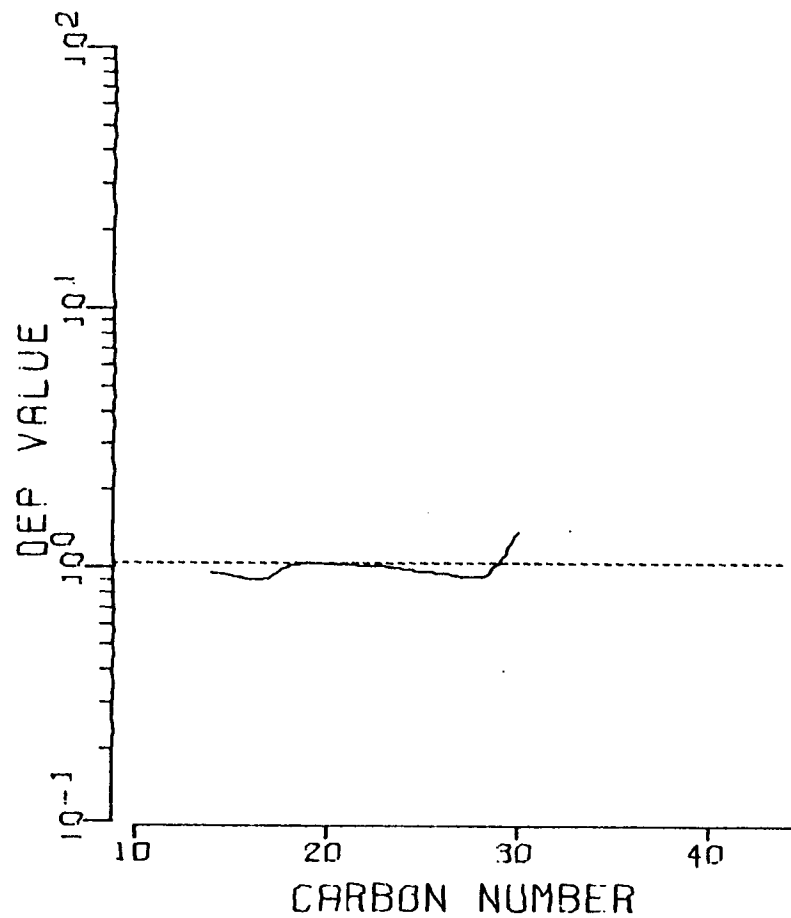
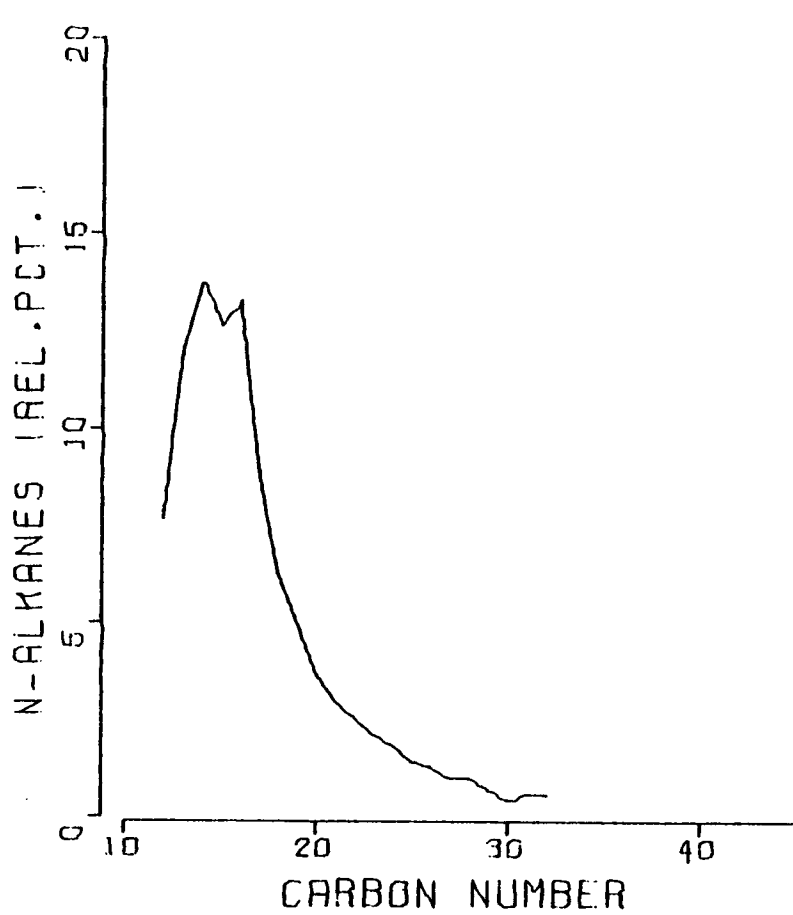
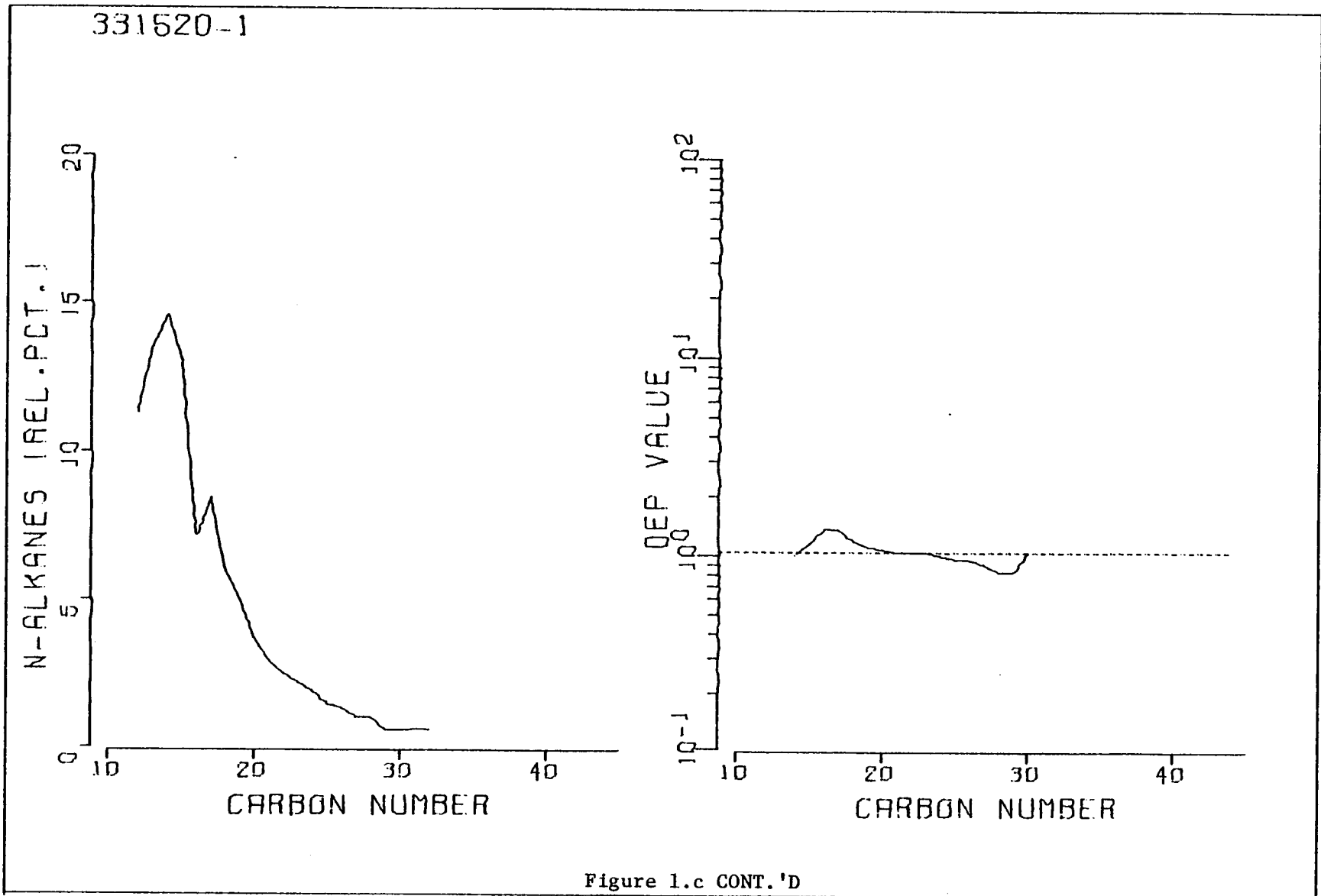


