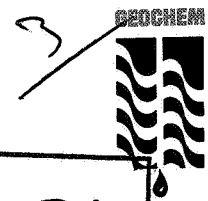


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TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-------|------------------------------|-------------------------|--|
|-----------------------------|-------|------------------------------|-------------------------|--|

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| | | | | |
|-------------------------------|---------|---|---------------|--|
| 1375-001 (= 1284-005) CORE | 1906.3m | A 90% Silty sandstone, blocky, fine grained, well sorted, v. light brownish grey | 5YR7/1 | |
| | | B 10% Coal, brittle, blocky, vitreous lustre, greyish black | N2 | |
| 1375-002 (= 1284-015) CORE | 1914.0m | A 98% Coal, blocky, brittle, vitreous lustre, sl. sulphurous, sl. arg., greyish black | N2 | |
| 1375-003 (= 1284-038) CORE | 1915.5m | A 90% Silty sandstone, massive-banded, fine grained, well sorted, coal inclusions, medium brownish grey | 5YR5/1 | |
| | | B 10% Coal, blocky, brittle, vitreous lustre, greyish black | N2 | |
| 1375-004 (= 1284-007) CORE | 1919.7m | A 98% Coal, blocky, brittle, sulphurous, shaly, greyish black | N2 | |
| 1375-005 (= 1284-006) CORE | 1931.5m | A 98% Silty shale, subfissile, soft to mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | |



TABLE 2

STANDARD PYROLYSIS DATA

| GEOCHEM SAMPLE NUMBER | DEPTH | ORGANIC CARBON | S1 (mg/g) | S2 (mg/g) | PRODUCTION INDEX | HYDROGEN INDEX | Tmax (°C) |
|-----------------------------|--------|-------------------|--------------|--------------|---------------------|-------------------|--------------|
| 1375-001B | 1906.0 | | 34.34 | 189.40 | 0.15 | | 428 |
| 1375-004A | 1919.7 | | 24.45 | 158.50 | 0.13 | | 427 |



TABLE 3a
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

| JOB | LITHO | DEPTH | TOTAL EXTRACT | HYDROCARBONS | | | NON HYDROCARBONS | | | |
|-----|-------|-------|---------------|--------------|-----------|-------|-----------------------|--------------|------------------|-------|
| | | | | Saturates | Aromatics | TOTAL | Preciptd. Asphaltenes | Eluted NSO's | Non-eluted NSO's | TOTAL |

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| | | | | | | | | | | |
|----------|--|--------|-------|-------|------|-------|-------|-------|-----|-------|
| 375-001A | | 1906.3 | 12526 | 4928 | 1351 | 6278 | 4577 | 1505 | 165 | 6247 |
| 375-002A | | 1914 | 14179 | 4798 | 1560 | 6357 | 4952 | 2667 | 202 | 7821 |
| 375-003A | | 1915.5 | 56655 | 17509 | 7236 | 24745 | 18563 | 12563 | 782 | 31908 |
| 375-004A | | 1919.7 | 24658 | 8955 | 4297 | 13252 | 6748 | 4477 | 180 | 11405 |
| 375-005A | | 1931.5 | 3954 | 2516 | 432 | 2948 | 599 | 368 | 39 | 1006 |



TABLE 3b
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

| JOB | LITHO | DEPTH | HYDROCARBONS | | NON HYDROCARBONS | | |
|-----------------------------|-------|-------|--------------|-----------|--------------------------|-----------------|---------------------|
| GEOCHEM SAMPLE NUMBER | | | Saturates | Aromatics | Preciptd. Asphaltenes | Eluted NSO's | Non eluted NSO's |

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| | | | | | | | |
|------------|--|--------|-------|-------|-------|-------|------|
| 1375-001 A | | 1906.3 | 39.34 | 10.78 | 36.54 | 12.02 | 1.32 |
| 1375-002 A | | 1914 | 33.84 | 11.00 | 34.93 | 18.81 | 1.43 |
| 1375-003 A | | 1915.5 | 30.91 | 12.77 | 32.77 | 22.18 | 1.38 |
| 1375-004 A | | 1919.7 | 36.32 | 17.43 | 27.37 | 18.16 | 0.73 |
| 1375-005 A | | 1931.5 | 63.63 | 10.93 | 15.15 | 9.31 | 0.98 |



TABLE 4
SIGNIFICANT RATIOS (%) OF C₁₅₊ FRACTIONS AND ORGANIC CARBON

| IOB | LITHO | DEPTH | ORGANIC CARBON (wt. %) | HYDROCARBONS | | TOTAL EXTRACT | SATURATES |
|-----------------------|-------|-------|------------------------|---------------|-------------|---------------|-----------|
| GEOCHEM SAMPLE NUMBER | | | | TOTAL EXTRACT | ORG. CARBON | ORG. CARBON | AROMATICS |

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| | | | | | | | |
|-----------|--|--------|-------|-------|-------|-------|------|
| 1375-001A | | 1906.3 | 25.60 | 50.12 | 2.45 | 4.89 | 3.65 |
| 1375-002A | | 1914 | 65.80 | 44.84 | 0.97 | 2.15 | 3.08 |
| 1375-003A | | 1915.5 | 24.90 | 43.68 | 9.94 | 22.75 | 2.42 |
| 1375-004A | | 1919.7 | 63.50 | 53.74 | 2.09 | 3.88 | 2.08 |
| 1375-005A | | 1931.5 | 1.40 | 74.56 | 21.06 | 28.24 | 5.82 |



TABLE 5
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -001B | -002A | -003B | -004A | -005A |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| DEPTH | 1906.3m CORE | 1914.0m CORE | 1915.5m CORE | 1919.7m CORE | 1931.5m CORE |
| SAMPLE TYPE | WELL 7120-9/1 | | | | |
| nC ₁₅ | 5.75 | 10.44 | 3.12 | 14.42 | 5.06 |
| nC ₁₆ | 8.52 | 12.11 | 7.57 | 12.86 | 6.12 |
| nC ₁₇ | 9.45 | 13.88 | 9.80 | 10.89 | 7.03 |
| nC ₁₈ | 9.30 | 11.32 | 9.95 | 9.34 | 6.39 |
| nC ₁₉ | 9.23 | 9.95 | 8.98 | 9.85 | 6.39 |
| nC ₂₀ | 9.80 | 7.88 | 8.46 | 6.95 | 7.34 |
| nC ₂₁ | 7.46 | 7.48 | 6.90 | 5.81 | 6.23 |
| nC ₂₂ | 6.46 | 6.11 | 6.76 | 5.29 | 6.28 |
| nC ₂₃ | 5.61 | 4.73 | 6.01 | 4.77 | 5.80 |
| nC ₂₄ | 5.47 | 3.64 | 5.64 | 4.15 | 5.16 |
| nC ₂₅ | 4.55 | 3.15 | 5.64 | 3.42 | 5.75 |
| nC ₂₆ | 3.48 | 2.46 | 4.75 | 2.70 | 5.22 |
| nC ₂₇ | 3.27 | 1.87 | 3.64 | 2.70 | 5.27 |
| nC ₂₈ | 2.49 | 1.58 | 3.49 | 2.07 | 4.58 |
| nC ₂₉ | 2.63 | 1.48 | 3.19 | 1.76 | 4.26 |
| nC ₃₀ | 1.70 | 0.69 | 2.08 | 1.24 | 3.09 |
| nC ₃₁ | 1.42 | 0.59 | 1.71 | 0.73 | 3.30 |
| nC ₃₂ | 1.07 | 0.30 | 0.82 | 0.62 | 2.34 |
| nC ₃₃ | 1.14 | 0.20 | 0.74 | 0.21 | 2.24 |
| nC ₃₄ | 0.78 | 0.10 | 0.52 | 0.10 | 1.38 |
| nC ₃₅ | 0.43 | 0.05 | 0.22 | 0.10 | 0.80 |
| PARAFFIN | 45.91 | 51.09 | 43.31 | 38.54 | 43.47 |
| SOPRENOID | 3.26 | 3.52 | 3.67 | 2.52 | 2.91 |
| NAPHTHENE | 50.83 | 45.38 | 53.02 | 58.94 | 53.62 |
| PI INDEX 1 | 1.00 | 1.05 | 0.97 | 1.03 | 1.02 |
| PI INDEX 2 | 1.13 | 1.13 | 1.08 | 1.07 | 1.12 |
| PI INDEX 3 | 1.10 | 0.93 | 0.88 | 1.13 | 1.08 |
| RISTANE/PHYTANE | 1.38 | 1.92 | 1.28 | 2.15 | 1.80 |
| RISTANE/nC ₁₇ | 0.44 | 0.33 | 0.48 | 0.41 | 0.61 |

$$I_1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I_2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I_3 = \frac{2x(C_{27})}{C_{26}+C_{28}}$$

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TABLE 6
CARBON ISOTOPE COMPOSITIONS (‰, PDB)

| GEOCHEM SAMPLE NUMBER | DEPTH | TOTAL EXTRACT WHOLE OIL | SATURATES | AROMATICS | NSO | ASPHALTENES | KEROGEN | PYROLYSATE S2 |
|-----------------------------|-------|----------------------------|-----------|-----------|-----|-------------|---------|------------------|
|-----------------------------|-------|----------------------------|-----------|-----------|-----|-------------|---------|------------------|

WELL 7120/9-1

| | | | | | | | |
|--------------------------|-----------------|--------|---------|---------|---------|---------|--------|
| 1375-002A (1284-015A) | 1914.0m CORE | -27.38 | -29.38* | -27.71 | -27.94* | -25.92 | -27.12 |
| 1375-003B (1284-038B) | 1915.5m CORE | -26.94 | -29.51* | -28.30* | -27.70 | -27.05* | -26.58 |
| 1375-004A (1284-007A) | 1919.7m CORE | -27.50 | -29.46 | -27.70* | -27.60* | 26.65 | -27.24 |

* - very small sample



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TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-001 | 2700-702m | A 95% Siltstone, dolomitic, blocky, mod. hard, light grey to v. light grey | N7-8 | 0.43 |
| | | B 5% Silty claystone, blocky, mod. hard, non-calc., greyish red Minor LCM - metal and cement? | 5R4/2 | 0.55 |
| 1370-002 | 2702-705m | A 95% Siltstone, as 1370-001A | N7-8 | 0.45 |
| | | B 5% Silty claystone, as 1370-001B Minor LCM - metal and cement? | 5R4/2 | 0.18 |
| 1370-003 | 2705-707m | A 95% Siltstone, as 1370-001A | N7-8 | 0.44, 0.40 |
| | | B <5% Silty claystone, as 1370-001B Minor LCM - metal and cement? | 5R4/2 | |
| 1370-004 | 2707-710m | A 95% Siltstone, as 1370-001A | N7-8 | 0.32 |
| | | B <5% Silty claystone, as 1370-001B Minor LCM - metal and cement?. | 5R4/2 | |
| 1370-005 | 2710-712m | A 95% Siltstone, as 1370-001A | N7-8 | 0.34 |
| | | B <5% Silty claystone, as 1370-001B Minor other claystone Minor LCM | 5R4/2 | 0.45 |
| 1370-006 | 2712-715m | A 95% Siltstone, as 1370-001A | N7-8 | 0.48 |
| | | B <5% Silty claystone, as 1370-001B Minor shale Minor LCM | 5R4/2 | 0.19 |
| 1370-007 | 2715-717m | A 95% Siltstone, blocky, mod. hard, sl. calc., light grey to v. light grey | N7-8 | 0.51, 0.54 |
| | | B 5% Claystone, blocky to subfissile, soft to mod. hard, non-calc., greyish red Minor other siltstone and shale Minor LCM | 5R4/2 | |
| 1370-008 | 2717-720m | A 85% Siltstone, blocky, mod. hard, non-calc., grades to sandstone, v. light grey | N8 | 0.78 |
| | | B 10% Claystone, blocky to platy, mod. soft, non-calc., pale greyish red | 5R5/2 | 0.61 |
| | | C 5% Claystone, blocky to platy, mod. soft, non-calc., medium light grey Minor LCM - metal | N6 | 1.06 |
| 1370-009 | 2720-722m | A 80% Siltstone, blocky, soft to mod. hard, non-calc., grades to sandstone, v. light grey | N8 | 0.41 |
| | | B 10% Claystone, blocky, soft, non-calc., pale greyish red | 5R5/2 | |
| | | C 10% Claystone, blocky to subfissile, soft, non-calc., medium light grey LCM - metal | N6 | |



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-010 | 2722-725m | A 85% Siltstone, blocky, mod. hard, non-calc., grades to sandstone, v. light grey | N8 | 0.49 |
| | | B 10% Claystone, blocky to platy, mod. soft, non-calc., medium light grey | N6 | 0.59 |
| | | C 5% Claystone, blocky to platy, mod. soft, non-calc., pale greyish red | 5R5/2 | 0.71 |
| 1370-011 | 2725-727m | A 85% Siltstone, as 1370-010A | N8 | 0.76 |
| | | B 10% Claystone, as 1370-010B | N6 | 0.48 |
| | | C 5% Claystone, as 1370-010C | 5R5/2 | 0.76 |
| 1370-012 | 2727-730m | A 85% Siltstone, as 1370-010A | N8 | 0.78 |
| | | B 10% Claystone, as 1370-010B | N6 | 0.82 |
| | | C <5% Claystone, as 1370-010C Minor LCM - metal | 5R5/2 | 0.48 |
| 1370-013 | 2730-732m | A 85% Siltstone, blocky, soft to mod. hard, non-calc., grades to sandstone, v. light grey | N8 | 0.38,0.42 |
| | | B 10% Claystone, subfissile to blocky, soft, non-calc., medium grey | N5 | 0.43 |
| | | C 5% Claystone, blocky, soft, non-calc., pale greyish red | 5R5/2 | |
| 1370-014 | 2732-735m | A 90% Siltstone, as 1370-010A | N8 | 0.74 |
| | | B 10% Claystone, blocky to platy, mod. soft, non-calc., medium grey Minor red claystone | N5 | 0.76 |
| 1370-015 | 2735-737m | A 90% Siltstone, as 1370-010A | N8 | 0.69 |
| | | B 10% Claystone, as 1370-014B Minor red claystone, laminated | N5 | 0.82 |
| 1370-336 | 2736m SWC | A 98% Siltstone, blocky, soft, non-calc., v. light grey to v. light olive grey | N8- 5Y7/1 | 0.29 |
| 1370-016 | 2737-740m | A 85% Sandstone, v. fine to fine grained, blocky, mod. hard, mod. sorted, calc. matrix in part, v. light grey | N8 | |
| | | B 15% Claystone, as 1370-14B | N5 | 0.81 |
| 1370-017 | 2740-742m | A 85% Siltstone, blocky, soft to mod. hard, non-calc., grades to sandstone, v. light grey | N8 | 0.43 |
| | | B 10% Claystone, subfissile to blocky, soft, non-calc., medium grey | N5 | 0.48 |
| | | C 5% Claystone, blocky, soft, non-calc., pale greyish red | 5R5/2 | |
| 1370-018 | 2742-745m | A 85% Sandstone, as 1370-016A | N8 | |
| | | B 10% Claystone, as 1370-014B | N5 | 0.91 |
| | | C 5% Claystone, blocky to platy, mod. soft, non-calc., pale greyish red | 5R5/2 | 0.78 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-019 | 2745-747m | A 85% Sandstone, v. fine to fine grained, blocky, mod. hard, mod. sorted, calc. matrix in part, v. light grey | N8 | 0.93,0.84 |
| | | B 10% Claystone, blocky to platy, mod. soft, non-calc., medium grey | N5 | |
| | | C 5% LCM - metal Minor red claystone | | |
| 1370-020 | 2747-750m | A 85% Sandstone, v. fine to fine grained, blocky, mod. hard, mod. sorted, calc. matrix in part, v. light grey | N8 | 0.81 |
| | | B 10% Claystone, blocky to platy, mod. soft, non-calc., medium grey | N5 | |
| | | C 5% LCM - metal Minor red claystone | | |
| 1370-021 | 2750-752m | A 85% Silty sandstone, blocky, fine grained, well sorted, v. light grey | N8 | 0.61 |
| | | B 10% Claystone, subfissile to blocky, soft to mod. hard, non-calc., medium grey | N5 | |
| | | C 5% Claystone, blocky, soft, non-calc., pale greyish red | 5R5/2 | |
| 1370-022 | 2752-755m | A 90% Sandstone, as 1370-020A | N8 | 0.83 |
| | | B 10% Claystone, as 1370-020B Minor LCM - metal, red claystone | N5 | |
| 1370-023 | 2755-757m | A 90% Sandstone, as 1370-020A | N8 | 1.08 |
| | | B <10% Claystone, as 1370-020B | N5 | |
| 1370-024 | 2757-760m | A 90% Sandstone, as 1370-020A | N8 | 0.76 |
| | | B 10% Claystone, as 1370-020B Minor red claystone, LCM - metal | N5 | |
| 1370-025 | 2760-762m | A 90% Silty sandstone, blocky, fine grained, well sorted, v. light grey | N8 | 0.59 |
| | | B 10% Claystone, blocky to subfissile, soft to mod. hard, non-calc., medium grey Minor other claystone | N5 | |
| 1370-026 | 2762-765m | A 90% Sandstone, as 1370-020A | N8 | 0.83 |
| | | B 10% Claystone, as 1370-020B Minor LCM - metal | N5 | |
| 1370-027 | 2765-767m | A 95% Sandstone, fine to very fine grained, blocky, mod. sorted, mod. hard, calc. matrix in part, v. light grey | N8 | 0.61 |
| | | B 5% Claystone, platy, mod. soft, non-calc., medium dark grey Minor red claystone | N4 | |