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331603..1

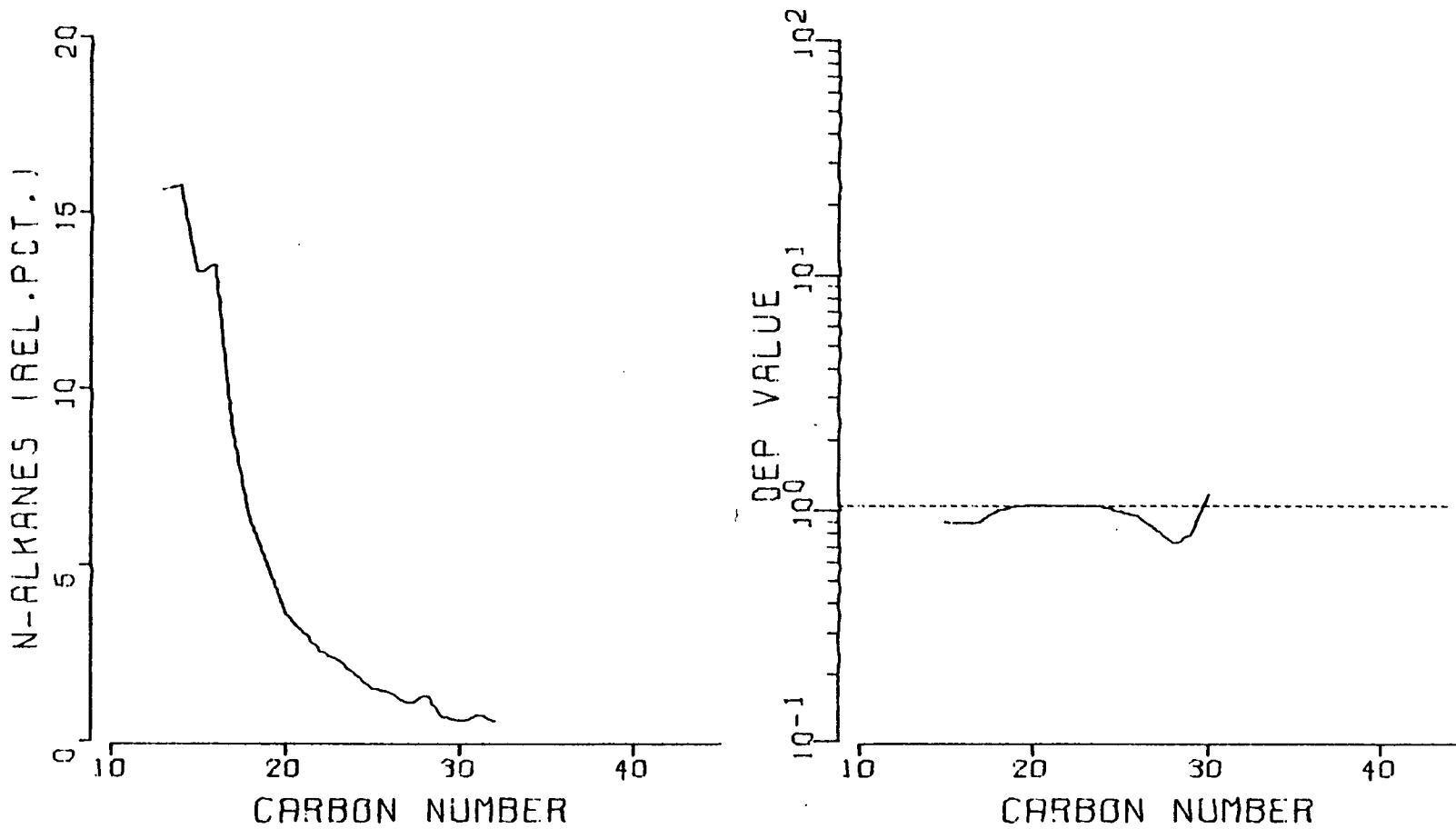
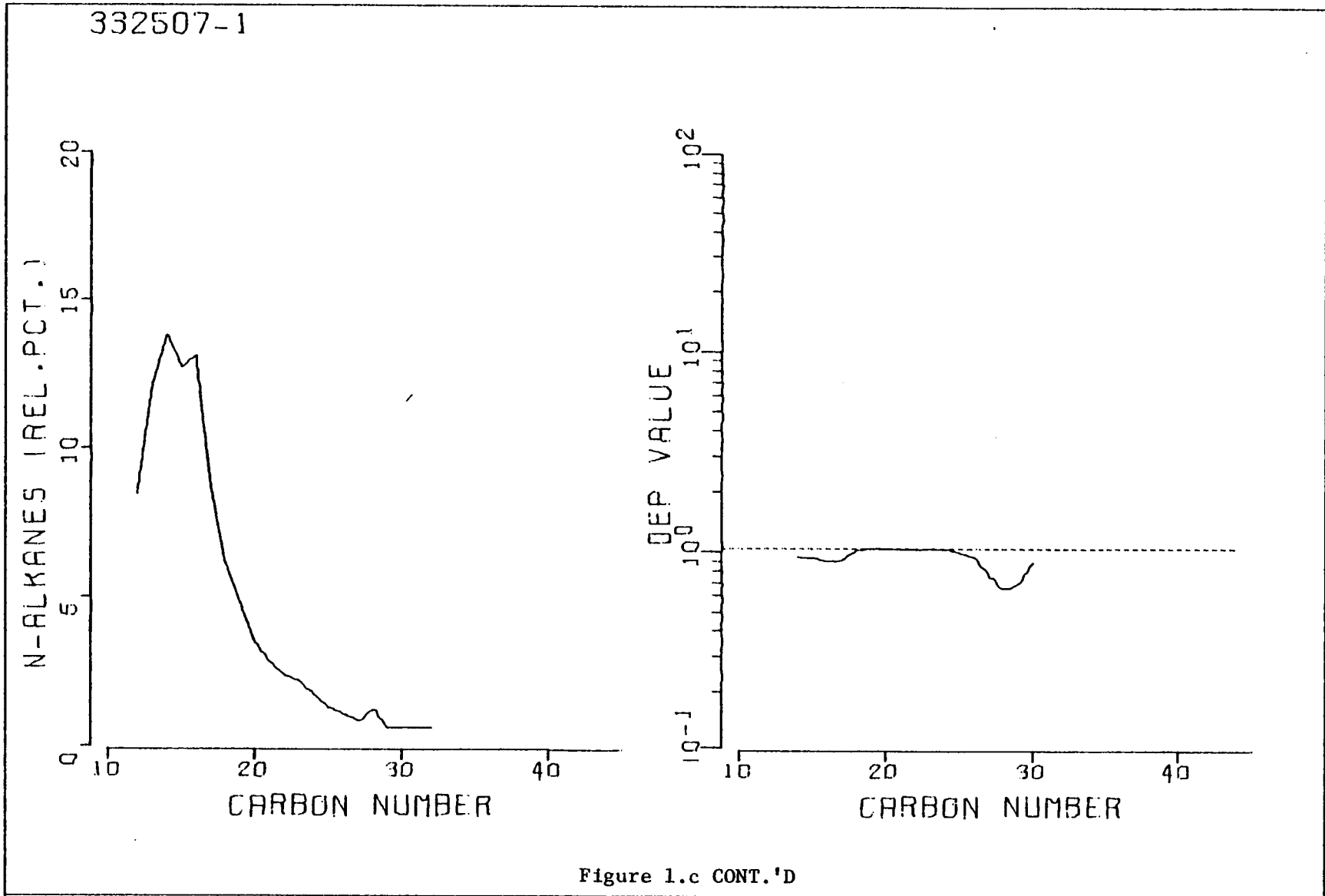


Figure 1.c CONT.'D



332520-1

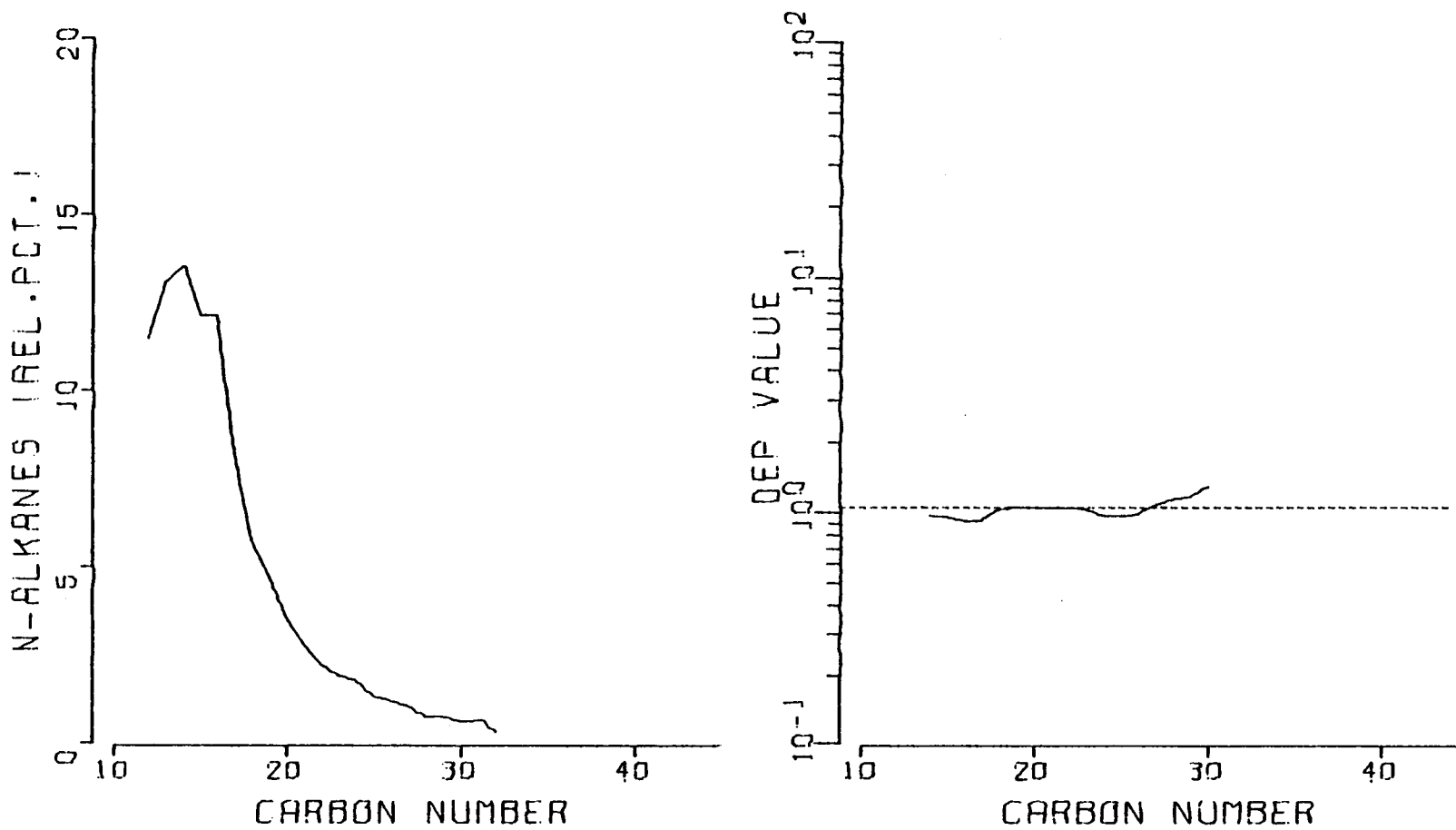


Figure 1.c CONT.'D

332603--1

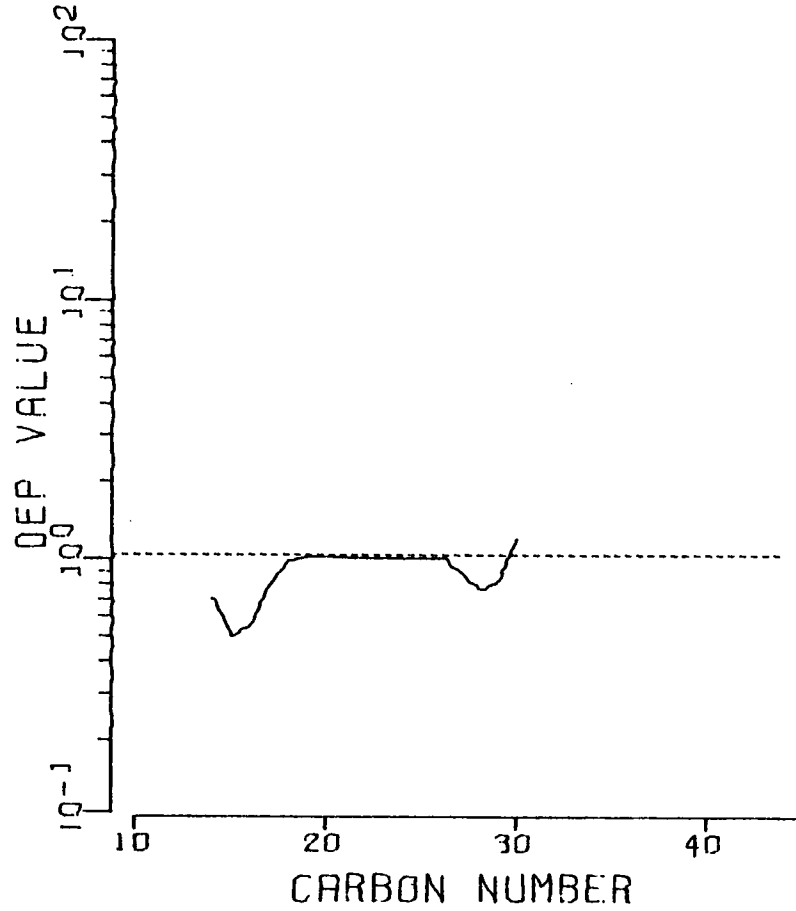
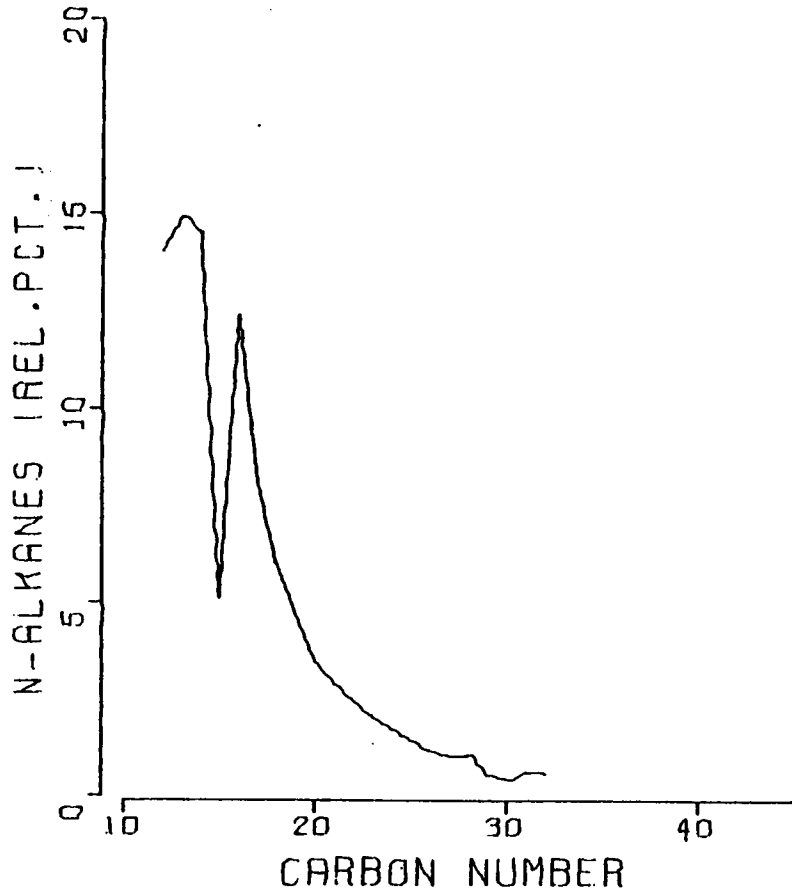


Figure 1.c CONT.'D

APPENDIX H

WATER COLUMN AND BENTHIC MICROBIOLOGY: MYCOLOGY

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TABLE 1

FUNGAL DENSITIES¹ AND RATIO OF
HYDROCARBONOCLASTIC FUNGI² TO TOTAL
FUNGI³ IN STOCS NEAR SURFACE WATERS

| Month | Station | | | | | | Monthly Mean | |
|-----------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| | 1/II | | 2/II | | 3/II | | CFU/ml | HF/TF |
| | CFU/ml | HF/TF | CFU/ml | HF/TF | CFU/ml | HF/TF | | |
| March | 8.97 | - | 8.40×10^1 | - | 5.9×10^1 | - | 5.0×10^1 | - |
| April | 1.3×10^1 | 0 | 2.3×10^1 | 4.4×10^{-2} | 1.3×10^1 | 7.7×10^{-2} | 1.6×10^1 | 4.0×10^{-2} |
| July | 1.0×10^{-3} | 0 | 8.0×10^{-3} | 3.8×10^{-2} | 3.0×10^{-2} | 7.0×10^{-1} | 1.3×10^{-2} | 3.6×10^{-1} |
| August | 7.0×10^{-3} | 0 | 3.0×10^{-3} | 0 | 2×10^{-3} | 5.0×10^{-1} | 4.0×10^{-3} | 1.67×10^{-1} |
| November | 3.8×10^{-2} | 5.3×10^{-2} | 4.0×10^{-3} | 5.0×10^{-1} | 1.5×10^{-2} | 6.0×10^{-1} | 2.1×10^{-2} | 3.8×10^{-1} |
| December | 5.0×10^{-3} | 4.0×10^{-1} | 5.0×10^{-3} | 6.0×10^{-1} | 3.0×10^{-3} | 6.7×10^{-1} | 4.0×10^{-3} | 5.6×10^{-1} |
| Station Mean | 1.3×10^{-2} | 9.1×10^{-2} | 5.0×10^{-3} | 3.0×10^{-1} | 1.3×10^{-2} | 5.1×10^{-1} | | |

¹Colony-forming units/ml.