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-028 | 2767-770m | A 95% Sandstone, fine to very fine grained, blocky, mod. sorted, mod. hard, calc. matrix in part, v. light grey | N8 | 0.82 |
| | | B <5% Claystone, platy, mod. soft, non-calc., medium dark grey Minor red claystone | N4 | |
| 1370-029 | 2770-772m | A 95% Silty sandstone, blocky, fine grained, well sorted, v. light grey | N8 | |
| | | B 5% Claystone, blocky to subfissile, soft, non-calc., medium grey Minor other claystone | N5 | |
| 1370-030 | 2772-775m | A 95% Sandstone, fine to fine grained, blocky, mod. sorted, mod. hard, calc. matrix in part, v. light grey | N8 | 0.22 |
| | | B 5% Claystone, platy, mod. soft, non-calc., medium dark grey | N4 | 1.38 |
| 1370-031 | 2775-777m | A 95% Sandstone, as 1370-030A | N8 | 1.20 |
| | | B <5% Claystone, as 1370-030B | N4 | |
| 1370-032 | 2777-780m | A 60% Sandstone, as 1370-030A | N8 | 0.43 |
| | | B 25% Claystone, blocky to platy, mod. soft, non-calc., pale greyish red | 5R5/2 | |
| | | C 15% Claystone, as 1370-030B | N4 | |
| 1370-033 | 2780-782m | A 60% Silty sandstone, blocky, fine grained, v. light grey | N8 | 0.86 |
| | | B 25% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey to medium dark grey | N5-4 | |
| | | C 15% Claystone, blocky, soft, non-calc., pale greyish red | 5R5/2 | |
| 1370-034 | 2782-785m | A 40% Sandstone, as 1370-030A | N8 | 0.25 |
| | | B 35% Claystone, as 1370-032A | N8 | |
| | | C 25% Claystone, subfissile, mod. soft, non-calc., medium dark grey to dark greenish grey | N4- 5G4/1 | |
| 1370-035 | 2785-787m | A 50% Claystone, as 1370-032B | 5R5/2 | 0.32 |
| | | B 30% Sandstone, as 1370-030A | N8 | 0.43, 0.41 |
| | | C 20% Claystone, as 1370-034C | N4- 5G4/1 | |
| 1370-036 | 2787-790m | A 45% Claystone, as 1370-032B | 5R5/2 | 0.22 |
| | | B 25% Claystone, as 1370-034C | N4- 5G4/1 | 0.37 |
| | | C 20% Sandstone, as 1370-030A | N8 | 0.28 |
| | | D 10% Claystone, platy, mod. soft, non-calc., v. light grey to light greenish grey | N8- 5GY8/1 | |



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|--|-------------------------|--|
| 1370-037 | 2790-792m | A 40% Claystone, blocky to subfissile, soft to mod. hard, non-calc., pale greyish red | 5R5/2 | 0.41 |
| | | B 30% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey to medium dark grey | N5-4 | 0.52 |
| | | C 30% Silty sandstone, blocky, fine grained, v. light grey Minor other claystone | N8 | |
| 1370-038 | 2792-795m | A 60% Claystone, sub-platy to subfissile, mod. soft, non-calc., pale greyish red | 5R5/2 | 0.22 |
| | | B 20% Claystone, platy, mod. soft, non-calc., light greenish grey | 5G8/1 | 0.21 |
| | | C 10% Claystone, subfissile, mod. soft, non-calc., medium dark grey | N4 | 0.50 |
| | | D 10% Sandstone, v. fine grained, blocky, mod. hard, sl. calc. matrix, v. light grey | N8 | |
| 1370-039 | 2795-797m | A 50% Claystone, as 1370-038A | 5R5/2 | 0.22 |
| | | B 35% Claystone, as 1370-038B | 5G8/1 | 0.26 |
| | | C 15% Claystone, as 1370-038C Minor sandstone | N4 | 0.39 |
| 1370-040 | 2797-800m | A 45% Claystone, as 1370-038A | 5R5/2 | 0.22 |
| | | B 25% Claystone, as 1370-038B | 5G8/1 | 0.21 |
| | | C 20% Claystone, as 1370-038C | N4 | 0.44 |
| | | D 10% Sandstone, v. fine grained, blocky, mod. hard, v. light grey | N8 | |
| 1370-041 | 2800-802m | A 40% Silty claystone, subfissile to blocky, soft, non-calc., light grey to v. light grey | N7-8 | 0.44 |
| | | B 35% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey | N5 | |
| | | C 25% Shaly claystone, subfissile to blocky, soft, non-calc., pale greyish red | 5R5/2 | |
| 1370-042 | 2802-805m | A 50% Silty claystone, platy to subfissile, mod. soft, non-calc., v. light grey to light greenish grey | N8- 5G8/1 | 0.26 |
| | | B 30% Claystone, as 1370-038A | 5R5/2 | 0.21 |
| | | C 10% Claystone, as 1370-038C | N4 | 0.33 |
| | | D 10% Sandstone, as 1370-C40D | N8 | |
| 1370-043 | 2805-807m | A 35% Silty claystone, as 1370-042A | N8- 5G8/1 | 0.19 |
| | | B 25% Claystone, as 1370-038A | 5R5/2 | 0.16 |
| | | C 25% Sandstone, as 1370-040D | N8 | |
| | | D 15% Claystone, as 1370-038C | N4 | 0.34 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|--|-------------------------|--|
| 1370-044 | 2807-810m | A 30% Silty claystone, platy to subfissile, mod. soft, non-calc., v. light grey to light greenish grey | N8-5G8/1 | 0.33 |
| | | B 30% Claystone, sub-platy to subfissile, mod. soft, non-calc., pale greyish red | 5R5/2 | 0.18,0.20 |
| | | C 25% Sandstone, v. fine grained, blocky, mod. hard, v. light grey | N8 | |
| | | D 15% Claystone, subfissile, mod. soft, non-calc., medium dark grey | N4 | 0.45 |
| 1370-045 | 2810-812m | A 55% Silty claystone, grading to siltstone, blocky, soft, non-calc. to v. sl. calc., v. light grey | N8 | 0.25 |
| | | B 30% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey | N5 | |
| | | C 15% Claystone, blocky, soft, non-calc., pale greyish red Minor sandstone | 5R5/2 | 0.22 |
| 1370-046 | 2812-815m | A 50% Sandstone, v. fine grained, blocky, mod. hard, v. light grey | N8 | |
| | | B 30% Claystone, sub-platy to subfissile, mod. soft, non-calc., pale greyish red | 5R5/2 | 0.77 |
| | | C 10% Silty claystone, platy to subfissile, mod. soft, non-calc., v. light grey to light greenish grey | N8-5G8/1 | 0.70 |
| | | D 10% Claystone, subfissile, mod. soft, non-calc., medium dark grey | N4 | 0.95 |
| 1370-047 | 2815-817m | A 35% Sandstone, as 1370-046A | N8 | |
| | | B 30% Silty claystone, as 1370-046C | N8-5G8/1 | 0.40 |
| | | C 20% Claystone, as 1370-046B | 5R5/2 | 0.39 |
| | | D 15% Claystone, as 1370-046D | N4 | 0.56 |
| 1370-048 | 2817-820m | A 35% Sandstone, as 1370-046A | N8 | |
| | | B 25% Claystone, as 1370-046D | N4 | 0.56 |
| | | C 20% Silty claystone, as 1370-046C | N8-5G8/1 | 0.55 |
| | | D 20% Claystone, as 1370-046B | 5R5/2 | 0.32 |
| 1370-049 | 2820-822m | A 40% Silty claystone, blocky, soft, non-calc., v. light grey | N8 | 0.31 |
| | | B 40% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey | N5 | 0.35 |
| | | C 20% Claystone, blocky, soft, non-calc., pale greyish red Minor sandstone | 5R5/2 | 0.25 |
| 1370-337 | 2823m SWC | A 98% Silty sandstone, unconsolidated, fine grained, well sorted, medium light grey to v. light olive grey | N6-5Y7/1 | |

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-339 | 2823m SWC | A 98% Silty sandstone, blocky, fine grained, well sorted, yellowish grey | 5Y8/1 | |
| 1370-050 | 2822-825m | A 50% Silty claystone, platy to subfissile, mod. soft, non-calc., v. light grey to light greenish grey | N8- 5G8/1 | 0.45 |
| | | B 20% Sandstone, v. fine grained, blocky, mod. hard, v. light grey | N8 | |
| | | C 20% Claystone, subfissile, mod. soft, non-calc., medium dark grey | N4 | 0.85 |
| | | D 10% Claystone, sub-platy to subfissile, mod. soft, non-calc., pale greyish red | 5R5/2 | |
| 1370-051 | 2825-827m | A 60% Silty claystone, as 1370-050A | N8- 5G8/1 | 0.53 |
| | | B 20% Claystone, as 1370-050C | N4 | 0.58 |
| | | C 15% Sandstone, as 1370-050B | N8 | |
| | | D 5% Claystone, as 1370-050D | 5R5/2 | |
| 1370-052 | 2827-830m | A 65% Siltstone, grading to sandstone, blocky, mod. hard, non-calc., v. light grey to light greenish grey | N8- 5G8/1 | |
| | | B 30% Shaly claystone, platy to subfissile, mod. hard, non-calc., medium dark grey to dark greenish grey | N4- 5G4/1 | 0.49 |
| | | C 5% Claystone, sub-platy to subfissile, mod. soft, non-calc., pale greyish red | 5R5/2 | |
| 1370-053 | 2830-832m | A 90% Siltstone, blocky, soft, non-calc. to sl. calc., grades to sandstone, v. light grey | N8 | |
| | | B 10% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey Minor other claystone | N5 | 0.42 |
| 1370-054 | 2832-835m | A 80% Siltstone, as 1370-052A | N8- 5G8/1 | |
| | | B 20% Shaly claystone, as 1370-052B Minor other claystone | N4- 5G4/1 | 0.87 |
| 1370-055 | 2835-837m | A 85% Siltstone, as 1370-052A | N8- 5G8/1 | |
| | | B 15% Shaly claystone, as 1370-052B Minor other claystone | N4- 5G4/1 | 0.85 |
| 1370-056 | 2837-840m | A 90% Siltstone, as 1370-052A | N8- 5G8/1 | |
| | | B 10% Shaly claystone, as 1370-052B Minor other claystone | N4- 5G4/1 | 0.88 |
| 1370-338 | 2840m SWC | A 98% Sandstone, blocky, fine grained, subangular, well sorted, v. light grey to v. light olive grey | N8- 5Y7/1 | |



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-057 | 2840-842m | A 85% Siltstone, blocky, soft, non-calc. to sl. calc., grades to sandstone, v. light grey | N8 | 0.41,0.39 |
| | | B 15% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey Minor other claystone | N8- 5G8/1 | 0.73 |
| 1370-058 | 2842-845m | A 90% Siltstone, grading to sandstone, blocky, mod. hard, non-calc., v. light grey to light greenish grey | N8- 5G8/1 | |
| | | B 10% Shaly claystone, platy to subfissile, mod. hard, non-calc., medium dark grey to dark greenish grey | N4- 5G4/1 | 1.15 |
| 1370-059 | 2845-847m | A 95% Siltstone, as 1370-058A | N8- 5G8/1 | |
| | | B 5% Shaly claystone, as 1370-058B Minor red claystone | N4- 5G4/1 | 0.58 |
| 1370-342 | 2849m SWC | A 98% Siltstone, grading to silty sandstone, blocky, soft, non-calc., light olive grey | 5Y6/1 | |
| 1370-060 | 2847-850m | A 90% Siltstone, as 1370-058A | N8- 5G8/1 | |
| | | B 10% Shaly claystone, as 1370-058B Minor red claystone | N4- 5G4/1 | 0.75,0.78 |
| 1370-061 | 2850-852m | A 85% Siltstone, blocky, soft, non-calc., grades to sandstone, v. light grey | N8 | 0.39 |
| | | B 15% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey Minor other claystone | N5 | 0.45 |
| 1370-062 | 2852-855m | A 90% Sandstone, v. fine grained, blocky, mod. hard, non-calc., light grey to v. light grey | N7-8 | |
| | | B 10% Shaly claystone, subfissile, mod. hard, non-calc., medium grey to medium greenish grey | N5- 5G5/1 | 0.65 |
| 1370-332 | 2856m SWC | A 98% Sandstone, blocky, fine grained, well sorted, carb? flecks, v. light grey | N8 | |
| 1370-063 | 2857-860m | A 90% Sandstone, as 1370-062A | N7-8 | |
| | | B 10% Shaly claystone, as 1370-062B Minor red claystone | N5- 5G5/1 | |
| 1370-064 | 2860-862m | A 90% Silty sandstone, blocky, v. fine grained, well sorted, v. light grey | N8 | |
| | | B 10% Shaly claystone, subfissile, soft, non-calc., medium grey Minor other claystone | N5 | 0.49 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-065 | 2862-865m | A 80% Sandstone, v. fine grained, blocky, mod. hard, non-calc., light grey to v. light grey | N7-8 | 0.65 |
| | | B 20% Shaly claystone, subfissile, mod. hard, non-calc., medium grey to medium greenish grey Minor red claystone | N5- 5G5/1 | |
| 1370-066 | 2865-867m | A 90% Sandstone, as 1370-065A | N7-8 | 1.06 |
| | | B 10% Shaly claystone, as 1370-0625B | N5- 5G5/1 | |
| 1370-067 | 2867-870m | A 85% Sandstone, as 1370-065A | N7-8 | 1.35 |
| | | B 15% Shaly claystone, as 1370-065B | N5- 5G5/1 | |
| 1370-068 | 2870-872m | A 90% Silty sandstone, blocky, fine grained, well sorted, light grey to v. light grey | N7-8 | 1.71 |
| | | B 10% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey Minor siltstone and other claystone | N5 | |
| 1370-069 | 2872-875m | A 90% Sandstone, as 1370-065A | N7-8 | 1.18 |
| | | B 10% Shaly claystone, as 1370-065B | N5- 5G5/1 | |
| 1370-070 | 2875-877m | A 90% Sandstone, as 1370-065A | N7-8 | 1.07 |
| | | B 10% Shaly claystone, as 1370-065B | N5- 5G5/1 | |
| 1370-071 | 2877-880m | A 85% Sandstone, as 1370-065A | N7-8 | 0.72 |
| | | B 15% Shaly claystone, as 1370-065B | N5- 5G5/1 | |
| 1370-072 | 2880-882m | A 80% Siltstone, blocky, mod. hard, v. sl. calc., light grey | N7 | 0.51 |
| | | B 15% Silty sandstone, blocky, fine grained, well sorted, sl. calc., v. light grey | N8 | 0.49 |
| | | C 5% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey Minor other claystone | N5 | |
| 1370-073 | 2882-885m | A 90% Sandstone, grading to siltstone, blocky, mod. hard, non-calc., light grey to very light grey to light greenish grey | N7-8- 5GY8/1 | 0.84 |
| | | B 10% Shaly claystone, subfissile, mod. hard, non-calc., medium dark grey to dark greenish grey | N4- 5G4/1 | |