²HF enumeration on hydrocarbonoclastic-selective Silica-gel oil medium.

³TF enumeration on non-selective Mycological Agar medium.

TABLE 2

FUNGAL DENSITIES¹ AND RATIOS OF
HYDROCARBONOCLASTIC FUNGI² TO
TOTAL FUNGI³ IN STOCS SURFICIAL SEDIMENTS

| Station | Season | | | | | | Station Mean | |
|----------------|-------------------|-------|-------------------|----------------------|-------------------|----------------------|-------------------|----------------------|
| | Winter | | Spring | | Fall | | CFU/ml | HF/TF |
| | CFU/ml | HF/TF | CFU/ml | HF/TF | CFU/ml | HF/TF | | |
| 3/I | 5.0 | - | 3.5×10^2 | 1.4×10^{-1} | 1.6×10^2 | 1.2 | 1.7×10^2 | 6.7×10^{-1} |
| 1/II | 1.1×10^2 | - | 3.3×10^1 | 8.5×10^{-1} | 2.0×10^2 | 1.7 | 1.1×10^2 | 1.3 |
| 2/II | 1.1×10^1 | - | 2.0×10^1 | 2.9 | 9.1×10^2 | 5.0×10^{-1} | 3.1×10^2 | 1.7 |
| 3/II | 2.1×10^1 | - | 1.5×10^1 | 8.0×10^{-1} | 1.6×10^3 | 5.8×10^{-1} | 5.4×10^2 | 6.9×10^{-1} |
| 2/III | 1.2×10^1 | - | 8.3×10^1 | 1.2×10^{-1} | 4.5×10^2 | 9.5×10^{-1} | 1.8×10^2 | 5.3×10^{-1} |
| 1/IV | 1.6×10^1 | - | 3.0×10^1 | 6.7×10^{-1} | 2.0×10^2 | 1.5 | 8.3×10^1 | 1.7 |
| Season Mean | 2.9×10^1 | | 8.9×10^1 | 9.1×10^1 | 5.9×10^2 | 1.1 | | |

¹Colony forming units/ml.

²HF--Enumeration on hydrocarbonoclastic-selective Silica-Gel oil medium.

³TF--Enumeration on non-selective Mycological Agar medium.

TABLE 3

FUNGAL GENERA ISOLATED FROM STOCS
1977 BENTHIC AND WATER COLUMN SAMPLES

| TAXONOMIC UNIT | BENTHIC | | | | WATER COLUMN | | | |
|--------------------------|-----------------|------------------|---------|------------------|--------------|-----|---------|-------------|
| | Enumeration | | Rate | Degradation | Enumeration | | Rate | Degradation |
| | MA ^a | SGO ^b | Control | Oil ^c | MA | SGO | Control | Oil |
| DEUTEROMYCOTA | | | | | | | | |
| Hyphomycetes | | | | | | | | |
| Dematiaceae | | | | | | | | |
| <i>Alliobacteriella</i> | 0 ^d | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| <i>Alternaria</i> | 1 | 0 | 0 | 1 | 2 | 3 | 0 | 2 |
| <i>Arthrrium</i> | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| <i>Aureobasidium</i> | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 3 |
| <i>Cladosporium</i> | 11 | 3 | 6 | 8 | 6 | 3 | 5 | 9 |
| <i>Curvularia</i> | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 |
| <i>Drechslera</i> | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 1 |
| <i>Graphium</i> | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| <i>Hemicolea</i> | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| <i>Monodictys</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| <i>Neckulosporium</i> | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| <i>Periconia</i> | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| <i>Scopulariopsis</i> | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| <i>Stachybotrys</i> | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| <i>Trichocladium</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| <i>Zalerion</i> | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Moniliaceae | | | | | | | | |
| <i>Aspergillus</i> | 11 | 4 | 5 | 13 | 3 | 2 | 7 | 9 |
| <i>Cephalosporium</i> | 4 | 1 | 5 | 11 | 0 | 0 | 0 | 0 |
| <i>Chrysosporium</i> | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>Diheterospora</i> | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| <i>Fusarium</i> | 4 | 5 | 10 | 13 | 0 | 2 | 4 | 6 |
| <i>Geotrichum</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| <i>Paeciliomyces</i> | 2 | 1 | 2 | 4 | 1 | 0 | 4 | 3 |
| <i>Penicillium</i> | 16 | 10 | 6 | 10 | 12 | 1 | 7 | 10 |
| <i>Trichoderma</i> | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>Cf. Varicosporium</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| <i>Verticillium</i> | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Coelomycetes | | | | | | | | |
| Sphaerioidaceae | | | | | | | | |
| <i>Coniothyrium</i> | 1 | 0 | 0 | 4 | 1 | 0 | 0 | 1 |
| <i>Peyronellaea</i> | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| <i>Phoma</i> | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 |
| Malanconiaceae | | | | | | | | |
| <i>Pestalotia</i> | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 1 |
| Blastomycetes | | | | | | | | |
| Cryptococcaceae | | | | | | | | |
| <i>Candida</i> | 3 | 0 | 1 | 3 | 6 | 1 | 3 | 4 |
| <i>Cryptococcus</i> | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>Rhodotorula</i> | 3 | 0 | 0 | 1 | 2 | 0 | 3 | 5 |
| <i>Torulopsis</i> | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| <i>Trichosporon</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| BASIDIOMYCOTA | | | | | | | | |
| Ustilaginaceae | | | | | | | | |
| <i>Rhodosporidium</i> | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ASCOMYCOTA | | | | | | | | |
| Plectosporaceae | | | | | | | | |
| <i>Sporoxmia</i> | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hypocreaceae | | | | | | | | |
| <i>Hypocrea</i> | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Melanosporaceae | | | | | | | | |
| <i>Cheecomium</i> | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Eurotiaceae | | | | | | | | |
| <i>Cf. Dichlaena</i> | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Saccharomycetaceae | | | | | | | | |
| <i>Saccharomyces</i> | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ZYCOMYCOTA | | | | | | | | |
| Syncephalastraceae | | | | | | | | |
| <i>Syncephalastrum</i> | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| Total Number of Samples | 18 | 12 | 18 | 18 | 18 | 15 | 18 | 18 |

^a Mycological Agar enumeration plates.^b Silica-gel Oil enumeration plates.^c Southern Louisiana Crude Oil 0.1X or 0.5X V/V^d Number of samples yielding each genus.

TABLE 4

INDICATOR RATIOS OF N-ALKANE BIODEGRADATION
IN S₁LCO¹-ENRICHED NATURAL MIXED FUNGAL CULTURES²

| Ratios | Station | | | Weathered Control | Inoculation (days) |
|-----------------------------|----------|--------|--------|-------------------|--------------------|
| | 1/II | 2/II | 3/II | | |
| | MARCH | | | | 20 |
| Pr/17 ^a | 0.838 | 0.809 | 0.691 | | |
| Ph/18 ^b | 0.419 | 0.429 | 0.402 | | |
| Σ16-32/Pr + Ph ^c | 5.361 | 5.517 | 5.650 | | |
| | APRIL | | | | 50 |
| Pr/17 | 0.653 | 0.597 | 0.587 | | |
| Ph/18 | 0.227 | 0.156 | 0.145 | | |
| Σ16-32/Pr + Ph | 8.233 | 9.938 | 9.832 | | |
| | JULY | | | | 40 |
| Pr/17 | 0.556 | 0.532 | 0.446 | 0.510 | |
| Ph/18 | 0.126 | 0.115 | 0.106 | 0.118 | |
| Σ16032/Pr + Ph | 9.728 | 10.326 | 11.302 | 12.727 | |
| | AUGUST | | | | 40 |
| Pr/17 | 0.531 | 0.522 | 0.531 | 0.515 | |
| Ph/18 | 0.125 | 0.108 | 0.113 | 0.109 | |
| Σ16-32/Pr + Ph | 12.563 | 10.580 | 10.665 | 13.478 | |
| | NOVEMBER | | | | 45 |
| Pr/17 | 0.631 | 0.625 | 0.632 | 0.622 | |
| Ph/18 | 0.326 | 0.323 | 0.325 | 0.331 | |
| Σ16-32/Pr + Ph | 8.944 | 8.412 | 8.568 | 9.594 | |
| | DECEMBER | | | | 45 |
| Pr/17 | 0.627 | 0.621 | 0.625 | 0.636 | |
| Ph/18 | 0.324 | 0.316 | 0.320 | 0.342 | |
| Σ16-32/Pr + Ph | 8.532 | 8.605 | 8.546 | 7.822 | |

¹ Southern Louisiana Crude Oil 0.5% (v/v); shake cultures.

² Established with samples of near surface water.

^a Pristane/*n*-C₁₇

^b Phytane/*n*-C₁₈

^c Σ*n*-C₁₆₋₃₂/Pr + Ph

TABLE 5
 INDICATOR RATIOS OF N-ALKANE BIODEGRADATION
 IN SLCO¹ ENRICHED NATURAL MIXED FUNGAL CULTURES²

| Ratio | Station | | | | | | Weathered Control | Incubation (days) |
|-----------------------------|---------|---------------------|--------|-------|-------|--------|-------------------|-------------------|
| | 3/I | 1/II | 2/II | 3/II | 2/III | 1/IV | | |
| | | | WINTER | | | | | 20 |
| Pr/17 ^a | 0.980 | 1.004 | 1.051 | 0.886 | 1.161 | 1.002 | | |
| Ph/18 ^b | 0.483 | 0.478 | 0.515 | 0.462 | 0.501 | 0.559 | | |
| Σ16-32/Pr + Ph ^c | 4.726 | 4.676 | 4.964 | 4.806 | 4.396 | 4.763 | | |
| | | | SPRING | | | | | 40 |
| Pr/17 | 0.692 | 1.428 | 1.081 | 0.731 | 1.274 | 1.491 | | |
| Ph/18 | 0.188 | 0.432 | 0.316 | 0.212 | 0.533 | 0.527 | | |
| Σ16-32/Pr + Ph | 7.165 | 4.386 | 9.157 | 7.410 | 3.624 | 4.116 | | |
| | | | FALL | | | | | 45 |
| Pr/17 | 0.622 | 0.000 ^d | 0.676 | 0.623 | 0.656 | 3.614 | 0.640 | |
| Ph/18 | 0.328 | 0.338 | 0.364 | 0.327 | 0.345 | 1.698 | 0.298 | |
| Σ16-32/Pr + Ph | 7.836 | 26.317 ^d | 7.143 | 7.250 | 9.783 | 1.117 | 8.552 | |
| Pr/17 ^e | 0.628 | 1.066 | 0.938 | 0.631 | 1.414 | 26.390 | 0.626 | |
| Ph/18 ^e | 0.301 | 0.463 | 0.494 | 0.324 | 0.674 | 4.569 | 0.296 | |
| Σ16-32/Pr + Ph ^e | 8.214 | 6.366 | 5.143 | 8.360 | 4.535 | 0.597 | 9.599 | |

¹Southern Louisiana Crude Oil (SLCO) at 0.5% final concentration in shake cultures of sediment diluted 1:5 (v/v) artificial seawater.

²Established with benthic sediment samples.

^a Pristane/*n*-C₁₇

^b Phytane/*n*-C₁₈

^c Σ*n*-C₁₆₋₃₂/Pr + Ph

^d Aberrant data: Pristane value of 0.0000.

^e 0.1% SLCO

TABLE 6

VIABILITY¹ OF YEAST ISOLATES
IN PURE CULTURE IN THE PRESENCE
OF SLCO²

| Yeast | Medium | Days | | | | |
|-----------------------------|-----------------------------|------|--------|--------|--------|--------|
| | | 0 | 5 | 10 | 20 | 30 |
| <i>Candida diddensii</i> | SLCO | 1.98 | 14.5 | 56.0 | 57.9 | 1.1 |
| | SLCO +N,P,Fe,Zn | 1.98 | 21.4 | 9.65 | 6.08 | 39.6 |
| | SLCO +N,P,Fe,Zn, glucose | 1.98 | 216.0 | 26.0 | 3.15 | 0.970 |
| <i>Cryptococcus albidus</i> | SLCO | 3.82 | 0.0017 | 0.0043 | 0.0039 | <0.001 |
| | SLCO +N,P,Fe,Zn | 3.82 | 0.0163 | 0.0080 | 0.250 | <0.001 |
| | SLCO +N,P,Fe,Zn, glucose | 3.82 | 417.0 | 111.0 | 17.9 | 10.7 |

¹Expressed as colony-forming units x 10⁴/ml.

²Southern Louisiana crude oil 0.1% (v/v).

TABLE 7

POPULATION DENSITIES¹ IN NATURAL
MIXED CULTURES²

| Sta./Trans. | Oil Content ^a | Month | Days | | |
|-------------|-----------------------------|----------|------------------------|------------------------|------------------------|
| | | | 15 | 30 | 45 |
| 1/II | + | November | 3.58 x 10 ⁴ | 5.43 x 10 ⁴ | 5.65 x 10 ⁴ |
| | - | | 5.25 x 10 ⁴ | 5.60 x 10 ⁴ | 7.35 x 10 ⁴ |
| | + | December | 5.07 x 10 ² | 1.73 x 10 ⁴ | 4.69 x 10 ⁴ |
| | - | | 3.54 x 10 ¹ | 0.00 | 0.00 |
| 2/II | + | November | 1.75 x 10 ¹ | 1.67 | 5.70 x 10 ¹ |
| | - | | 2.08 x 10 ¹ | 0.00 | 1.00 x 10 ² |
| | + | December | 2.62 x 10 ¹ | 1.86 x 10 ³ | 1.58 x 10 ² |
| | - | | 0.00 | 7.75 x 10 ¹ | 0.00 |
| 3/II | + | November | 1.57 x 10 ¹ | 8.58 x 10 ³ | 1.11 x 10 ⁴ |
| | - | | 0.00 | 9.50 x 10 ³ | 0.00 |
| | + | December | 1.67 | 3.33 | 0.00 |
| | - | | 5.00 | 7.25 x 10 ¹ | 0.00 |

¹Colony-forming units/ml.

²Cultures established with STOCS near-surface waters collected in November and December.

^aEnriched with South Louisiana crude oil at 0.5% (v/v)

TABLE 8

EFFECT OF SOUTHERN LOUISIANA CRUDE
OIL ON GROWTH OF STOCS MYCOTA¹

| Genus | Number of Isolates in Each Response Class | | | | | | | | | No. Isolates Tested |
|-------------------------|---|--------------------------------|-----|------------------|-----|-----|-----|-----|-----|---------------------------|
| | G/ ^a G | G ^b /g ^c | g/G | G/- ^d | -/G | g/g | g/- | -/g | -/- | |
| <i>Penicillium</i> | 24 | 4 | 12 | | 2 | 8 | | 4 | 21 | 75 |
| <i>Aspergillus</i> | 11 | 1 | 4 | | 3 | 6 | 1 | 11 | 33 | 70 |
| <i>Fusarium</i> | | 1 | 2 | | 1 | 10 | 6 | 11 | 32 | 63 |
| <i>Cladosporium</i> | | | 1 | | 1 | 5 | 2 | 6 | 36 | 51 |
| <i>Candida</i> | 19 | 11 | | 1 | 1 | 7 | | | 4 | 43 |
| <i>Cephalosporium</i> | 1 | | 3 | | 1 | 1 | 1 | 3 | 16 | 26 |
| <i>Rhodotorula</i> | 3 | | 2 | | 1 | 5 | 3 | 3 | 4 | 21 |
| <i>Paecilomyces</i> | 4 | | | | 2 | 2 | | 4 | 7 | 19 |
| <i>Alternaria</i> | 1 | 2 | | | 1 | 3 | 1 | 1 | 2 | 11 |
| <i>Aureobasidium</i> | | | | | | 2 | 2 | 1 | 5 | 10 |
| <i>Coniothyrium</i> | | | 2 | | | | | 3 | 3 | 8 |
| <i>Drechslera</i> | 1 | | 1 | | | 1 | | 1 | 4 | 8 |
| <i>Scopulariopsis</i> | | | 1 | | 1 | 3 | 1 | | 2 | 8 |
| Black yeast | 2 | | | 1 | | | | | 3 | 6 |
| <i>Curvularia</i> | 1 | | 1 | | | | | 2 | 2 | 6 |
| <i>Pestalotia</i> | | | | | | 1 | 2 | | 3 | 6 |
| <i>Stachybotrys</i> | | | 1 | | 1 | | | 1 | 2 | 5 |
| <i>Verticillium</i> | 3 | | 1 | | | | | | 1 | 5 |
| <i>Phoma</i> | | | | | | | | 1 | 3 | 4 |
| <i>Torulopsis</i> | | | | 1 | | | 1 | 2 | | 4 |
| <i>Chaetomium</i> | | | | | | 1 | | 1 | | 2 |
| <i>Geotrichum</i> | | | | | 1 | | | 1 | | 2 |
| <i>Nodulosporium</i> | 1 | | | | 1 | | | | 1 | 2 |
| <i>Sporormia</i> | | | 1 | | 1 | | | | | 2 |
| <i>Trichoderma</i> | | | | | | | | 1 | 1 | 2 |
| <i>Variosporina</i> | | | | | | | 1 | | 1 | 2 |
| <i>Allescheriella</i> | | | | | | | | 1 | | 1 |
| <i>Arthrinium</i> | | | | | | 1 | | | | 1 |
| <i>Chrysosporium</i> | | | | | | | | | 1 | 1 |
| <i>Cryptococcus</i> | | 1 | | | | | | | | 1 |
| <i>Dichlaena</i> | 1 | | | | | | | | | 1 |
| <i>Diheterospora</i> | | | | 1 | | | | | | 1 |
| <i>Graphium</i> | | | | | | | 1 | | | 1 |
| <i>Helminthosporium</i> | | | | | | 1 | | | | 1 |
| <i>Humicola</i> | | | | | | 1 | | | | 1 |
| <i>Hypocrea</i> | | | | | | | | | 1 | 1 |
| <i>Periconia</i> | | | | | | | | | 1 | 1 |
| <i>Peyronellaea</i> | | | | | | | | 1 | | 1 |
| <i>Saccharomyces</i> | | | | | | 1 | | | | 1 |
| <i>Syncephalastrum</i> | | | | | | | | 1 | | 1 |
| <i>Trichocladium</i> | | | | | | | | | 1 | 1 |
| <i>Trichosporon</i> | | | | | | | | | 1 | 1 |
| <i>Zalerion</i> | | | | | | | | | 1 | 1 |

¹Oil added to cover one-half of silica-gel slope culture established in presence of limited glucose; growth scored after one month.