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-074 | 2885-887m | A 80% Sandstone, grading to siltstone, blocky, mod. hard, non-calc., light grey to very light grey to light greenish grey | N7-8- 5GY8/1 | |
| | | B 10% Shaly claystone, subfissile, mod. hard, non-calc., medium dark grey to dark greenish grey | N4- 5G4/1 | 0.62 |
| | | C 10% Claystone, platy, mod. hard, non-calc., pale greyish red | 5R5/2 | 0.17 |
| 1370-333 | 2887m SWC | A 98% Silty shale, subfissile, soft, non-calc., light grey to v. light grey | N7-8 | 1.00,1.04 |
| 1370-075 | 2887-890m | A 70% Sandstone, as 1370-074A | N7-8- 5GY8/1 | |
| | | B 20% Shaly claystone, as 1370-074B | N4- 5GY8/1 | 0.72 |
| | | C 10% Claystone, as 1370-074C | 5R5/2 | 0.20 |
| 1370-076 | 2890-892m | A 75% Siltstone, blocky, mod. hard, v. sl. calc., light grey | N7 | 0.55 |
| | | B 20% Silty sandstone, blocky, fine grained, well sorted, sl. calc., v. light grey | N8 | |
| | | C 5% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium grey Minor other claystone | N5 | |
| 1370-077 | 2892-895m | A 65% Sandstone, as 1370-074A | N7-8- 5GY8/1 | |
| | | B 25% Shaly claystone, as 1370-074B | N4- 5GY8/1 | 0.84 |
| | | C 10% Claystone, as 1370-074C | 5R5/2 | 0.29 |
| 1370-078 | 2895-897m | A 85% Sandstone, as 1370-074A | N7-8- 5GY8/1 | |
| | | B 15% Shaly claystone, as 1370-074B | N4- 5GY8/1 | 0.87 |
| 1370-340 | 2898m SWC | A 98% Sandstone, blocky, fine grained, subangular, well sorted, v. light grey to yellowish grey | N8- 5Y8/1 | |
| 1370-079 | 2897-900m | A 85% Sandstone, as 1370-074A | N7-8- 5GY8/1 | |
| | | B 15% Shaly claystone, as 1370-074B | N4- 5GY8/1 | 0.74 |
| 1370-080 | 2912-915m | A 95% Sandstone, as 1370-074A | N7-8- 5GY8/1 | |
| | | B 5% Shaly claystone, as 1370-074B | N4- 5GY8/1 | 0.56 |
| 1370-081 | 2915-917m | A 95% Sandstone, as 1370-074A | N7-8- 5GY8/1 | |
| | | B 5% Shaly claystone, as 1370-074B Minor red claystone | N4- 5GY8/1 | 0.64 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-082 | 2917-920m | A 90% Sandstone, grading to siltstone, blocky, mod. hard, non-calc., light grey to very light grey to light greenish grey | N7-8- 5GY8/1 | |
| | | B 10% Shaly claystone, subfissile, mod. hard, non-calc., medium dark grey to dark greenish grey Minor red claystone | N4- 5G4/1 | 0.80 |
| 1370-083 | 2920-922m | A 70% Siltstone, blocky, mod. hard, v. sl. calc., light grey | N7 | 0.51 |
| | | B 30% Silty sandstone, blocky, fine grained, well sorted, sl. calc., v. light grey Minor claystone | N8 | |
| 1370-084 | 2922-925m | A 90% Sandstone, grading to siltstone, blocky, mod. hard, non-calc., v. light grey to light grey to light greenish grey | N8-7- 5GY8/1 | |
| | | B 10% Shaly claystone, platy, mod. hard, non-calc., medium dark grey to dark greenish grey | N4- 5G4/1 | 0.57 |
| 1370-085 | 2925-927m | A 95% Sandstone, as 1370-084A | N8-7- 5GY8/1 | |
| | | B 5% Shaly claystone, as 1370-084B Minor red claystone | N4- 5G4/1 | 0.64 |
| 1370-086 | 2927-930m | A 90% Sandstone, as 1370-084A | N8-7- 5GY8/1 | |
| | | B 10% Shaly claystone, as 1370-084B Minor red claystone | N4- 5G4/1 | 0.65 |
| 1370-087 | 2930-932m | A 90% Silty sandstone, blocky, fine grained, fairly well sorted, sl. calc., light grey to v. light grey | N7-8 | |
| | | B 10% LCM - paint and lignite? Minor claystone | | |
| 1370-088 | 2932-935m | A 85% Sandstone, as 1370-084A | N8-7- 5GY8/1 | |
| | | B 15% Shaly claystone, as 1370-084B Minor red claystone | N4- 5G4/1 | 0.57 |
| 1370-089 | 2935-937m | A 85% Sandstone, as 1370-084A | N8-7- 5GY8/1 | |
| | | B 15% Shaly claystone, as 1370-084B Minor red claystone | N4- 5G4/1 | 0.65 |
| 1370-090 | 2937-940m | A 80% Sandstone, as 1370-084A | N8-7- 5GY8/1 | |
| | | B 15% Shaly claystone, as 1370-084B | N4- 5G4/1 | 0.66 |

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS



| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-091 | 2940-942m | A 90% Silty sandstone, blocky, fine grained, fairly well sorted, sl. calc., light grey to v. light grey | N7-8 | 0.89 |
| | | B 10% Shaly claystone, subfissile, soft to mod. hard, non-calc., medium dark grey | N4 | |
| 1370-092 | 2942-945m | A 80% Sandstone, grading to siltstone, blocky, mod. hard, non-calc., v. light grey to light grey to light greenish grey | N8-7- 5GY8/1 | 0.50 |
| | | B 10% Shaly claystone, platy, mod. hard, non-calc., medium dark grey to dark greenish grey | N4- 5G4/1 | |
| 1370-093 | 2945-947m | A 70% Sandstone, as 1370-092A | N8-7- 5GY8/1 | 0.48,0.46 |
| | | B 30% Shale, fissile, mod. hard, non-calc., medium dark grey | N4 | |
| 1370-094 | 2947-950m | A 90% Silty sandstone, blocky, fine grained, well sorted, sl. calc., v. light grey to light grey | N8-7 | 0.59 |
| | | B 10% Shaly claystone, as 1370-091B Minor limestone | N4 | |
| 1370-095 | 2962-965m | A 80% Siltstone, blocky, soft to mod. hard, sl. calc., grades to sandstone, v. light grey to light grey | N8-7 | 0.41 |
| | | B 10% Shale, subfissile, soft, non-calc. to v. sl. calc., medium dark grey to medium grey | N4-5 | 0.51 |
| | | C 10% Limestone, blocky, soft, chalky, v. light grey | N8 | |
| 1370-096 | 2965-967m | A 75% Sandstone, grading to siltstone, blocky, mod. hard, sl. calc. matrix, light grey to v. light grey | N7-8 | 0.98 |
| | | B 25% Shale, as 1370-093B Minor chalk | N4 | |
| 1370-097 | 2967-970m | A 80% Sandstone, as 1370-096A | N7-8 | 0.41 |
| | | B 20% Shale, as 1370-093B | N4 | |
| 1370-098 | 2970-972m | A 70% Siltstone, as 1370-095A | N8-7 | 0.36 |
| | | B 20% Limestone, as 1370-095C | N8 | |
| | | C 10% Shale, as 1370-095B | N4 | 0.35,0.37 |
| 1370-099 | 2972-975m | A 80% Sandstone, as 1370-096A | N7-8 | 0.63 |
| | | B 20% Shale, as 1370-093B Minor red shale | N4 | |
| 1370-100 | 2975-977m | A 90% Sandstone, as 1370-096A | N7-8 | 0.53 |
| | | B 10% Shale, as 1370-093B Minor chalk | N4 | |
| 1370-101 | 2977-980m | A 80% Sandstone, as 1370-096A | N7-8 | 0.60 |
| | | B 20% Shale, as 1370-093B Minor red shale | N4 | |

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Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS



| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|----------------|---|-------------------------|--|
| 1370-102 | 2980-982m | A 90% Silty sandstone, blocky, fine grained, well sorted, v. light grey B 10% Shale, subfissile to platy, soft to mod. hard, non-calc., medium dark grey Minor other claystone LCM - metal | N8 N4 | 0.53 |
| 1370-103 | 2982-985m | A 85% Sandstone, grading to siltstone, blocky, mod. hard, sl. calc. matrix, light grey to v. light grey B 15% Shale, fissile, mod. hard, non-calc., medium dark grey | N7-8 N4 | 0.55 |
| 1370-104 | 2985-987m | A 80% Sandstone, as 1370-103A B 20% Shale, as 1370-103B | N7-8 N4 | 0.53 |
| 1370-105 | 2987-990m | A 85% Sandstone, as 1370-103A B 15% Shale, as 1370-103B | N7-8 N4 | 0.93 |
| 1370-106 | 2990-992m | A 85% Silty sandstone, as 1370-102A B 15% Shale, as 1370-102B, minor cavings Minor other claystone LCM - metal | N8 N4 | 0.45, 0.43 |
| 1370-107 | 2992-995m | A 75% Sandstone, as 1370-103A B 25% Shale, as 1370-103B | N7-8 N4 | 0.42 |
| 1370-108 | 2995-997m | A 75% Sandstone, grading to siltstone, blocky, mod. hard, sl. calc., light grey to v. light grey B 25% Shale, subfissile, mod. hard, non-calc., medium dark grey | N7-8 N4 | 0.63 |
| 1370-335 | 2996m SWC | A 98% Silty sandstone, blocky, fine grained, well sorted, v. light olive grey | 5Y7/1 | 0.21 |
| 1370-109 | 2997- 3000m | A 70% Sandstone, as 1370-108A B 30% Shale, as 1370-108B | N7-8 N4 | 0.53 |
| 1370-110 | 3000-002m | A 90% Silty sandstone, blocky, fine grained, fairly well sorted, v. light grey B 10% Shale, subfissile, soft to mod. hard, non-calc., medium dark grey LCM - metal | N8 N4 | 0.78 |
| 1370-111 | 3002-005m | A 65% Sandstone, as 1370-108A B 35% Shale, as 1370-108B | N7-8 N4 | 1.06 |
| 1370-112 | 3005-007m | A 60% Sandstone, as 1370-108A B 40% Shale, fissile, mod. hard, non-calc., medium dark grey to dark grey | N7-8 N4-3 | 0.79 |

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Lost Circulation Material, moderately, occasionally, slightly, very



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ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|--|-------------------------|--|
| 1370-341 | 3008m SWC | A 98% Silty sandstone, blocky, fine grained, well sorted, v. light brownish grey | 5Y7/1 | |
| 1370-113 | 3007-010m | A 80% Sandstone, grading to siltstone, blocky, mod. hard, sl. calc., light grey to v. light grey B 20% Shale, fissile, mod. hard, non-calc., medium dark grey to dark grey | N7-8 N4-3 | 0.71 |
| 1370-114 | 3010-012m | A 85% Sandstone, as 1370-113A B 15% Shale, as 1370-113B | N7-8 N4-3 | 1.04 |
| 1370-115 | 3012-015m | A 75% Sandstone, grading to siltstone, blocky, mod. hard, sl. calc., light grey to v. light grey B 25% Shale, fissile, mod. hard, non-calc., medium dark grey to dark grey | N7-8 N4-3 | 0.54 |
| 1370-116 | 3015-017m | A 65% Sandstone, as 1370-115A B 35% Shale, as 1370-115B | N7-8 N4-3 | 0.56 |
| 1370-117 | 3017-020m | A 70% Sandstone, as 1370-115A B 30% Shale, as 1370-115B | N7-8 N4-3 | 0.74 |
| 1370-334 SWC | 3017.5m | A 98% Siltstone?, blocky, soft, sl. calc., medium grey to v. light brownish grey | N5- 5YR7/1 | 0.41 |
| 1370-118 | 3020-022m | A 65% Sandstone, as 1370-115A B 35% Shale, as 1370-115B | N7-8 N4-3 | 0.58 |
| 1370-119 | 3022-025m | A 65% Sandstone, as 1370-115A B 35% Shale, as 1370-115B | N7-8 N4-3 | 0.66 |
| 1370-120 | 3025-027m | A 80% Sandstone, as 1370-115A B 20% Shale, as 1370-115B | N7-8 N4-3 | 1.44, 1.40 |
| 1370-121 | 3027-030m | A 70% Sandstone, as 1370-115A B 30% Shale, as 1370-115B | N7-8 N4-3 | 0.76 |
| 1370-122 | 3800-802m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey Minor sandstone | N4- 5YR4/1 | 0.88 |
| 1370-123 | 3802-805m | A 98% Siltstone, as 1370-122A | N4- 5YR4/1 | 0.92 |
| 1370-124 | 3805-807m | A 98% Siltstone, as 1370-122A | N4- 5YR4/1 | 0.97, 0.97 |
| 1370-125 | 3807-810m | A 98% Siltstone, as 1370-122A | N4- 5YR4/1 | 0.92 |
| 1370-126 | 3810-812m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey Minor sandstone | N4- 5YR4/1 | 0.94 |
| 1370-127 | 3812-815m | A 98% Siltstone, as 1370-126A | N4- 5YR4/1 | 0.94 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-128 | 3815-817m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.95 |
| 1370-129 | 3817-820m | A 98% Siltstone, as 1370-126A | N4- 5YR4/1 | 0.97 |
| 1370-130 | 3820-822m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey Minor sandstone | N4- 5YR4/1 | 1.04 |
| 1370-131 | 3822-825m | A 98% Siltstone, as 1370-130A | N4- 5YR4/1 | 1.05 |
| 1370-132 | 3825-827m | A 98% Siltstone, as 1370-130A | N4- 5YR4/1 | 1.02,1.02 |
| 1370-133 | 3827-830m | A 98% Siltstone, as 1370-130A | N4- 5YR4/1 | 1.00 |
| 1370-135 | 3832-835m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 1.00 |
| 1370-136 | 3835-837m | A 98% Siltstone, as 1370-135A | N4- 5YR4/1 | 1.01 |
| 1370-137 | 3837-840m | A 98% Siltstone, as 1370-135A | N4- 5YR4/1 | 0.97 |
| 1370-138 | 3840-842m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 1.01,1.00 |
| 1370-139 | 3842-845m | A 98% Siltstone, as 1370-138A | N4- 5YR4/1 | 0.90 |
| 1370-140 | 3845-847m | A 98% Siltstone, as 1370-138A | N4- 5YR4/1 | 0.84,0.92 |
| 1370-141 | 3847-850m | A 98% Siltstone, as 1370-138A | N4- 5YR4/1 | 0.85 |
| 1370-142 | 3850-852m | A 98% Siltstone, as 1370-138A | N4- 5YR4/1 | 0.85 |
| 1370-143 | 3852-855m | A 98% Siltstone, as 1370-138A | N4- 5YR4/1 | 0.84 |
| 1370-144 | 3855-857m | A 98% Siltstone, as 1370-138A | N4- 5YR4/1 | 0.86 |
| 1370-145 | 3857-860m | A 98% Siltstone, as 1370-138A | N4- 5YR4/1 | 0.92 |
| 1370-146 | 3860-862m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.95 |
| 1370-147 | 3862-865m | A 98% Siltstone, as 1370-146A | N4- 5YR4/1 | |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-148 | 3865-867m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.81 |
| 1370-150 | 3870-872m | A 98% Siltstone, as 1370-148A | N4- 5YR4/1 | 0.83 |
| 1370-151 | 3872-875m | A 98% Siltstone, as 1370-148A | N4- 5YR4/1 | 0.85 |
| 1370-152 | 3875-877m | A 98% Siltstone, blocky, mod. hard, non-calc., medium grey to brownish grey | N5- 5YR4/1 | 0.72 |
| 1370-153 | 3877-880m | A 98% Siltstone, as 1370-152A | N5- 5YR4/1 | 0.77 |
| 1370-154 | 3880-882m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.80,0.80 |
| 1370-155 | 3882-885m | A 98% Siltstone, as 1370-154A | N4- 5YR4/1 | |
| 1370-156 | 3885-887m | A 98% Siltstone, as 1370-154A | N4- 5YR4/1 | 0.94 |
| 1370-157 | 3887-890m | A 98% Siltstone, as 1370-154A | N4- 5YR4/1 | 0.92,0.90 |
| 1370-158 | 3890-892m | A 98% Siltstone, as 1370-154A | N4- 5YR4/1 | 0.98 |
| 1370-159 | 3892-895m | A 98% Siltstone, as 1370-154A | N4- 5YR4/1 | 0.97 |
| 1370-160 | 3895-897m | A 98% Siltstone, as 1370-154A | N4- 5YR4/1 | 1.01 |
| 1370-161 | 3897-900m | A 98% Siltstone, as 1370-154A | N4- 5YR4/1 | 0.97 |
| 1370-162 | 3900-902m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey Minor shale | N4- 5YR4/1 | 0.87 |
| 1370-163 | 3902-905m | A 98% Siltstone, as 1370-162A Minor shale | N4- 5YR4/1 | 0.85 |
| 1370-164 | 3905-907m | A 98% Siltstone, as 1370-162A Minor shale | N4- 5YR4/1 | 0.87,0.88 |
| 1370-165 | 3907-910m | A 98% Siltstone, as 1370-162A Minor shale | N4- 5YR4/1 | 0.82 |
| 1370-166 | 3910-912m | A 98% Siltstone, as 1370-162A Minor shale | N4- 5YR4/1 | 0.91 |
| 1370-167 | 3912-915m | A 98% Siltstone, as 1370-162A Minor shale | N4- 5YR4/1 | 0.84 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|--|-------------------------|--|
| 1370-168 | 3915-917m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey Minor shale | N4- 5YR4/1 | 0.90 |
| 1370-169 | 3917-920m | A 98% Siltstone, as 1370-168A Minor shale | N4- 5YR4/1 | 0.90 |
| 1370-170 | 3920-922m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.91 |
| 1370-171 | 3922-925m | A 98% Siltstone, as 1370-170A | N4- 5YR4/1 | 0.86,0.84 |
| 1370-172 | 3925-927m | A 98% Siltstone, as 1370-170A | N4- 5YR4/1 | 0.90 |
| 1370-173 | 3927-930m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.84 |
| 1370-174 | 3930-932m | A 98% Siltstone, as 1370-173A | N4- 5YR4/1 | 0.91 |
| 1370-176 | 3935-937m | A 98% Siltstone, as 1370-173A | N4- 5YR4/1 | 0.84 |
| 1370-177 | 3937-940m | A 98% Siltstone, as 1370-173A | N4- 5YR4/1 | 0.81 |
| 1370-178 | 3940-942m | A 98% Silty shale/siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey Minor other shale | N4- 5YR4/1 | 0.86,0.87 |
| 1370-179 | 3942-945m | A 98% Silty shale, as 1370-178A Minor other shale | N4- 5YR4/1 | 0.82 |
| 1370-180 | 3945-947m | A 98% Silty shale, as 1370-178A Minor other shale | N4- 5YR4/1 | 0.88 |
| 1370-181 | 3947-950m | A 98% Silty shale, as 1370-178A Minor other shale | N4- 5YR4/1 | 0.88 |
| 1370-182 | 3950-952m | A 98% Silty shale, blocky, soft to mod. hard, non-calc., dark brownish grey to brownish black Minor other shale | 5YR3/1- 5YR2/1 | 0.86 |
| 1370-183 | 3952-955m | A 98% Silty shale, as 1370-182A | 5YR3/1- 5YR2/1 | 0.85 |
| 1370-184 | 3955-957m | A 98% Silty shale, as 1370-182A | 5YR3/1- 5YR2/1 | 0.89 |
| 1370-185 | 3957-960m | A 98% Silty shale, as 1370-182A | 5YR3/1- 5YR2/1 | 0.96 |



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ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|----------------|---|-------------------------|--|
| 1370-186 | 3960-962m | A 98% Silty shale, blocky, mod. hard, non-calc., medium dark grey to brownish grey Minor other shale | N4- 5YR4/1 | 0.97 |
| 1370-187 | 3962-965m | A 98% Silty shale, blocky, mod. hard, non-calc., medium dark grey to brownish grey Minor other shale | N4- 5YR4/1 | 1.07 |
| 1370-188 | 3965-967m | A 98% Silty shale, as 1370-187A Minor other shale | N4- 5YR4/1 | 1.26,1.25 |
| 1370-189 | 3967-970m | A 98% Silty shale, as 1370-187A | N4- 5YR4/1 | 1.52 |
| 1370-190 | 3970-932m | A 98% Silty shale, as 1370-187A | N4- 5YR4/1 | 1.25 |
| 1370-191 | 3972-975m | A 98% Silty shale, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 1.24 |
| 1370-192 | 3975-977m | A 98% Silty shale, as 1370-191A | N4- 5YR4/1 | 1.09,1.01 |
| 1370-193 | 3977-980m | A 98% Silty shale, as 1370-191A | N4- 5YR4/1 | 0.99,1.01 |
| 1370-194 | 3980-982m | A 98% Siltstone/silty shale, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.92 |
| 1370-195 | 3982-985m | A 98% Siltstone, as 1370-194A | N4- 5YR4/1 | 0.92 |
| 1370-196 | 3985-987m | A 98% Siltstone, as 1370-194A | N4- 5YR4/1 | 0.94 |
| 1370-197 | 3987-990m | A 98% Siltstone, as 1370-194A | N4- 5YR4/1 | 0.93 |
| 1370-198 | 3990-992m | A 98% Siltstone, as 1370-194A | N4- 5YR4/1 | 0.88,0.90 |
| 1370-199 | 3992-995m | A 98% Siltstone, as 1370-194A | N4- 5YR4/1 | 1.01 |
| 1370-200 | 3995-997m | A 98% Siltstone, as 1370-194A | N4- 5YR4/1 | 0.97 |
| 1370-201 | 3997- 4000m | A 98% Siltstone, as 1370-194A | N4- 5YR4/1 | 0.98,1.00 |
| 1370-202 | 4000-002m | A 98% Siltstone/silty shale, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.88,0.90 |
| 1370-203 | 4002-005m | A 98% Siltstone, as 1370-202A | N4- 5YR4/1 | 0.96 |

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Lost Circulation Material, moderately, occasionally, slightly, very



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ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|--|-------------------------|--|
| 1370-204 | 4005-007m | A 98% Siltstone/silty shale, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.93 |
| 1370-205 | 4007-010m | A 98% Siltstone, as 1370-204A | N4- 5YR4/1 | 1.36 |
| 1370-206 | 4010-012m | A 98% Siltstone, as 1370-204A | N4- 5YR4/1 | 1.02 |
| 1370-207 | 4012-015m | A 98% Siltstone, as 1370-204A | N4- 5YR4/1 | 0.98 |
| 1370-208 | 4015-017m | A 98% Siltstone, as 1370-204A | N4- 5YR4/1 | 1.12,1.14 |
| 1370-209 | 4017-020m | A 98% Siltstone, as 1370-204A | N4- 5YR4/1 | 0.95 |
| 1370-210 | 4020-022m | A 98% Siltstone/silty shale, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.81 |
| 1370-211 | 4022-025m | A 98% Siltstone, as 1370-210A | N4- 5YR4/1 | 1.09 |
| 1370-212 | 4025-027m | A 98% Siltstone, as 1370-210A | N4- 5YR4/1 | 1.09 |
| 1370-213 | 4027-030m | A 98% Siltstone, as 1370-210A | N4- 5YR4/1 | 1.06 |
| 1370-214 | 4030-032m | A 98% Siltstone, as 1370-210A | N4- 5YR4/1 | 0.93 |
| 1370-215 | 4032-035m | A 98% Siltstone, as 1370-210A | N4- 5YR4/1 | 0.95 |
| 1370-216 | 4035-037m | A 98% Siltstone, as 1370-210A | N4- 5YR4/1 | 1.02,1.04 |
| 1370-217 | 4037-040m | A 98% Siltstone, as 1370-210A | N4- 5YR4/1 | 0.88 |
| 1370-218 | 4040-042m | A 98% Siltstone/silty shale, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.96 |
| 1370-219 | 4042-045m | A 98% Siltstone, as 1370-218A | N4- 5YR4/1 | 0.97 |
| 1370-220 | 4043-047m | A 98% Siltstone, as 1370-218A | N4- 5YR4/1 | 1.03 |
| 1370-221 | 4047-050m | A 98% Siltstone, as 1370-218A | N4- 5YR4/1 | 1.15 |
| 1370-222 | 4050-052m | A 98% Siltstone, as 1370-218A | N4- 5YR4/1 | |

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Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|--|-------------------------|--|
| 1370-223 | 4052-055m | A 98% Siltstone/silty shale, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 1.07 |
| 1370-224 | 4055-057m | A 98% Siltstone, as 1370-223A | N4- 5YR4/1 | 1.12,1.10 |
| 1370-225 | 4057-060m | A 98% Siltstone, as 1370-223A | N4- 5YR4/1 | 1.03 |
| 1370-227 | 4062-065m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 1.06 |
| 1370-228 | 4065-067m | A 98% Siltstone, as 1370-227A | N3- 5YR4/1 | 1.08 |
| 1370-229 | 4067-070m | A 98% Siltstone, as 1370-227A | N3- 5YR4/1 | 0.91 |
| 1370-230 | 4070-072m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 0.44 |
| 1370-231 | 4072-075m | A 98% Siltstone, as 1370-230A | N3- 5YR4/1 | 1.03,1.02 |
| 1370-232 | 4075-077m | A 98% Siltstone, as 1370-230A | N3- 5YR4/1 | 0.93 |
| 1370-233 | 4077-080m | A 98% Siltstone, as 1370-230A | N3- 5YR4/1 | 0.89 |
| 1370-234 | 4080-082m | A 98% Siltstone, as 1370-230A | N3- 5YR4/1 | 1.13,0.99 |
| 1370-235 | 4082-085m | A 98% Siltstone, as 1370-230A | N3- 5YR4/1 | 1.06 |
| 1370-236 | 4085-087m | A 98% Siltstone, as 1370-230A | N3- 5YR4/1 | 0.98 |
| 1370-237 | 4087-090m | A 98% Siltstone, as 1370-230A | N3- 5YR4/1 | 0.99,1.00 |
| 1370-238 | 4090-092m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 0.85 |
| 1370-239 | 4092-095m | A 98% Siltstone, as 1370-238A | N3- 5YR4/1 | 1.12 |
| 1370-240 | 4095-097m | A 98% Siltstone, as 1370-238A | N3- 5YR4/1 | 0.98 |
| 1370-241 | 4093-100m | A 98% Siltstone, as 1370-238A | N3- 5YR4/1 | 0.98 |
| 1370-242 | 4100-102m | A 98% Siltstone, as 1370-238A | N3- 5YR4/1 | 0.58 |

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ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-243 | 4102-105m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 0.83 |
| 1370-244 | 4105-107m | A 98% Siltstone, as 1370-243A | N3- 5YR4/1 | 0.78 |
| 1370-245 | 4107-110m | A 98% Siltstone, as 1370-243A | N3- 5YR4/1 | 0.78,0.81 |
| 1370-246 | 4110-112m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 0.92 |
| 1370-247 | 4112-115m | A 98% Siltstone, as 1370-246A | N3- 5YR4/1 | 0.79 |
| 1370-248 | 4115-117m | A 98% Siltstone, as 1370-246A | N3- 5YR4/1 | 0.91 |
| 1370-249 | 4117-120m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 0.91 |
| 1370-250 | 4120-122m | A 98% Siltstone, as 1370-249A | N3- 5YR4/1 | 1.09 |
| 1370-251 | 4122-125m | A 98% Siltstone, as 1370-249A | N3- 5YR4/1 | 0.92 |
| 1370-252 | 4125-127m | A 98% Siltstone, as 1370-249A | N3- 5YR4/1 | 1.00,0.95 |
| 1370-253 | 4127-130m | A 98% Siltstone, as 1370-249A | N3- 5YR4/1 | 0.86 |
| 1370-254 | 4130-132m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 0.73 |
| 1370-256 | 4135-137m | A 98% Siltstone, as 1370-254A | N3- 5YR4/1 | 0.74 |
| 1370-257 | 4137-140m | A 98% Siltstone, as 1370-254A | N3- 5YR4/1 | 0.70 |
| 1370-258 | 4140-142m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 0.62 |
| 1370-259 | 4142-145m | A 98% Siltstone, as 1370-258A | N3- 5YR4/1 | 0.72 |
| 1370-260 | 4145-147m | A 98% Siltstone, as 1370-258A | N3- 5YR4/1 | 0.77 |
| 1370-261 | 4147-150m | A 98% Siltstone, as 1370-258A | N3- 5YR4/1 | 0.70 |
| 1370-262 | 4150-152m | A 98% Siltstone, as 1370-258A | N3- 5YR4/1 | 0.74 |

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Lost Circulation Material, moderately, occasionally, slightly, very



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| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-263 | 4152-155m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 0.56 |
| 1370-264 | 4155-157m | A 98% Siltstone, as 1370-263A | N3- 5YR4/1 | 0.62 |
| 1370-265 | 4157-160m | A 98% Siltstone, as 1370-263A | N3- 5YR4/1 | 0.71 |
| 1370-266 | 4160-162m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | |
| 1370-267 | 4162-165m | A 98% Siltstone, as 1370-266A | N3- 5YR4/1 | 0.75 |
| 1370-268 | 4165-167m | A 98% Siltstone, as 1370-266A | N3- 5YR4/1 | 0.73 |
| 1370-269 | 4167-170m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 0.70, 0.66 |
| 1370-270 | 4170-172m | A 98% Siltstone, as 1370-269A | N3- 5YR4/1 | 0.59, 0.63 |
| 1370-271 | 4172-175m | A 98% Siltstone, as 1370-269A | N3- 5YR4/1 | 0.70 |
| 1370-272 | 4175-177m | A 98% Siltstone, as 1370-269A | N3- 5YR4/1 | 0.66 |
| 1370-273 | 4177-180m | A 98% Siltstone, as 1370-269A | N3- 5YR4/1 | 1.18 |
| 1370-274 | 4180-182m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey Minor LCM - grease/lignite | N3- 5YR4/1 | 2.03 |
| 1370-275 | 4182-185m | A 98% Siltstone, as 1370-274A | N3- 5YR4/1 | 1.57 |
| 1370-276 | 4185-187m | A 98% Siltstone, as 1370-274A | N3- 5YR4/1 | 2.22, 2.16 |
| 1370-277 | 4187-190m | A 98% Siltstone, as 1370-274A | N3- 5YR4/1 | 2.34 |
| 1370-278 | 4190-192m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey Minor LCM | N3- 5YR4/1 | 1.12 |
| 1370-279 | 4192-195m | A 98% Siltstone, as 1370-278A | N3- 5YR4/1 | 2.55 |
| 1370-280 | 4195-197m | A 98% Siltstone, as 1370-278A | N3- 5YR4/1 | 2.16 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



**TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS**

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|--|-------------------------|--|
| 1370-281 | 4197-200m | A 98% Siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey | N3- 5YR4/1 | 1.31 |
| 1370-282 | 4200-202m | A 98% Siltstone, as 1370-281A | N3- 5YR4/1 | |
| 1370-283 | 4202-205m | A 98% Siltstone, as 1370-281A | N3- 5YR4/1 | 0.79 |
| 1370-284 | 2405-207m | A 98% Siltstone, as 1370-281A | N3- 5YR4/1 | 0.80,0.76 |
| 1370-285 | 4207-210m | A 98% Siltstone, as 1370-281A | N3- 5YR4/1 | 0.79 |
| 1370-286 | 4210-212m | A 98% Siltstone, blocky, mod. hard, non-calc., brownish grey to dark brownish grey | 5YR4/1- 5YR3/1 | 0.79,0.78 |
| 1370-287 | 4212-215m | A 98% Siltstone, as 1370-286A | 5YR4/1- 5YR3/1 | 0.85 |
| 1370-288 | 4215-217m | A 98% Siltstone, as 1370-286A | 5YR4/1- 5YR3/1 | 0.86 |
| 1370-289 | 4217-220m | A 98% Siltstone, as 1370-286A | 5YR4/1- 5YR3/1 | 0.82 |
| 1370-290 | 4220-222m | A 98% Siltstone, blocky, mod. hard, non-calc., medium dark grey to brownish grey | N4- 5YR4/1 | 0.76 |
| 1370-292 | 4222-225m | A 98% Siltstone, as 1370-290A | N4- 5YR4/1 | 0.98,0.96 |
| 1370-293 | 4225-227m | A 98% Siltstone, as 1370-290A | N4- 5YR4/1 | 0.94,0.93 |
| 1370-294 | 4227-230m | A 98% Siltstone, as 1370-290A | N4- 5YR4/1 | 0.95 |
| 1370-295 | 4232-235m | A 98% Siltstone, as 1370-290A | N4- 5YR4/1 | 0.96 |
| 1370-296 | 4235-237m | A 98% Siltstone, as 1370-290A | N4- 5YR4/1 | 0.97 |
| 1370-297 | 4237-240m | A 98% Siltstone, as 1370-290A | N4- 5YR4/1 | 1.07,1.06 |
| 1370-298 | 4240-242m | A 98% Siltstone, blocky, mod. hard, non-calc., brownish grey to dark brownish grey | 5YR4/1- 5YR3/1 | 1.09 |
| 1370-299 | 4242-245m | A 98% Siltstone, as 1370-298A | 5YR4/1- 5YR3/1 | 1.11 |
| 1370-300 | 4245-247m | A 98% Siltstone, as 1370-298A | 5YR4/1- 5YR3/1 | 1.01 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|--|-------------------------|--|
| 1370-301 | 4247-250m | A 98% Siltstone, blocky, mod. hard, non-calc., brownish grey to dark brownish grey | 5YR4/1- 5YR3/1 | 0.68 |
| 1370-302 | 4250-252m | A 95% Siltstone, as 1370-301A B 5% LCM - mica, walnut shell | 5YR4/1- 5YR3/1 | 1.57 |
| 1370-303 | 4252-255m | A 75% Siltstone, as 1370-301A B 25% LCM - mica, walnut shell | 5YR4/1- 5YR3/1 | 0.68 |
| 1370-304 | 4255-257m | A 80% Siltstone, blocky, mod. hard, non-calc., brownish grey to dark brownish grey B 20% LCM - mica, nut shell | 5YR4/1- 5YR3/1 | 0.85 |
| 1370-305 | 4257-260m | A 90% LCM - mica, nut shell B 10% Siltstone, as 1370-304A | 5YR4/1- 5YR3/1 | 0.91 |
| 1370-306 | 4260-262m | A 80% Silty shale, blocky, soft to mod. hard, non-calc., medium dark grey to brownish grey B 20% LCM - mica | N4- 5YR4/1 | 0.94 |
| 1370-307 | 4262-265m | A 80% Silty shale, as 1370-306A B 20% LCM - mica | N4- 5YR4/1 | 0.90, 0.95 |
| 1370-308 | 4265-267m | A 90% Shale, platy to subfissile, mod. hard, non-calc., sl. silty, medium grey to medium dark grey B 10% LCM - mica | N5-4 | 0.76 |
| 1370-309 | 4267-270m | A 75% Shale, as 1370-208A B 25% LCM - mica | N5-4 | 0.59 |
| 1370-310 | 4270-272m | A 98% Shale, subfissile to platy, soft to mod. hard, non-calc., sl. micaceous, medium dark grey to medium grey Minor LCM - mica | N4-5 | 0.75 |
| 1370-311 | 4272-275m | A 70% LCM - cement and metal B 30% Shale, as 1370-310A | N4-5 | 0.32 |
| 1370-312 | 4275-277m | A 95% LCM - cement B <5% Shale, as 1370-310A | N4-5 | 0.28 |
| 1370-313 | 4277-280m | A 70% LCM - cement and metal B 30% Shale, as 1370-310A | N4-5 | 0.34, 0.34 |
| 1370-314 | 4280-282m | A 60% Shale, subfissile to platy, soft to mod hard, non-calc., medium grey to medium dark grey B 40% LCM - cement and metal | N5-4 | 0.34 |
| 1370-315 | 4282-285m | A 55% LCM - cement and metal B 45% Shale, as 1370-314A | N5-4 | 0.29 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-316 | 4285-287m | A 50% Shale, subfissile, soft, sl. silty, non-calc., medium grey to medium dark grey B 50% LCM - cement | N5-4 | 0.28 |
| 1370-317 | 4287-290m | A 40% LCM - cement B 30% Shale, as 1370-316A C 30% Sandstone, blocky, fine to medium grained, well sorted, v. light grey to light grey | N5-4 N8-7 | 0.24 |
| 1370-318 | 4290-292m | A 40% LCM - cement, mica and fibre B 35% Silty sandstone, blocky, fine grained, micaceous, light grey C 25% Silty shale, platy to subfissile, mod. hard, non-calc., medium grey | N7 N5 | |
| 1370-319 | 4292-295m | A 40% Silty sandstone, as 1370-318B B 35% LCM - cement C 25% Silty shale, as 1370-318C | N7 N5 | 0.27 |
| 1370-320 | 4295-297m | A 50% Silty sandstone, as 1370-318B B 35% LCM - cement and metal C 15% Silty shale, as 1370-318C | N7 N5 | 0.36 |
| 1370-321 | 4297-300m | A 90% Silty shale/siltstone, blocky, mod. hard, non-calc., medium dark grey to medium grey B 10% LCM - cement and metal | N4-5 | 0.43,0.46 |
| 1370-322 | 4300-302m | A 95% Silty shale/siltstone, blocky, mod. hard, non-calc., dark grey to brownish grey B 5% LCM - cement | N3- 5YR4/1 | 0.35 |
| 1370-345 | 4695-697m | A 98% Siltstone/silty shale, blocky, mod. hard, non-calc., pinkish grey Minor other shale | 5YR8/1 | 0.68 |
| 1370-346 | 4700-702m | A 98% Siltstone, as 1370-345A Minor other shale | 5YR8/1 | 0.95 |
| 1370-347 | 4705-707m | A 90% Siltstone, as 1370-345A B 10% Shale, thinly fissile, mod. hard, non-calc., minor cavings, medium dark grey | 5YR8/1 N4 | 0.66 0.41 |
| 1370-348 | 4710-712m | A 98% Silty shale, platy to thinly fissile, mod. hard, non-calc., medium grey Minor LCM | N5 | 0.81 |
| 1370-349 | 4725-727m | A 98% Shale, subfissile to platy, soft to mod. hard, sl. silty, non-calc., medium dark grey to medium grey Minor siltstone and sandstone | N4-5 | 0.52,0.52 |
| 1370-350 | 4732-735m | A 95% Shale, as 1370-349A B 5% Silty sandstone, blocky, fine grained, medium light grey | N4-5 N6 | 0.62,0.60 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------|-----------|--|-------------------|--------------------------------------|
| 1370-351 | 4745-747m | A 98% Shale, subfissile to platy, soft to mod. hard, sl. silty, non-calc., medium dark grey to medium grey Minor sandstone | N4-5 | 0.63 |
| 1370-352 | 4757-760m | A 98% Shale, as 1370-351A, minor cavings Minor sandstone Minor LCM - metal | N4-5 | 0.45 |
| 1370-353 | 4762-765m | A 98% Shale, platy, mod. hard, non-calc., sl. silty, dark grey to brownish grey Minor sandstone | N3-5YR4/1 | 0.94 |
| 1370-354 | 4767-770m | A 98% Shale, as 1370-353A, minor cavings | N3-5YR4/1 | 0.62 |
| 1370-344 | 4770m SWC | A 98% Silty shale, subfissile, mod. hard, non-calc., medium dark grey | N4 | |
| 1370-355 | 4775-777m | A 98% Silty shale, subfissile, soft to mod. hard, non-calc., minor cavings, dark grey to brownish grey Minor LCM - metal | N3-5YR4/1 | 1.07 |
| 1370-356 | 4777-780m | A 95% Silty shale, as 1370-355A, minor cavings B 5% LCM - metal Minor other shale | N3-5YR4/1 | 0.72,0.72 |
| 1370-357 | 4787-790m | A 95% Silty shale, subfissile, soft to mod. hard, non-calc., minor cavings, dark grey to medium dark grey B 5% Shale, platy to subfissile, mod. hard, non-calc., medium dark grey | N3-4 N4 | 0.76 |
| 1370-323 | 4790-792m | A 98% Shale, platy to thinly fissile, mod. hard, non-calc., minor cavings, dark grey Minor LCM | N3 | 0.55 |
| 1370-324 | 4792-795m | A 55% LCM - cement B 45% Shale, as 1370-323A | N3 | 0.69 |
| 1370-326 | 4797-800m | A 50% Shale, subfissile, soft to mod. hard, sl. silty, non-calc., dark grey to greyish black B 50% LCM - lignite, metal | N3-2 | 1.32 |
| 1370-327 | 4800-802m | A 95% LCM - cement and lignite B 5% Shale, platy, soft to mod. hard, non-calc., dark grey to greyish black | N3-2 | |
| 1370-328 | 4802-805m | A 70% Shale, as 1370-327B B 30% LCM - cement | N3-2 | 2.15 |
| 1370-329 | 4805-807m | A 70% Shale, as 1370-327B B 30% LCM - cement and lignite | N3-2 | 2.36,2.42 |

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomitic, Fluorescence, foraminifera, fossiliferous
Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

| GEOCHEM SAMPLE NUMBER | DEPTH | GROSS LITHOLOGIC DESCRIPTION | G S A Colour Code | TOTAL ORGANIC CARBON (Wt. % of Rock) |
|-----------------------------|-----------|---|-------------------------|--|
| 1370-343 SWC | 4808.1m | A 98% Siltstone, blocky to subfissile, soft, non-calc., medium grey to medium dark grey | N5-4 | |
| 1370-330 | 4807-810m | A 75% Shale, platy, soft to mod. hard, non-calc., dark grey to greyish black B 25% LCM - cement and lignite | N3-2 | 2.16 |
| 1370-331 | 4810-812m | A 75% Shale, as 1370-330A B 25% LCM - cement | N3-2 | 1.11 |
| 1370-358 | 4812-815m | A 80% Silty shale, subfissile, soft to mod. hard, non-calc., minor cavings, dark grey to medium dark grey B 15% LCM - cement C <5% Shale, platy to subfissile, mod. hard, non-calc., medium dark grey | N3-4 N4 | 1.10 |
| 1370-359 | 4817-820m | A 85% Silty shale, as 1370-358A B 10% Shale, as 1370-358C C 5% LCM - cement | N3-4 N4 | 0.87 |



TABLE 2

STANDARD PYROLYSIS DATA

| GEOCHEM SAMPLE NUMBER | DEPTH | ORGANIC CARBON | S1 (mg/g) | S2 (mg/g) | PRODUCTION INDEX | HYDROGEN INDEX | Tmax (° C) |
|-----------------------------|-----------|-------------------|--------------|--------------|---------------------|-------------------|---------------|
| 1370-001A | 2700-2702 | 0.43 | 0.22 | 0.74 | 0.23 | 172.1 | 444 |
| 1370-001B | 2700-2702 | 0.55 | 0.42 | 0.56 | 0.43 | 101.8 | 415 |
| 1370-002A | 2702-2705 | 0.45 | 0.20 | 0.81 | 0.20 | 180.0 | 454 |
| 1370-002B | 2702-2705 | 0.18 | 0.07 | 0.06 | 0.54 | 33.3 | 450 |
| 1370-003A | 2705-2707 | 0.42 | 0.11 | 0.83 | 0.12 | 197.6 | 454 |
| 1370-004A | 2707-2710 | 0.32 | 0.13 | 0.74 | 0.15 | 231.2 | 451 |
| 1370-005A | 2710-2712 | 0.34 | 0.12 | 0.44 | 0.21 | 129.4 | 467 |
| 1370-005B | 2710-2712 | 0.45 | 0.22 | 0.41 | 0.35 | 91.1 | 498 |
| 1370-006A | 2712-2715 | 0.48 | 0.11 | 0.50 | 0.18 | 104.2 | 471 |
| 1370-006B | 2712-2715 | 0.19 | 0.06 | 0.13 | 0.32 | 68.4 | 355 |
| 1370-007A | 2715-2717 | 0.51 | 0.10 | 0.40 | 0.20 | 78.4 | 451 |
| 1370-007B | 2715-2717 | | 0.07 | 0.14 | 0.33 | | 477 |
| 1370-008A | 2717-2720 | 0.78 | 0.10 | 0.67 | 0.13 | 85.9 | 452 |
| 1370-008B | 2717-2720 | 0.61 | 0.09 | 0.21 | 0.30 | 34.4 | 343 |
| 1370-008C | 2717-2720 | 1.06 | 0.13 | 0.31 | 0.30 | 29.2 | 436 |
| 1370-009A | 2720-2722 | | 0.11 | 0.31 | 0.26 | | 430 |
| 1370-009B | 2720-2722 | 0.41 | 0.12 | 0.25 | 0.32 | 61.0 | 423 |
| 1370-009C | 2720-2722 | 0.70 | 0.13 | 0.37 | 0.26 | 52.9 | 449 |
| 1370-010A | 2722-2725 | 0.49 | 0.16 | 0.64 | 0.20 | 130.6 | 458 |
| 1370-010B | 2722-2725 | 0.59 | 0.06 | 0.50 | 0.11 | 84.7 | 451 |
| 1370-010C | 2722-2725 | 0.71 | 0.07 | 0.08 | 0.47 | 11.3 | 460 |
| 1370-011A | 2725-2727 | 0.76 | 0.10 | 0.56 | 0.15 | 73.7 | 448 |
| 1370-011B | 2725-2727 | 0.48 | 0.04 | 0.08 | 0.33 | 16.7 | 443 |
| 1370-011C | 2725-2727 | 0.76 | 0.07 | 0.27 | 0.21 | 35.5 | 450 |
| 1370-012A | 2727-2730 | 0.78 | 0.14 | 0.44 | 0.24 | 56.4 | 460 |
| 1370-012B | 2727-2730 | 0.82 | 0.05 | 0.19 | 0.21 | 23.2 | 438 |
| 1370-012C | 2727-2730 | 0.48 | 0.12 | 0.37 | 0.24 | 77.1 | 436 |
| 1370-013A | 2730-2732 | 0.38 | 0.18 | 0.48 | 0.27 | 126.3 | 447 |
| 1370-013B | 2730-2732 | 0.43 | 0.13 | 0.25 | 0.34 | 58.1 | 447 |
| 1370-014A | 2732-2735 | 0.74 | 0.11 | 0.52 | 0.17 | 70.3 | 448 |
| 1370-014B | 2732-2735 | 0.76 | 0.09 | 0.51 | 0.15 | 67.1 | 454 |
| 1370-015A | 2735-2737 | 0.69 | 0.14 | 1.05 | 0.12 | 152.2 | 448 |
| 1370-015B | 2735-2737 | 0.82 | 0.11 | 0.42 | 0.21 | 51.2 | 447 |
| 1370-016B | 2737-2740 | 0.81 | 0.07 | 0.33 | 0.17 | 40.7 | 445 |
| 1370-017A | 2740-2742 | 0.43 | 0.07 | 0.34 | 0.17 | 79.1 | 443 |
| 1370-017B | 2740-2742 | 0.48 | 0.09 | 0.22 | 0.29 | 45.8 | 559 |
| 1370-018B | 2742-2745 | 0.91 | 0.07 | 0.18 | 0.28 | 19.8 | 424 |
| 1370-018C | 2742-2745 | 0.78 | 0.09 | 0.19 | 0.32 | 24.4 | 446 |
| 1370-019B | 2745-2747 | 0.88 | 0.08 | 0.17 | 0.32 | 19.3 | 443 |
| 1370-020B | 2747-2750 | 0.81 | 0.11 | 0.28 | 0.28 | 34.6 | 435 |
| 1370-021B | 2750-2752 | 0.61 | 0.12 | 0.26 | 0.32 | 42.6 | 425 |
| 1370-022B | 2752-2755 | 0.83 | 0.09 | 0.27 | 0.25 | 32.5 | 444 |
| 1370-023B | 2755-2757 | 1.08 | 0.08 | 0.61 | 0.12 | 56.5 | 441 |
| 1370-024B | 2757-2760 | 0.76 | 0.07 | 0.25 | 0.22 | 32.9 | 447 |
| 1370-025B | 2760-2762 | 0.59 | 0.14 | 0.23 | 0.38 | 39.0 | 451 |
| 1370-026B | 2762-2765 | 0.83 | 0.32 | 0.25 | 0.56 | 30.1 | 450 |
| 1370-027B | 2765-2767 | 0.61 | 0.05 | 0.12 | 0.29 | 19.7 | 449 |
| 1370-028B | 2767-2770 | 0.82 | 0.08 | 0.24 | 0.25 | 29.3 | 460 |
| 1370-029B | 2770-2772 | | 0.17 | 0.33 | 0.34 | | 502 |
| 1370-030B | 2772-2775 | 1.38 | 0.10 | 0.68 | 0.13 | 49.3 | 446 |