^aAbove oil surface/below oil surface

^bGood growth.

^cWeak growth.

^dNo growth.

APPENDIX I
BENTHIC BACTERIOLOGY

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TABLE 1

TOTAL SEDIMENT AEROBIC HETEROTROPHIC BACTERIA COLLECTED
 At Each Station During the Winter, Spring, and Fall.
 Values are Mean \pm 1 Standard Deviation

| Station/ Transect | Total aerobic heterotrophic bacteria/ml wet sediment ($\times 10^4$) | | |
|----------------------|--|------------------|------------------|
| | Winter | Spring | Fall |
| 1/I | 59.3 \pm 7.9 | 91.3 \pm 18.4 | 105.3 \pm 20.9 |
| 2/I | 48.2 \pm 11.3 | 64.2 \pm 30.2 | 36.3 \pm 10.3 |
| 3/I | 36.5 \pm 8.6 | 4.6 \pm 1.0 | 5.6 \pm 1.2 |
| 1/II | 55.8 \pm 15.4 | 131.3 \pm 16.4 | 40.2 \pm 6.6 |
| 2/II | 29.7 \pm 5.3 | 47.7 \pm 23.3 | 75.8 \pm 20.6 |
| 3/II | 5.7 \pm 1.2 | 5.3 \pm 0.9 | 27.0 \pm 8.9 |
| 1/III | 89.0 \pm 17.8 | 83.2 \pm 22.1 | 60.7 \pm 7.1 |
| 2/III | 30.8 \pm 4.0 | 40.2 \pm 9.8 | 71.0 \pm 13.6 |
| 3/III | 15.3 \pm 5.4 | 6.5 \pm 0.9 | 24.5 \pm 8.6 |
| 1/IV | 83.3 \pm 12.3 | 93.7 \pm 23.5 | 53.2 \pm 15.9 |
| 2/IV | 22.2 \pm 1.2 | 38.5 \pm 8.8 | 11.5 \pm 2.2 |
| 3/IV | 6.2 \pm 1.8 | 58.5 \pm 18.8 | 63.2 \pm 31.5 |

TABLE 2

NUMBER OF SEDIMENT HYDROCARBON DEGRADING BACTERIA COLLECTED
At Each Station During the Winter, Spring, and Fall.

| <u>Station/ Transect</u> | <u>Mean number of hydrocarbon degrading bacteria/ml wet sediment ($\times 10^3$)</u> | | |
|------------------------------|---|---------------|-------------|
| | <u>Winter</u> | <u>Spring</u> | <u>Fall</u> |
| 1/I | 9.10 | 13.0 | 25.0 |
| 2/I | 2.90 | 1.2 | 3.0 |
| 3/I | 3.50 | 0.13 | 1.3 |
| 1/II | 6.20 | 7.8 | 6.7 |
| 2/II | 0.31 | 0.84 | 78.0 |
| 3/II | 0.29 | 0.32 | 4.2 |
| 1/III | 1.40 | 1.80 | 17.0 |
| 2/III | 0.59 | 2.80 | 7.5 |
| 3/III | 1.40 | 0.15 | 1.6 |
| 1/IV | 6.00 | 3.40 | 110.0 |
| 2/IV | 0.22 | 1.10 | 13.0 |
| 3/IV | 0.08 | 4.30 | 14.0 |

TABLE 3

PERCENT SEDIMENT HYDROCARBON DEGRADING BACTERIA
 Collected at Each Station During the Winter, Spring, and Fall.

| <u>Station/ Transect</u> | <u>Percent hydrocarbon degrading bacteria</u> | | |
|------------------------------|---|---------------|-------------|
| | <u>Winter</u> | <u>Spring</u> | <u>Fall</u> |
| 1/I | 1.54 | 1.42 | 2.37 |
| 2/I | 0.60 | 0.19 | 0.83 |
| 3/I | 0.97 | 0.28 | 2.32 |
| 1/II | 1.11 | 0.59 | 1.67 |
| 2/II | 0.10 | 0.18 | 10.29 |
| 3/II | 0.52 | 0.60 | 1.56 |
| 1/III | 0.16 | 0.22 | 2.80 |
| 2/III | 0.19 | 0.70 | 1.06 |
| 3/III | 0.93 | 0.23 | 0.65 |
| 1/IV | 0.72 | 0.36 | 20.68 |
| 2/IV | 0.10 | 0.29 | 11.30 |
| 3/IV | 0.13 | 0.73 | 2.22 |

TABLE 4

Mean Percent Degradation of South Louisiana Crude Oil by
Samples Collected at Each Station During Winter,
Spring, and Fall.

| <u>Station/ Transect</u> | <u>Mean Percent Degradation^a</u> | | |
|------------------------------|---|---------------|-------------|
| | <u>Winter</u> | <u>Spring</u> | <u>Fall</u> |
| 1/I | 0.1 | 60.6 | 61.4 |
| 2/I | 14.1 | 37.6 | 70.8 |
| 3/I | 10.9 | 31.2 | 63.0 |
| 1/II | 10.9 | 53.9 | 71.7 |
| 2/II | 3.6 | 40.7 | 73.1 |
| 3/II | 0 | 28.7 | 63.8 |
| 1/III | 0 | 30.4 | 68.7 |
| 2/III | 3.3 | 8.4 | 65.0 |
| 3/III | 0 | 10.3 | 71.2 |
| 1/IV | 0 | 58.1 | 91.6 |
| 2/IV | 0 | 20.7 | 60.0 |
| 3/IV | 3.3 | 31.4 | 76.2 |

^aBased on C₁₄-C₃₂ n-paraffins.

TABLE 5

Utilization Rate of n -[1- ^{14}C] Hexadecane by Four
Pure Cultures of Hydrocarbon Degrading Bacteria

| <u>Hours</u> | <u>Utilization Rate</u> (disintegrations per minute/hour) | |
|-------------------------------|--|------------------------|
| | <u>Mineralization to $^{14}\text{CO}_2$</u> | <u>Uptake by cells</u> |
| I. <i>Vibrio</i> sp. | | |
| 3 | 255.8 | 0 |
| 8 | 0 | 0 |
| 24 | 103.1 | 0 |
| 48 | 129.6 | 0 |
| 72 | 0 | 0 |
| II. <i>Pseudomonas</i> sp. 1 | | |
| 3 | 375.2 | 22.0 |
| 8 | 78.9 | 0 |
| 24 | 0 | 12.3 |
| 48 | 12.2 | 0 |
| 72 | 0 | 4.0 |
| III. <i>Pseudomonas</i> sp. 2 | | |
| 3 | 698.7 | 2.8 |
| 8 | 145.9 | 19.1 |
| 24 | 10.2 | 0 |
| 48 | 22.5 | 8.3 |
| 72 | 21.9 | 0 |
| IV. <i>Pseudomonas</i> sp. 3 | | |
| 3 | 12.2 | 0.5 |
| 8 | 148.3 | 1.9 |
| 24 | 0 | 0 |
| 48 | 13.6 | 7.9 |
| 72 | 4.6 | 5.5 |

TABLE 6

Effect of South Louisiana Crude Oil (SLCO) on the Growth of
Total Sediment Aerobic Heterotrophic Bacteria Collected
At Each Station During Winter. Values are
Mean \pm 1 Standard Deviation.

| Station/ Transect | Total aerobic heterotrophic bacteria/ml wet sediment ($\times 10^6$) after: | | | |
|----------------------|--|------------------|-------------------|-------------------|
| | 2 Weeks | | 4 Weeks | |
| | Control | SLCO | Control | SLCO |
| 1/I | 26.5 \pm 4.4 | 90.0 \pm 60.7 | 22.7 \pm 7.7 | 60.8 \pm 19.3 |
| 2/I | 21.0 \pm 2.8 | 66.5 \pm 33.1 | 12.3 \pm 4.1 | 74.3 \pm 33.7 |
| 3/I | 25.3 \pm 6.5 | 60.7 \pm 17.7 | 12.3 \pm 2.2 | 54.7 \pm 11.0 |
| 1/II | 20.0 \pm 4.8 | 60.7 \pm 14.2 | 13.6 \pm 8.3 | 54.2 \pm 18.0 |
| 2/II | 33.0 \pm 7.8 | 56.0 \pm 11.7 | 24.7 \pm 11.7 | 58.5 \pm 12.2 |
| 3/II | 33.7 \pm 5.2 | 87.7 \pm 5.7 | 11.6 \pm 2.3 | 14.4 \pm 3.0 |
| 1/III | 48.8 \pm 11.0 | 111.8 \pm 30.9 | 46.5 \pm 7.3 | 79.3 \pm 6.9 |
| 2/III | 24.8 \pm 6.1 | 53.3 \pm 16.3 | 28.7 \pm 10.8 | 49.3 \pm 18.2 |
| 3/III | 2.7 \pm 0.9 | 81.0 \pm 18.1 | 40.8 \pm 20.3 | 36.2 \pm 14.6 |
| 1/IV | 35.8 \pm 14.4 | 65.0 \pm 15.6 | 29.3 \pm 6.5 | 120.0 \pm 30.3 |
| 2/IV | 36.8 \pm 11.2 | 83.5 \pm 20.6 | 27.0 \pm 9.7 | 80.8 \pm 18.8 |
| 3/IV | 104.2 \pm 18.3 | 158.2 \pm 27.1 | 33.7 \pm 9.5 | 140.7 \pm 58.7 |
| | | | | |
| Station/ Transect | 6 Weeks | | 8 weeks | |
| | Control | SLCO | Control | SLCO |
| | | | | |
| 1/I | 20.0 \pm 10.8 | 57.2 \pm 3.3 | 10.2 \pm 3.1 | 148.3 \pm 24.5 |
| 2/I | 18.7 \pm 14.2 | 49.7 \pm 11.9 | 8.4 \pm 1.6 | 211.8 \pm 14.4 |
| 3/I | 18.5 \pm 8.0 | 48.0 \pm 6.6 | 11.1 \pm 4.6 | 297.4 \pm 150.6 |
| 1/II | 18.0 \pm 6.4 | 94.7 \pm 10.4 | 18.4 \pm 4.2 | 227.7 \pm 68.3 |
| 2/II | 12.0 \pm 4.5 | 60.5 \pm 17.0 | 9.1 \pm 2.5 | 128.0 \pm 35.3 |
| 3/II | 8.8 \pm 4.9 | 119.0 \pm 18.6 | 9.9 \pm 2.3 | 421.3 \pm 88.5 |
| 1/III | 103.5 \pm 96.3 | 98.8 \pm 18.1 | 121.3 \pm 116.8 | 183.8 \pm 46.6 |
| 2/III | 20.3 \pm 9.9 | 55.0 \pm 9.0 | 10.3 \pm 4.3 | 101.8 \pm 18.3 |
| 3/III | 115.2 \pm 51.3 | 55.5 \pm 22.6 | 231.0 \pm 24.9 | 202.3 \pm 25.4 |
| 1/IV | 12.3 \pm 4.5 | 83.8 \pm 21.3 | 23.7 \pm 11.9 | 170.3 \pm 15.6 |
| 2/IV | 20.0 \pm 10.0 | 111.2 \pm 56.9 | 17.2 \pm 6.8 | 226.0 \pm 20.7 |
| 3/IV | 15.8 \pm 5.4 | 113.3 \pm 64.9 | 19.5 \pm 4.5 | 188.2 \pm 86.6 |

TABLE 7

Effect of South Louisiana Crude Oil (SLCO) on the Growth of
Total Sediment Aerobic Heterotrophic Bacteria Collected
At Each Station During Spring. Values Are
Mean \pm 1 Standard Deviation.

| Station/ Transect | Total aerobic heterotrophic bacteria/ml wet sediment ($\times 10^6$) after: | | | | | | | |
|----------------------|--|-------------------|-----------------|-------------------|---------|--|------|--|
| | 1 Week | | | | 3 Weeks | | | |
| | Control | | SLCO | | Control | | SLCO | |
| 1/I | 14.6 \pm 3.6 | 97.7 \pm 26.9 | 13.0 \pm 2.9 | 155.3 \pm 28.3 | | | | |
| 2/I | 20.7 \pm 3.9 | 114.0 \pm 42.6 | 18.5 \pm 2.8 | 133.0 \pm 52.8 | | | | |
| 3/I | 98.0 \pm 34.1 | 220.5 \pm 72.5 | 17.5 \pm 2.9 | 307.3 \pm 171.8 | | | | |
| 1/II | 21.8 \pm 3.1 | 67.0 \pm 12.7 | 17.6 \pm 4.9 | 276.7 \pm 73.5 | | | | |
| 2/II | 25.0 \pm 6.7 | 48.8 \pm 13.6 | 15.7 \pm 1.3 | 123.3 \pm 20.2 | | | | |
| 3/II | 9.7 \pm 3.0 | 118.0 \pm 39.4 | 13.6 \pm 3.6 | 136.3 \pm 14.5 | | | | |
| 1/III | 17.2 \pm 6.0 | 52.0 \pm 18.5 | 34.3 \pm 3.7 | 212.8 \pm 57.8 | | | | |
| 2/III | 315.0 \pm 230.0 | 105.5 \pm 89.2 | 47.2 \pm 38.2 | 106.3 \pm 41.7 | | | | |
| 3/III | 70.8 \pm 29.0 | 36.0 \pm 6.0 | 77.5 \pm 27.7 | 152.0 \pm 35.2 | | | | |
| 1/IV | 24.5 \pm 17.4 | 67.0 \pm 32.7 | 18.4 \pm 7.5 | 263.2 \pm 79.5 | | | | |
| 2/IV | 34.3 \pm 6.2 | 134.7 \pm 49.8 | 15.1 \pm 4.0 | 73.2 \pm 29.7 | | | | |
| 3/IV | 28.7 \pm 8.4 | 118.8 \pm 68.9 | 11.3 \pm 2.6 | 102.2 \pm 34.3 | | | | |
| Station/ Transect | 5 Weeks | | | | 8 Weeks | | | |
| | Control | | SLCO | | Control | | SLCO | |
| | | | | | | | | |
| 1/I | 42.1 \pm 40.9 | 137.8 \pm 37.0 | 10.7 \pm 4.6 | 164.8 \pm 23.5 | | | | |
| 2/I | 67.3 \pm 29.6 | 122.3 \pm 43.6 | 71.7 \pm 18.0 | 456.0 \pm 208.0 | | | | |
| 3/I | 13.4 \pm 2.7 | 213.0 \pm 80.1 | 13.9 \pm 2.7 | 396.5 \pm 159.1 | | | | |
| 1/II | 57.7 \pm 13.2 | 316.0 \pm 66.0 | 12.0 \pm 1.5 | 596.0 \pm 288.1 | | | | |
| 2/II | 15.0 \pm 5.4 | 166.7 \pm 76.6 | 8.0 \pm 0.8 | 216.0 \pm 62.6 | | | | |
| 3/II | 19.5 \pm 5.8 | 201.0 \pm 84.5 | 16.4 \pm 14.3 | 259.2 \pm 89.0 | | | | |
| 1/III | 18.6 \pm 4.6 | 395.5 \pm 74.5 | 14.6 \pm 6.2 | 412.3 \pm 37.4 | | | | |
| 2/III | 32.9 \pm 26.4 | 164.4 \pm 86.5 | 13.6 \pm 5.3 | 498.7 \pm 330.1 | | | | |
| 3/III | 32.1 \pm 6.2 | 239.8 \pm 37.6 | 17.6 \pm 4.4 | 396.7 \pm 35.7 | | | | |
| 1/IV | 15.5 \pm 2.5 | 361.2 \pm 214.3 | 9.7 \pm 2.7 | 263.0 \pm 33.3 | | | | |
| 2/IV | 13.4 \pm 2.0 | 126.2 \pm 89.7 | 5.7 \pm 0.8 | 471.4 \pm 270.5 | | | | |
| 3/IV | 14.8 \pm 2.0 | 172.0 \pm 71.2 | 14.7 \pm 12.0 | 232.2 \pm 48.0 | | | | |

TABLE 8

Effect of South Louisiana Crude Oil (SLCO) on the Growth of
Total Sediment Aerobic Heterotrophic Bacteria Collected
At Each Station During Fall. Values Are
Mean \pm 1 Standard Deviation.