TABLE 2

STANDARD PYROLYSIS DATA

| GEOCHEM SAMPLE NUMBER | DEPTH | ORGANIC CARBON | S1 (mg/g) | S2 (mg/g) | PRODUCTION INDEX | HYDROGEN INDEX | Tmax (°C) |
|-----------------------------|-----------|-------------------|--------------|--------------|---------------------|-------------------|--------------|
| 1370-031B | 2775-2777 | 1.20 | 0.12 | 0.49 | 0.20 | 40.8 | 442 |
| 1370-032C | 2777-2780 | 0.36 | 0.07 | 0.17 | 0.29 | 47.2 | 431 |
| 1370-032B | 2777-2780 | 0.43 | 0.20 | 0.23 | 0.47 | 53.5 | 386 |
| 1370-033B | 2780-2782 | 0.86 | 0.11 | 0.26 | 0.30 | 30.2 | 450 |
| 1370-033C | 2780-2782 | 0.39 | 0.15 | 0.16 | 0.48 | 41.0 | 391 |
| 1370-034B | 2782-2785 | 0.25 | 0.11 | 0.13 | 0.46 | 52.0 | 459 |
| 1370-034C | 2782-2785 | 0.36 | 0.06 | 0.16 | 0.27 | 44.4 | 441 |
| 1370-035A | 2785-2787 | 0.32 | 0.03 | 0.02 | 0.60 | 6.2 | 451 |
| 1370-035C | 2785-2787 | 0.41 | 0.03 | 0.14 | 0.18 | 34.1 | 453 |
| 1370-036A | 2787-2790 | 0.22 | 0.07 | 0.20 | 0.26 | 90.9 | 498 |
| 1370-036B | 2787-2790 | 0.37 | 0.05 | 0.27 | 0.16 | 73.0 | 440 |
| 1370-037A | 2790-2792 | 0.41 | 0.15 | 0.16 | 0.48 | 39.0 | 419 |
| 1370-037B | 2790-2792 | 0.52 | 0.14 | 0.33 | 0.30 | 63.5 | 425 |
| 1370-038A | 2792-2795 | 0.22 | 0.05 | 0.10 | 0.33 | 45.5 | 452 |
| 1370-038B | 2792-2795 | 0.21 | 0.03 | 0.08 | 0.27 | 38.1 | 286 |
| 1370-038C | 2792-2795 | 0.50 | 0.10 | 0.44 | 0.19 | 88.0 | 441 |
| 1370-039A | 2795-2797 | 0.22 | 0.30 | 0.05 | 0.86 | 22.7 | 290 |
| 1370-039B | 2795-2797 | 0.26 | 0.05 | 0.23 | 0.18 | 88.5 | 518 |
| 1370-039C | 2795-2797 | 0.39 | 0.03 | 0.11 | 0.21 | 28.2 | 437 |
| 1370-040A | 2797-2800 | 0.22 | 0.04 | 0.12 | 0.25 | 54.5 | 414 |
| 1370-040B | 2797-2800 | 0.21 | 0.05 | 0.13 | 0.28 | 61.9 | 435 |
| 1370-040C | 2797-2800 | 0.44 | 0.24 | 0.80 | 0.23 | 181.8 | 438 |
| 1370-041A | 2800-2802 | 0.44 | 0.13 | 0.39 | 0.25 | 88.6 | 429 |
| 1370-041B | 2800-2802 | | 0.09 | 0.10 | 0.47 | | 436 |
| 1370-041C | 2800-2802 | | 0.07 | 0.07 | 0.50 | | 458 |
| 1370-042A | 2802-2805 | 0.26 | 0.06 | 0.22 | 0.21 | 84.6 | 510 |
| 1370-042B | 2802-2805 | 0.21 | 0.03 | 0.01 | 0.75 | 4.8 | 368 |
| 1370-042C | 2802-2805 | 0.33 | 0.04 | 0.10 | 0.29 | 30.3 | 370 |
| 1370-043A | 2805-2807 | 0.19 | 0.05 | 0.80 | 0.06 | 421.1 | 483 |
| 1370-043B | 2805-2807 | 0.16 | 0.04 | 0.13 | 0.24 | 81.2 | 350 |
| 1370-043D | 2805-2807 | 0.34 | 0.03 | 0.11 | 0.21 | 32.4 | 353 |
| 1370-044B | 2807-2810 | 0.18 | 0.06 | 0.12 | 0.33 | 66.7 | 362 |
| 1370-044D | 2807-2810 | 0.45 | 0.06 | 0.25 | 0.19 | 55.6 | 452 |
| 1370-044A | 2807-2810 | 0.33 | 0.06 | 0.20 | 0.23 | 60.6 | 439 |
| 1370-045A | 2810-2812 | 0.25 | 0.08 | 0.11 | 0.42 | 44.0 | 428 |
| 1370-045B | 2810-2812 | | 0.07 | 0.09 | 0.44 | | 439 |
| 1370-045C | 2810-2812 | 0.22 | 0.06 | 0.06 | 0.50 | 27.3 | 444 |
| 1370-046C | 2812-2815 | 0.70 | 0.44 | 1.27 | 0.26 | 181.4 | 435 |
| 1370-046B | 2812-2815 | 0.77 | 0.29 | 0.56 | 0.34 | 72.7 | 399 |
| 1370-046D | 2812-2815 | 0.95 | 0.29 | 0.80 | 0.27 | 84.2 | 446 |
| 1370-047D | 2815-2817 | 0.56 | 0.03 | 0.26 | 0.10 | 46.4 | 365 |
| 1370-047B | 2815-2817 | 0.40 | 0.08 | 0.29 | 0.22 | 72.5 | 442 |
| 1370-047C | 2815-2817 | 0.39 | 0.11 | 0.18 | 0.38 | 46.2 | 389 |
| 1370-048B | 2817-2820 | 0.56 | 0.05 | 0.15 | 0.25 | 26.8 | 362 |
| 1370-048C | 2817-2820 | 0.55 | 0.05 | 0.21 | 0.19 | 38.2 | 360 |
| 1370-048D | 2817-2820 | 0.32 | 0.07 | 0.16 | 0.30 | 50.0 | 389 |
| 1370-049A | 2820-2822 | 0.31 | 0.06 | 0.17 | 0.26 | 54.8 | 450 |
| 1370-049B | 2820-2822 | 0.35 | 0.02 | 0.13 | 0.13 | 37.1 | 441 |
| 1370-049C | 2820-2822 | 0.25 | 0.04 | 0.08 | 0.33 | 32.0 | 427 |
| 1370-050B | 2822-2825 | | 0.08 | 0.30 | 0.21 | | 435 |



TABLE 2

STANDARD PYROLYSIS DATA

| GEOCHEM SAMPLE NUMBER | DEPTH | ORGANIC CARBON | S1 (mg/g) | S2 (mg/g) | PRODUCTION INDEX | HYDROGEN INDEX | Tmax (° C) |
|-----------------------------|-----------|-------------------|--------------|--------------|---------------------|-------------------|---------------|
| 1370-050C | 2822-2825 | 0.85 | 0.15 | 0.43 | 0.26 | 50.6 | 424 |
| 1370-051A | 2825-2827 | 0.53 | 0.13 | 0.37 | 0.26 | 69.8 | 446 |
| 1370-051B | 2825-2827 | 0.58 | 0.24 | 0.51 | 0.32 | 87.9 | 453 |
| 1370-052B | 2827-2830 | 0.49 | 0.12 | 0.29 | 0.29 | 59.2 | 402 |
| 1370-053A | 2830-2832 | | 0.17 | 0.65 | 0.21 | | 439 |
| 1370-053B | 2830-2832 | 0.42 | 0.11 | 0.24 | 0.31 | 57.1 | 444 |
| 1370-054B | 2832-2835 | 0.87 | 0.19 | 0.35 | 0.35 | 40.2 | 449 |
| 1370-056B | 2837-2840 | 0.88 | 0.12 | 0.25 | 0.32 | 28.4 | 517 |
| 1370-057A | 2840-2842 | 0.39 | 0.15 | 0.62 | 0.19 | 159.0 | 444 |
| 1370-057B | 2840-2842 | 0.73 | 0.13 | 0.45 | 0.22 | 61.6 | 447 |
| 1370-058B | 2842-2845 | 1.15 | 0.15 | 0.13 | 0.54 | 11.3 | 447 |
| 1370-059B | 2845-2847 | 0.58 | 0.11 | 0.27 | 0.29 | 46.6 | 447 |
| 1370-060B | 2847-2850 | 0.75 | 0.11 | 0.24 | 0.31 | 32.0 | 455 |
| 1370-061A | 2850-2852 | 0.39 | 0.07 | 0.41 | 0.15 | 105.1 | 449 |
| 1370-061B | 2850-2852 | 0.45 | 0.06 | 0.10 | 0.38 | 22.2 | 331 |
| 1370-062B | 2852-2855 | 0.65 | 0.09 | 0.16 | 0.36 | 24.6 | 452 |
| 1370-063B | 2857-2860 | 0.91 | 0.17 | 0.99 | 0.15 | 108.8 | 532 |
| 1370-064B | 2860-2862 | 0.49 | 0.16 | 0.37 | 0.30 | 75.5 | 438 |
| 1370-065B | 2862-2865 | 0.85 | 0.11 | 0.24 | 0.31 | 28.2 | 443 |
| 1370-066B | 2865-2867 | 1.06 | 0.15 | 0.57 | 0.21 | 53.8 | 437 |
| 1370-067B | 2867-2870 | 1.35 | 0.13 | 0.81 | 0.14 | 60.0 | 448 |
| 1370-068B | 2870-2872 | 1.71 | 0.19 | 1.88 | 0.09 | 109.9 | 445 |
| 1370-069B | 2872-2875 | 1.18 | 0.17 | 0.57 | 0.23 | 48.3 | 449 |
| 1370-070B | 2875-2877 | 1.07 | 0.11 | 0.31 | 0.26 | 29.0 | 453 |
| 1370-071B | 2877-2880 | 0.72 | 0.13 | 0.49 | 0.21 | 68.1 | 445 |
| 1370-072A | 2880-2882 | 0.51 | 0.12 | 0.59 | 0.17 | 115.7 | 444 |
| 1370-072C | 2880-2882 | 0.49 | 0.10 | 0.21 | 0.32 | 42.9 | 455 |
| 1370-073B | 2882-2885 | 0.84 | 0.10 | 0.28 | 0.26 | 33.3 | 321 |
| 1370-074B | 2885-2887 | 0.62 | 0.10 | 0.25 | 0.29 | 40.3 | 369 |
| 1370-074C | 2885-2887 | 0.17 | 0.11 | 0.07 | 0.61 | 41.2 | |
| 1370-075B | 2887-2890 | 0.72 | 0.11 | 1.04 | 0.10 | 144.4 | 450 |
| 1370-076A | 2890-2892 | 0.55 | 0.28 | 1.20 | 0.19 | 218.2 | 501 |
| 1370-077B | 2892-2895 | 0.84 | 0.12 | 0.54 | 0.18 | 64.3 | 499 |
| 1370-077C | 2892-2895 | 0.29 | 0.25 | 0.19 | 0.57 | 65.5 | |
| 1370-078B | 2895-2897 | 0.87 | 0.14 | 1.19 | 0.11 | 136.8 | 453 |
| 1370-079B | 2897-2900 | 0.74 | 0.12 | 0.92 | 0.12 | 124.3 | 453 |
| 1370-080B | 2912-2915 | 0.56 | 0.09 | 0.30 | 0.23 | 53.6 | 451 |
| 1370-081B | 2915-2917 | 0.64 | 0.11 | 0.26 | 0.30 | 40.6 | 448 |
| 1370-082B | 2917-2920 | 0.80 | 0.37 | 0.87 | 0.30 | 108.7 | 442 |
| 1370-083A | 2920-2922 | 0.51 | 0.09 | 0.25 | 0.26 | 49.0 | 444 |
| 1370-084B | 2922-2925 | 0.57 | 0.09 | 0.35 | 0.20 | 61.4 | 436 |
| 1370-085B | 2925-2927 | 0.64 | 0.44 | 1.39 | 0.24 | 217.2 | 433 |
| 1370-086B | 2927-2930 | 0.65 | 0.19 | 0.45 | 0.30 | 69.2 | 453 |
| 1370-088B | 2932-2935 | 0.57 | 0.06 | 0.30 | 0.17 | 52.6 | 445 |
| 1370-089B | 2935-2937 | 0.65 | 0.11 | 0.31 | 0.26 | 47.7 | 450 |
| 1370-090B | 2937-2940 | 0.66 | 0.06 | 0.22 | 0.21 | 33.3 | 446 |
| 1370-091B | 2940-2942 | 0.89 | 0.24 | 0.53 | 0.31 | 59.6 | 430 |
| 1370-092B | 2942-2945 | 0.50 | 0.07 | 0.17 | 0.29 | 34.0 | 438 |
| 1370-093B | 2945-2947 | 0.46 | 0.06 | 0.15 | 0.29 | 32.6 | 450 |
| 1370-094B | 2947-2950 | 0.59 | 0.07 | 0.22 | 0.24 | 37.3 | 359 |



TABLE 2

STANDARD PYROLYSIS DATA

| GEOCHEM SAMPLE NUMBER | DEPTH | ORGANIC CARBON | S1 (mg/g) | S2 (mg/g) | PRODUCTION INDEX | HYDROGEN INDEX | Tmax (°C) |
|-----------------------------|-----------|-------------------|--------------|--------------|---------------------|-------------------|--------------|
| 1370-095A | 2962-2965 | 0.41 | 0.29 | 0.31 | 0.48 | 75.6 | 530 |
| 1370-096B | 2965-2967 | 0.98 | 0.15 | 0.83 | 0.15 | 84.7 | 439 |
| 1370-097B | 2967-2970 | 0.41 | 0.05 | 0.10 | 0.33 | 24.4 | 445 |
| 1370-098A | 2970-2972 | 0.36 | 0.11 | 0.45 | 0.20 | 125.0 | 350 |
| 1370-098C | 2970-2972 | 0.35 | 0.09 | 0.22 | 0.29 | 62.9 | 445 |
| 1370-099B | 2972-2975 | 0.63 | 0.14 | 0.40 | 0.26 | 63.5 | 532 |
| 1370-100B | 2975-2977 | 0.53 | 0.13 | 0.33 | 0.28 | 62.3 | 447 |
| 1370-101B | 2977-2980 | 0.60 | 0.08 | 0.27 | 0.23 | 45.0 | 453 |
| 1370-102B | 2980-2982 | 0.53 | 0.13 | 0.43 | 0.23 | 81.1 | 465 |
| 1370-103B | 2982-2985 | 0.55 | 0.07 | 0.20 | 0.26 | 36.4 | 449 |
| 1370-104B | 2985-2987 | 0.53 | 0.09 | 0.21 | 0.30 | 39.6 | 447 |
| 1370-105B | 2987-3000 | 0.93 | 0.18 | 0.60 | 0.23 | 64.5 | 440 |
| 1370-106B | 2990-2992 | 0.43 | 0.09 | 0.19 | 0.32 | 44.2 | 458 |
| 1370-107B | 2992-2995 | 0.42 | 0.05 | 0.12 | 0.29 | 28.6 | 361 |
| 1370-108B | 2995-2997 | 0.63 | 0.10 | 0.30 | 0.25 | 47.6 | 449 |
| 1370-109B | 2997-3000 | 0.53 | 0.06 | 0.10 | 0.38 | 18.9 | 435 |
| 1370-110B | 3000-3002 | 0.78 | 0.17 | 0.59 | 0.22 | 75.6 | 430 |
| 1370-111B | 3002-3005 | 1.06 | 0.10 | 0.85 | 0.11 | 80.2 | 445 |
| 1370-112B | 3005-3007 | 0.79 | 0.09 | 0.34 | 0.21 | 43.0 | 446 |
| 1370-113B | 3007-3010 | 0.71 | 0.08 | 0.29 | 0.22 | 40.8 | 449 |
| 1370-115B | 3012-3015 | 0.54 | 0.10 | 0.18 | 0.36 | 33.3 | |
| 1370-116B | 3015-3017 | 0.56 | 0.09 | 0.26 | 0.26 | 46.4 | 440 |
| 1370-117B | 3017-3020 | 0.74 | 0.09 | 0.45 | 0.17 | 60.8 | 448 |
| 1370-118B | 3020-3022 | 0.58 | 0.06 | 0.23 | 0.21 | 39.7 | 448 |
| 1370-119B | 3022-3025 | 0.66 | 0.07 | 0.30 | 0.19 | 45.5 | 440 |
| 1370-120B | 3025-3027 | 1.40 | 0.19 | 1.52 | 0.11 | 108.6 | 447 |
| 1370-121B | 3027-3030 | 0.76 | 0.09 | 0.54 | 0.14 | 71.1 | 444 |
| 1370-122A | 3800-3802 | 0.88 | 0.18 | 0.17 | 0.51 | 19.3 | |
| 1370-123A | 3802-3805 | 0.92 | 0.18 | 0.17 | 0.51 | 18.5 | 423 |
| 1370-124A | 3805-3807 | 0.97 | 0.16 | 0.14 | 0.53 | 14.4 | 454 |
| 1370-125A | 3807-3810 | 0.92 | 0.16 | 0.23 | 0.41 | 25.0 | 438 |
| 1370-126A | 3810-3812 | 0.94 | 0.21 | 0.24 | 0.47 | 25.5 | 469 |
| 1370-127A | 3812-3815 | 0.94 | 0.19 | 0.19 | 0.50 | 20.2 | 434 |
| 1370-129A | 3817-3820 | 0.97 | 0.19 | 0.31 | 0.38 | 32.0 | 417 |
| 1370-130A | 3820-3822 | 1.04 | 0.31 | 0.40 | 0.44 | 38.5 | 444 |
| 1370-131A | 3822-3825 | 1.05 | 0.18 | 0.23 | 0.44 | 21.9 | 421 |
| 1370-132A | 3825-3827 | 1.02 | 0.24 | 0.44 | 0.35 | 43.1 | 410 |
| 1370-133A | 3827-3830 | 1.00 | 0.24 | 0.34 | 0.41 | 34.0 | 431 |
| 1370-135A | 3832-3835 | 1.00 | 0.23 | 0.10 | 0.70 | 10.0 | |
| 1370-136A | 3835-3837 | 1.01 | 0.31 | 0.39 | 0.44 | 38.6 | 445 |
| 1370-137A | 3837-3840 | 0.97 | 0.31 | 0.21 | 0.60 | 21.6 | |
| 1370-138A | 3840-3842 | 1.00 | 0.23 | 0.28 | 0.45 | 28.0 | 413 |
| 1370-139A | 3842-3845 | 0.90 | 0.16 | 0.17 | 0.48 | 18.9 | 446 |
| 1370-140A | 3845-3847 | 0.84 | 0.13 | 0.15 | 0.46 | 17.9 | 404 |
| 1370-141A | 3847-3850 | 0.85 | 0.14 | 0.16 | 0.47 | 18.8 | 436 |
| 1370-142A | 3850-3852 | 0.85 | 0.16 | 0.16 | 0.50 | 18.8 | 391 |
| 1370-143A | 3852-3855 | 0.84 | 0.30 | 0.44 | 0.41 | 52.4 | 411 |
| 1370-144A | 3855-3857 | 0.86 | 0.16 | 0.15 | 0.52 | 17.4 | 403 |
| 1370-145A | 3857-3860 | 0.92 | 0.38 | 0.28 | 0.58 | 30.4 | |
| 1370-146A | 3860-3862 | 0.95 | 0.16 | 0.12 | 0.57 | 12.6 | 490 |



TABLE 2

STANDARD PYROLYSIS DATA

| GEOCHEM SAMPLE NUMBER | DEPTH | ORGANIC CARBON | S1 (mg/g) | S2 (mg/g) | PRODUCTION INDEX | HYDROGEN INDEX | Tmax (° C) |
|-----------------------------|-----------|-------------------|--------------|--------------|---------------------|-------------------|---------------|
| 1370-147A | 3862-3865 | | 0.16 | 0.12 | 0.57 | | 433 |
| 1370-148A | 3865-3867 | 0.81 | 0.16 | 0.15 | 0.52 | 18.5 | 426 |
| 1370-150A | 3870-3872 | 0.83 | 0.16 | 0.14 | 0.53 | 16.9 | 557 |
| 1370-151A | 3872-3875 | 0.85 | 0.20 | 0.20 | 0.50 | 23.5 | 446 |
| 1370-152A | 3875-3877 | 0.72 | 0.14 | 0.17 | 0.45 | 23.6 | 431 |
| 1370-153A | 3877-3880 | 0.77 | 0.14 | 0.17 | 0.45 | 22.1 | 499 |
| 1370-154A | 3880-3882 | 0.80 | 0.14 | 0.14 | 0.50 | 17.5 | 388 |
| 1370-158A | 3890-3982 | 0.98 | 0.20 | 0.20 | 0.50 | 20.4 | 445 |
| 1370-162A | 3900-3902 | 0.87 | 0.16 | 0.13 | 0.55 | 14.9 | 391 |
| 1370-166A | 3910-3912 | 0.91 | 0.12 | 0.06 | 0.67 | 6.6 | |
| 1370-169A | 3917-3920 | 0.90 | 0.19 | 0.14 | 0.58 | 15.6 | 405 |
| 1370-170A | 3920-3922 | 0.91 | 0.21 | 0.15 | 0.58 | 16.5 | |
| 1370-171A | 3922-3925 | 0.84 | 0.21 | 0.09 | 0.70 | 10.7 | 431 |
| 1370-172A | 3925-3927 | 0.90 | 0.18 | 0.14 | 0.56 | 15.6 | 437 |
| 1370-173A | 3927-3930 | 0.84 | 0.19 | 0.12 | 0.61 | 14.3 | 420 |
| 1370-174A | 3930-3932 | 0.91 | 0.09 | 0.05 | 0.64 | 5.5 | 453 |
| 1370-176A | 3935-3937 | 0.84 | 0.20 | 0.08 | 0.71 | 9.5 | 361 |
| 1370-177A | 3937-3940 | 0.81 | 0.08 | 0.09 | 0.47 | 11.1 | 474 |
| 1370-178A | 3940-3942 | 0.86 | 0.13 | 0.22 | 0.37 | 25.6 | 458 |
| 1370-179A | 3942-3945 | 0.82 | 0.11 | 0.15 | 0.42 | 18.3 | |
| 1370-180A | 3945-3947 | 0.88 | 0.11 | 0.15 | 0.42 | 17.0 | 436 |
| 1370-181A | 3947-3950 | 0.88 | 0.16 | 0.36 | 0.31 | 40.9 | 425 |
| 1370-182A | 3950-3952 | 0.86 | 0.08 | 0.14 | 0.36 | 16.3 | 447 |
| 1370-183A | 3952-3955 | 0.85 | 0.17 | 0.08 | 0.68 | 9.4 | 466 |
| 1370-184A | 3955-3957 | 0.89 | 0.22 | 0.27 | 0.45 | 30.3 | 382 |
| 1370-185A | 3957-3960 | 0.96 | 0.21 | 0.10 | 0.68 | 10.4 | |
| 1370-186A | 3960-3962 | 0.97 | 0.34 | 0.54 | 0.39 | 55.7 | 308 |
| 1370-187A | 3962-3965 | 1.07 | 0.36 | 0.16 | 0.69 | 15.0 | |
| 1370-188A | 3965-3967 | 1.25 | 0.38 | 0.23 | 0.62 | 18.4 | 423 |
| 1370-189A | 3967-3970 | 1.52 | 0.37 | 0.17 | 0.69 | 11.2 | 351 |
| 1370-190A | 3970-3972 | 1.25 | 0.28 | 0.16 | 0.64 | 12.8 | 426 |
| 1370-191A | 3972-3975 | 1.24 | 0.32 | 0.17 | 0.65 | 13.7 | |
| 1370-192A | 3975-3977 | 1.01 | 0.29 | 0.12 | 0.71 | 11.9 | |
| 1370-193A | 3977-3980 | 0.99 | 0.25 | 0.11 | 0.69 | 11.1 | 441 |
| 1370-194A | 3980-3982 | 0.92 | 0.20 | 0.13 | 0.61 | 14.1 | 485 |
| 1370-195A | 3982-3985 | 0.92 | 0.29 | 0.29 | 0.50 | 31.5 | 355 |
| 1370-196A | 3985-3987 | 0.94 | 0.23 | 0.11 | 0.68 | 11.7 | |
| 1370-197A | 3987-3990 | 0.93 | 0.19 | 0.10 | 0.66 | 10.8 | |
| 1370-198A | 3990-3992 | 0.88 | 0.15 | 0.09 | 0.63 | 10.2 | 477 |
| 1370-199A | 3992-3995 | 1.01 | 0.21 | 0.05 | 0.81 | 5.0 | |
| 1370-200A | 3995-3997 | 0.97 | 0.22 | 0.08 | 0.73 | 8.2 | 347 |
| 1370-201A | 3997-4000 | 0.98 | 0.25 | 0.12 | 0.68 | 12.2 | |
| 1370-202A | 4000-4002 | 0.88 | 0.19 | 0.15 | 0.56 | 17.0 | 491 |
| 1370-203A | 4002-4005 | 0.96 | 0.26 | 0.10 | 0.72 | 10.4 | 379 |
| 1370-204A | 4005-4007 | 0.93 | 0.23 | 0.06 | 0.79 | 6.5 | |
| 1370-205A | 4007-4010 | 1.36 | 0.24 | 0.12 | 0.67 | 8.8 | 365 |
| 1370-206A | 4010-4012 | 1.02 | 0.20 | 0.14 | 0.59 | 13.7 | 464 |
| 1370-207A | 4012-4015 | 0.98 | 0.24 | 0.09 | 0.73 | 9.2 | |
| 1370-208A | 4015-4017 | 1.12 | 0.46 | 0.24 | 0.66 | 21.4 | 344 |
| 1370-209A | 4017-4020 | 0.95 | 0.22 | 0.10 | 0.69 | 10.5 | 359 |