| Station/ Transect | Total aerobic heterotrophic bacteria/ml wet sediment ($\times 10^6$) after: | | | | | | | |
|----------------------|--|---------------------|----------------|-------------------|---------|--|------|--|
| | 1 Week | | | | 3 Weeks | | | |
| | Control | | SLCO | | Control | | SLCO | |
| 1/I | 6.3 \pm 0.9 | 60.2 \pm 11.3 | 32.7 \pm 9.9 | 298.0 \pm 120.0 | | | | |
| 2/I | 12.1 \pm 1.9 | 51.7 \pm 20.7 | 16.9 \pm 3.9 | 173.3 \pm 141.4 | | | | |
| 3/I | 28.0 \pm 8.2 | 116.0 \pm 36.6 | 18.0 \pm 5.1 | 303.0 \pm 157.0 | | | | |
| 1/II | 21.0 \pm 8.8 | 146.7 \pm 32.8 | 12.9 \pm 5.5 | 130.3 \pm 21.1 | | | | |
| 2/II | 10.4 \pm 2.6 | 41.3 \pm 16.3 | 8.4 \pm 1.5 | 782.0 \pm 713.0 | | | | |
| 3/II | 8.3 \pm 1.7 | 58.5 \pm 16.0 | 12.8 \pm 3.9 | 565.0 \pm 679.0 | | | | |
| 1/III | 12.9 \pm 3.8 | 57.8 \pm 13.8 | 22.3 \pm 5.6 | 217.0 \pm 61.0 | | | | |
| 2/III | 9.2 \pm 2.0 | 12.5 \pm 1.6 | 9.6 \pm 2.1 | 75.7 \pm 17.7 | | | | |
| 3/III | 8.1 \pm 1.6 | 42.3 \pm 12.7 | 14.4 \pm 3.5 | 102.0 \pm 17.5 | | | | |
| 1/IV | 7.0 \pm 1.2 | 52.5 \pm 13.3 | 13.5 \pm 8.3 | 111.0 \pm 33.5 | | | | |
| 2/IV | 10.7 \pm 2.0 | 45.7 \pm 26.9 | 8.6 \pm 1.8 | 67.0 \pm 9.8 | | | | |
| 3/IV | 7.7 \pm 2.2 | 48.7 \pm 21.9 | 7.6 \pm 1.8 | 125.8 \pm 19.7 | | | | |
| | | | | | | | | |
| Station/ Transect | 5 Weeks | | | | 8 Weeks | | | |
| | Control | | SLCO | | Control | | SLCO | |
| | | | | | | | | |
| 1/I | 15.6 \pm 5.2 | 224.0 \pm 69.8 | 14.4 \pm 4.6 | 259.2 \pm 30.5 | | | | |
| 2/I | 8.0 \pm 1.9 | 183.0 \pm 44.8 | 21.1 \pm 7.7 | 302.3 \pm 69.8 | | | | |
| 3/I | 10.3 \pm 1.7 | 313.5 \pm 90.9 | 7.6 \pm 3.0 | 697.0 \pm 325.0 | | | | |
| 1/II | 13.2 \pm 1.8 | 1535.0 \pm 1255.0 | 8.0 \pm 1.9 | 328.0 \pm 121.0 | | | | |
| 2/II | 6.3 \pm 1.6 | 133.5 \pm 31.7 | 11.3 \pm 6.9 | 197.0 \pm 50.1 | | | | |
| 3/II | 7.0 \pm 1.1 | 168.5 \pm 34.1 | 5.5 \pm 2.8 | 234.0 \pm 62.3 | | | | |
| 1/III | 38.8 \pm 9.1 | 558.0 \pm 146.0 | 41.2 \pm 7.0 | 530.5 \pm 400.7 | | | | |
| 2/III | 29.7 \pm 12.6 | 332.0 \pm 236.0 | 16.7 \pm 7.2 | 142.7 \pm 29.9 | | | | |
| 3/III | 6.8 \pm 1.5 | 450.0 \pm 183.0 | 6.0 \pm 1.9 | 368.0 \pm 238.0 | | | | |
| 1/IV | 8.2 \pm 2.9 | 278.0 \pm 80.0 | 10.8 \pm 1.8 | 302.0 \pm 130.0 | | | | |
| 2/IV | 11.1 \pm 2.9 | 273.0 \pm 82.0 | 7.7 \pm 2.7 | 424.0 \pm 137.0 | | | | |
| 3/IV | 9.7 \pm 1.7 | 338.0 \pm 121.0 | 8.7 \pm 1.4 | 410.0 \pm 56.0 | | | | |

TABLE 9

Effect of South Louisiana Crude Oil (SLCO) on the Growth of Six Pure Cultures of Sediment Bacteria. Values Are Mean \pm 1 Standard Deviation.

I. Heterotrophic bacteria

A. *Bacillus* sp.

| Days | Total viable count/ml ($\times 10^4$) | | | |
|------|---|-----|-----------|-----|
| | Control | | SLCO | |
| 0 | 2.2 \pm | 0.7 | 2.4 \pm | 0.6 |
| 0.17 | 1.8 \pm | 0.4 | 1.6 \pm | 0.2 |
| 1 | 1.9 \pm | 0.8 | 3.9 \pm | 1.1 |
| 3 | 1.4 \pm | 1.2 | 6.4 \pm | 5.5 |
| 7 | 1.7 \pm | 1.3 | 7.6 \pm | 1.7 |
| 15 | 2.6 \pm | 1.7 | 9.6 \pm | 2.6 |
| 30 | 1.7 \pm | 1.9 | 9.4 \pm | 2.3 |

B. *Vibrio* sp.

| Days | Total viable count/ml ($\times 10^3$) | | | |
|------|---|------|------------|------|
| | Control | | SLCO | |
| 0 | 80.0 \pm | 6.5 | 76.8 \pm | 20.1 |
| 0.17 | 78.5 \pm | 15.0 | 71.8 \pm | 14.1 |
| 1 | 83.0 \pm | 10.6 | 83.2 \pm | 8.6 |
| 3 | 93.2 \pm | 12.7 | 82.7 \pm | 17.8 |
| 7 | 123.5 \pm | 15.4 | 58.5 \pm | 7.4 |
| 15 | 132.0 \pm | 15.2 | 25.6 \pm | 4.0 |
| 30 | 65.7 \pm | 14.8 | 27.7 \pm | 15.1 |

C. *Pseudomonas* sp.

| Days | Total viable count/ml ($\times 10^2$) | | | |
|------|---|------|-------------|------|
| | Control | | SLCO | |
| 0 | 163.5 \pm | 20.7 | 153.0 \pm | 16.1 |
| 0.17 | 149.2 \pm | 14.5 | 143.8 \pm | 9.6 |
| 1 | 32.9 \pm | 7.0 | 19.4 \pm | 3.8 |
| 3 | 14.7 \pm | 3.2 | 11.5 \pm | 1.9 |
| 7 | 12.2 \pm | 4.4 | 10.6 \pm | 1.2 |
| 15 | 12.3 \pm | 4.0 | 9.6 \pm | 1.7 |
| 30 | 12.3 \pm | 3.4 | 8.8 \pm | 1.3 |

TABLE 9 CONT.'D

II. Hydrocarbon degrading bacteria

A. *Vibrio* sp.

| Days | Total viable count/ml ($\times 10^4$) | | | |
|------|---|------|-------------|------|
| | Control | | SLCO | |
| 0 | 0.7 \pm | 0.1 | 0.6 \pm | 0.1 |
| 0.17 | 1.6 \pm | 0.2 | 1.6 \pm | 0.2 |
| 1 | 48.5 \pm | 6.1 | 48.4 \pm | 6.1 |
| 3 | 63.1 \pm | 4.1 | 137.1 \pm | 24.2 |
| 7 | 86.8 \pm | 20.9 | 154.7 \pm | 25.9 |
| 15 | 61.8 \pm | 14.0 | 128.3 \pm | 22.7 |
| 30 | 5.0 \pm | 1.5 | 34.8 \pm | 30.7 |

B. *Pseudomonas* sp. 1

| Days | Total viable count/ml ($\times 10^4$) | | | |
|------|---|-----|-------------|------|
| | Control | | SLCO | |
| 0 | 0.6 \pm | 0.1 | 0.5 \pm | 0.1 |
| 0.17 | 0.6 \pm | 0.2 | 0.5 \pm | 0.1 |
| 1 | 13.1 \pm | 3.2 | 5.7 \pm | 0.4 |
| 3 | 16.4 \pm | 1.8 | 110.3 \pm | 33.9 |
| 7 | 11.3 \pm | 2.5 | 287.0 \pm | 88.8 |
| 15 | 13.7 \pm | 1.6 | 244.3 \pm | 46.9 |
| 30 | 2.4 \pm | 1.2 | 143.2 \pm | 51.0 |

C. *Pseudomonas* sp. 2

| Days | Total viable count/ml ($\times 10^4$) | | | |
|------|---|-------|--------------|-------|
| | Control | | SLCO | |
| 0 | 1.0 \pm | 0.1 | 1.0 \pm | 0.3 |
| 0.17 | 1.5 \pm | 0.3 | 1.6 \pm | 0.2 |
| 1 | 88.7 \pm | 9.6 | 122.8 \pm | 30.9 |
| 3 | - | - | - | - |
| 7 | 390.8 \pm | 75.4 | 1423.7 \pm | 596.5 |
| 15 | 443.0 \pm | 57.0 | 2225.0 \pm | 511.0 |
| 30 | 717.0 \pm | 334.0 | 3222.0 \pm | 671.0 |



The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.