TABLE 2

STANDARD PYROLYSIS DATA

| GEOCHEM SAMPLE NUMBER | DEPTH | ORGANIC CARBON | S1 (mg/g) | S2 (mg/g) | PRODUCTION INDEX | HYDROGEN INDEX | Tmax (° C) |
|-----------------------------|-----------|-------------------|--------------|--------------|---------------------|-------------------|---------------|
| 1370-210A | 4020-4022 | 0.81 | 0.29 | 0.11 | 0.72 | 13.6 | |
| 1370-211A | 4022-4025 | 1.09 | 0.44 | 0.49 | 0.47 | 45.0 | 335 |
| 1370-212A | 4025-4027 | 1.09 | 0.21 | 0.10 | 0.68 | 9.2 | 433 |
| 1370-213A | 4027-4030 | 1.06 | 0.22 | 0.17 | 0.56 | 16.0 | 434 |
| 1370-214A | 4030-4032 | 0.93 | 0.18 | 0.09 | 0.67 | 9.7 | 374 |
| 1370-215A | 4032-4035 | 0.95 | 0.13 | 0.07 | 0.65 | 7.4 | 383 |
| 1370-216A | 4035-4037 | 1.02 | 0.31 | 0.24 | 0.56 | 23.5 | |
| 1370-217A | 4037-4040 | 0.88 | 0.16 | 0.10 | 0.62 | 11.4 | |
| 1370-218A | 4040-4042 | 0.96 | 0.16 | 0.07 | 0.70 | 7.3 | 357 |
| 1370-219A | 4042-4045 | 0.97 | 0.20 | 0.12 | 0.63 | 12.4 | |
| 1370-220A | 4045-4047 | 1.03 | 0.16 | 0.12 | 0.57 | 11.7 | |
| 1370-221A | 4047-4050 | 1.15 | 0.21 | 0.15 | 0.58 | 13.0 | 449 |
| 1370-222A | 4050-4052 | 0.96 | 0.18 | 0.09 | 0.67 | 9.4 | 483 |
| 1370-223A | 4052-4055 | 1.07 | 0.29 | 0.17 | 0.63 | 15.9 | 382 |
| 1370-224A | 4055-4057 | 1.10 | 0.28 | 0.15 | 0.65 | 13.6 | 385 |
| 1370-225A | 4057-4060 | 1.03 | 0.27 | 0.18 | 0.60 | 17.5 | 323 |
| 1370-227A | 4062-4065 | 1.06 | 0.21 | 0.22 | 0.49 | 20.8 | 433 |
| 1370-228A | 4065-4067 | 1.08 | 0.24 | 0.33 | 0.42 | 30.6 | 381 |
| 1370-229A | 4067-4070 | 0.91 | 0.18 | 0.13 | 0.58 | 14.3 | 419 |
| 1370-230A | 4070-4072 | 0.44 | 0.25 | 0.41 | 0.38 | 93.2 | 403 |
| 1370-231A | 4072-4075 | 1.02 | 0.20 | 0.15 | 0.57 | 14.7 | 349 |
| 1370-232A | 4075-4077 | 0.93 | 0.19 | 0.24 | 0.44 | 25.8 | 436 |
| 1370-233A | 4077-4080 | 0.89 | 0.20 | 0.16 | 0.56 | 18.0 | |
| 1370-234A | 4080-4082 | 0.99 | 0.16 | 0.03 | 0.84 | 3.0 | 485 |
| 1370-235A | 4082-4085 | 1.06 | 0.21 | 0.09 | 0.70 | 8.5 | 556 |
| 1370-236A | 4085-4087 | 0.98 | 0.22 | 0.14 | 0.61 | 14.3 | |
| 1370-237A | 4087-4090 | 0.99 | 0.20 | 0.07 | 0.74 | 7.1 | |
| 1370-238A | 4090-4092 | 0.85 | 0.20 | 0.07 | 0.74 | 8.2 | |
| 1370-239A | 4092-4095 | 1.12 | 0.24 | 0.17 | 0.59 | 15.2 | 430 |
| 1370-240A | 4095-4097 | 0.98 | 0.21 | 0.06 | 0.78 | 6.1 | 386 |
| 1370-241A | 4097-4100 | 0.98 | 0.25 | 0.12 | 0.68 | 12.2 | |
| 1370-242A | 4100-4102 | 0.58 | 0.17 | 0.06 | 0.74 | 10.3 | |
| 1370-243A | 4102-4105 | 0.83 | 0.18 | 0.05 | 0.78 | 6.0 | 410 |
| 1370-244A | 4105-4107 | 0.78 | 0.20 | 0.39 | 0.34 | 50.0 | 495 |
| 1370-245A | 4107-4110 | 0.78 | 0.17 | 0.06 | 0.74 | 7.7 | 495 |
| 1370-246A | 4110-4112 | 0.92 | 0.17 | 0.10 | 0.63 | 10.9 | 531 |
| 1370-247A | 4112-4115 | 0.79 | 0.19 | 0.48 | 0.28 | 60.8 | 447 |
| 1370-248A | 4115-4117 | 0.91 | 0.12 | 0.11 | 0.52 | 12.1 | 441 |
| 1370-249A | 4117-4120 | 0.91 | 0.11 | 0.14 | 0.44 | 15.4 | 423 |
| 1370-250A | 4120-4122 | 1.09 | 0.11 | 0.14 | 0.44 | 12.8 | 368 |
| 1370-251A | 4122-4125 | 0.92 | 0.13 | 0.08 | 0.62 | 8.7 | 428 |
| 1370-252A | 4125-4127 | 0.95 | 0.27 | 0.12 | 0.69 | 12.6 | 436 |
| 1370-253A | 4127-4130 | 0.86 | 0.26 | 0.04 | 0.87 | 4.7 | |
| 1370-254A | 4130-4132 | 0.73 | 0.31 | 0.28 | 0.53 | 38.4 | 287 |
| 1370-256A | 4135-4137 | 0.74 | 0.13 | 0.06 | 0.68 | 8.1 | |
| 1370-257A | 4137-4140 | 0.70 | 0.14 | 0.08 | 0.64 | 11.4 | 432 |
| 1370-258A | 4140-4142 | 0.62 | 0.16 | 0.14 | 0.53 | 22.6 | 301 |
| 1370-259A | 4142-4145 | 0.72 | 0.13 | 0.05 | 0.72 | 6.9 | 376 |
| 1370-260A | 4145-4147 | 0.77 | 0.14 | 0.09 | 0.61 | 11.7 | 528 |
| 1370-261A | 4147-4150 | 0.70 | 0.14 | 0.11 | 0.56 | 15.7 | 438 |



TABLE 2

STANDARD PYROLYSIS DATA

| GEOCHEM SAMPLE NUMBER | DEPTH | ORGANIC CARBON | S1 (mg/g) | S2 (mg/g) | PRODUCTION INDEX | HYDROGEN INDEX | Tmax (° C) |
|-----------------------------|-----------|-------------------|--------------|--------------|---------------------|-------------------|---------------|
| 1370-262A | 4150-4152 | 0.74 | 0.15 | 0.09 | 0.63 | 12.2 | 431 |
| 1370-263A | 4152-4155 | 0.56 | 0.12 | 0.13 | 0.48 | 23.2 | 435 |
| 1370-264A | 4155-4157 | 0.62 | 0.13 | 0.06 | 0.68 | 9.7 | 553 |
| 1370-265A | 4157-4160 | 0.71 | 0.14 | 0.09 | 0.61 | 12.7 | 324 |
| 1370-266A | 4160-4162 | 0.76 | 0.24 | 0.19 | 0.56 | 25.0 | |
| 1370-267A | 4162-4165 | 0.75 | 0.15 | 0.11 | 0.58 | 14.7 | 541 |
| 1370-268A | 4165-4167 | 0.73 | 0.11 | 0.07 | 0.61 | 9.6 | 370 |
| 1370-269A | 4167-4170 | 0.66 | 0.09 | 0.04 | 0.69 | 6.1 | |
| 1370-270A | 4170-4172 | 0.59 | 0.16 | 0.06 | 0.73 | 10.2 | |
| 1370-271A | 4172-4175 | 0.70 | 0.08 | 0.00 | 1.00 | 0.0 | 464 |
| 1370-272A | 4175-4177 | 0.66 | 0.09 | 0.08 | 0.53 | 12.1 | 445 |
| 1370-274A | 4180-4182 | 2.03 | 0.29 | 1.46 | 0.17 | 71.9 | 409 |
| 1370-275A | 4182-4185 | 1.57 | 0.23 | 0.79 | 0.23 | 50.3 | 433 |
| 1370-276A | 4185-4187 | 2.16 | 0.26 | 2.16 | 0.11 | 100.0 | 427 |
| 1370-277A | 4187-4190 | 2.34 | 0.25 | 2.15 | 0.10 | 91.9 | 428 |
| 1370-278A | 4190-4192 | 2.25 | 0.32 | 2.01 | 0.14 | 89.3 | 434 |
| 1370-279A | 4192-4195 | 2.55 | 0.39 | 2.83 | 0.12 | 111.0 | 431 |
| 1370-280A | 4195-4197 | 2.16 | 0.29 | 1.94 | 0.13 | 89.8 | 430 |
| 1370-281A | 4197-4200 | 1.31 | 0.19 | 0.43 | 0.31 | 32.8 | 429 |
| 1370-282A | 4200-4202 | 1.12 | 0.21 | 0.40 | 0.34 | 35.7 | 424 |
| 1370-283A | 4202-4205 | 0.79 | 0.18 | 0.21 | 0.46 | 26.6 | 431 |
| 1370-284A | 4205-4207 | 0.76 | 0.12 | 0.07 | 0.63 | 9.2 | 409 |
| 1370-285A | 4207-4210 | 0.79 | 0.13 | 0.08 | 0.62 | 10.1 | 389 |
| 1370-286A | 4210-4212 | 0.78 | 0.13 | 0.07 | 0.65 | 9.0 | 432 |
| 1370-287A | 4212-4215 | 0.85 | 0.11 | 0.11 | 0.50 | 12.9 | 449 |
| 1370-288A | 4215-4217 | 0.86 | 0.15 | 0.11 | 0.58 | 12.8 | 396 |
| 1370-289A | 4217-4220 | 0.82 | 0.17 | 0.10 | 0.63 | 12.2 | 431 |
| 1370-290A | 4220-4222 | 0.76 | 0.22 | 0.16 | 0.58 | 21.1 | |
| 1370-292A | 4225-4227 | 0.96 | 0.22 | 0.10 | 0.69 | 10.4 | 338 |
| 1370-293A | 4227-4230 | 0.93 | 0.22 | 0.08 | 0.73 | 8.6 | 392 |
| 1370-294A | 4230-4232 | 0.95 | 0.22 | 0.05 | 0.81 | 5.3 | |
| 1370-295A | 4232-4235 | 0.96 | 0.16 | 0.04 | 0.80 | 4.2 | 352 |
| 1370-296A | 4235-4237 | 0.97 | 0.19 | 0.12 | 0.61 | 12.4 | 444 |
| 1370-297A | 4237-4240 | 1.06 | 0.21 | 0.28 | 0.43 | 26.4 | 357 |
| 1370-298A | 4240-4242 | 1.09 | 0.24 | 0.06 | 0.80 | 5.5 | 556 |
| 1370-299A | 4242-4245 | 1.11 | 0.18 | 0.08 | 0.69 | 7.2 | 382 |
| 1370-300A | 4245-4247 | 1.01 | 0.19 | 0.09 | 0.68 | 8.9 | 311 |
| 1370-301A | 4247-4250 | 0.68 | 0.15 | 0.09 | 0.63 | 13.2 | 530 |
| 1370-302A | 4250-4252 | 1.57 | 0.38 | 1.07 | 0.26 | 68.2 | 334 |
| 1370-303A | 4252-4255 | 0.68 | 0.16 | 0.19 | 0.46 | 27.9 | 341 |
| 1370-305B | 4257-4260 | 0.91 | 0.15 | 0.18 | 0.45 | 19.8 | 533 |
| 1370-306A | 4260-4262 | 0.94 | 0.19 | 0.39 | 0.33 | 41.5 | 425 |
| 1370-307A | 4262-4265 | 0.90 | 0.54 | 1.63 | 0.25 | 181.1 | 403 |
| 1370-308A | 4265-4262 | 0.76 | 0.27 | 0.56 | 0.33 | 73.7 | 431 |
| 1370-309A | 4267-4270 | 0.59 | 0.10 | 0.12 | 0.45 | 20.3 | 509 |
| 1370-310A | 4270-4272 | 0.75 | 0.37 | 0.68 | 0.35 | 90.7 | 422 |
| 1370-311B | 4272-4275 | 0.32 | 0.07 | 0.14 | 0.33 | 43.7 | 348 |
| 1370-312B | 4275-4277 | 0.28 | 0.11 | 0.29 | 0.28 | 103.6 | 423 |
| 1370-313B | 4277-4280 | 0.34 | 0.07 | 0.17 | 0.29 | 50.0 | 426 |
| 1370-314A | 4280-4282 | 0.34 | 0.16 | 0.20 | 0.44 | 58.8 | 381 |



TABLE 2

STANDARD PYROLYSIS DATA

| GEOCHEM SAMPLE NUMBER | DEPTH | ORGANIC CARBON | S1 (mg/g) | S2 (mg/g) | PRODUCTION INDEX | HYDROGEN INDEX | Tmax (° C) |
|-----------------------------|-----------|-------------------|--------------|--------------|---------------------|-------------------|---------------|
| 1370-315B | 4282-4285 | 0.29 | 0.08 | 0.39 | 0.17 | 134.5 | 390 |
| 1370-316A | 4285-4287 | 0.28 | 0.08 | 0.12 | 0.40 | 42.9 | 450 |
| 1370-317B | 4287-4290 | 0.24 | 0.05 | 0.09 | 0.36 | 37.5 | 447 |
| 1370-318C | 4290-4292 | 0.32 | 0.12 | 0.25 | 0.32 | 78.1 | 423 |
| 1370-319C | 4292-4295 | 0.27 | 0.08 | 0.18 | 0.31 | 66.7 | 439 |
| 1370-320C | 4295-4297 | 0.36 | 0.29 | 0.30 | 0.49 | 83.3 | |
| 1370-321A | 4297-4300 | 0.43 | 0.06 | 0.10 | 0.38 | 23.3 | 439 |
| 1370-322A | 4300-4302 | 0.35 | 0.08 | 0.15 | 0.35 | 42.9 | 481 |
| 1370-345A | 4695-4697 | 0.68 | 0.10 | 0.04 | 0.71 | 5.9 | 434 |
| 1370-346A | 4700-4702 | 0.95 | 0.18 | 0.28 | 0.39 | 29.5 | 428 |
| 1370-347A | 4705-4707 | 0.66 | 0.08 | 0.04 | 0.67 | 6.1 | 444 |
| 1370-348A | 4710-4712 | 0.81 | 0.14 | 0.23 | 0.38 | 28.4 | 421 |
| 1370-349A | 4725-4727 | 0.52 | 0.19 | 0.21 | 0.47 | 40.4 | 437 |
| 1370-350A | 4732-4735 | 0.62 | 0.18 | 0.23 | 0.44 | 37.1 | 335 |
| 1370-351A | 4745-4747 | 0.63 | 0.19 | 0.04 | 0.83 | 6.3 | |
| 1370-352A | 4757-4760 | 0.45 | 0.09 | 0.10 | 0.47 | 22.2 | 491 |
| 1370-353A | 4762-4765 | 0.94 | 0.27 | 0.20 | 0.57 | 21.3 | |
| 1370-354A | 4767-4770 | 0.62 | 0.16 | 0.13 | 0.55 | 21.0 | 329 |
| 1370-355A | 4775-4777 | 1.07 | 0.23 | 0.26 | 0.47 | 24.3 | 420 |
| 1370-356A | 4777-4780 | 0.72 | 0.26 | 0.13 | 0.67 | 18.1 | 300 |
| 1370-357A | 4787-4790 | 0.76 | 0.25 | 0.06 | 0.81 | 7.9 | 427 |
| 1370-323A | 4790-4792 | 0.55 | 0.19 | 0.10 | 0.66 | 18.2 | 375 |
| 1370-324B | 4792-4795 | 0.69 | 0.18 | 0.13 | 0.58 | 18.8 | 357 |
| 1370-326A | 4797-4800 | 1.32 | 0.58 | 0.20 | 0.74 | 15.2 | 486 |
| 1370-327B | 4800-4802 | 1.52 | 1.63 | 1.90 | 0.46 | 125.0 | 436 |
| 1370-328A | 4802-4805 | 2.15 | 1.00 | 0.83 | 0.55 | 38.6 | 373 |
| 1370-329A | 4805-4807 | 2.36 | 1.29 | 0.28 | 0.82 | 11.9 | 389 |
| 1370-330A | 4807-4810 | 2.16 | 1.23 | 0.54 | 0.69 | 25.0 | 396 |
| 1370-331A | 4810-4812 | 1.11 | 0.56 | 0.25 | 0.69 | 22.5 | 387 |
| 1370-358A | 4812-4815 | 1.10 | 0.44 | 0.21 | 0.68 | 19.1 | 411 |
| 1370-359A | 4817-4820 | 0.87 | 0.25 | 0.17 | 0.60 | 19.5 | 401 |

SIDEWALL CORES

| | | | | | | | |
|-----------|--------|------|------|------|------|------|-----|
| 1370-336A | 2736 | 0.29 | 0.06 | 0.03 | 0.67 | 10.3 | 431 |
| 1370-342A | 2847 | 0.80 | 0.88 | 0.45 | 0.66 | 56.2 | 412 |
| 1370-333A | 2887 | 1.00 | 1.13 | 0.39 | 0.74 | 39.0 | 417 |
| 1370-335A | 2996 | 0.21 | 0.12 | 0.08 | 0.60 | 38.1 | 413 |
| 1370-334A | 3017.8 | 0.41 | 0.43 | 0.28 | 0.61 | 68.3 | 443 |
| 1370-344A | 4770 | 0.44 | 0.11 | 0.18 | 0.38 | 40.9 | 390 |
| 1370-343A | 4808.1 | 1.25 | 0.23 | 0.07 | 0.77 | 5.6 | 431 |



TABLE 3a
GAS OIL INDEX (1)

| GEOCHEM SAMPLE NUMBER | DEPTH | % C1 | % C2-5 | % C6-14 | % C15+ | <u>C1-5</u> <u>C6+</u> |
|-----------------------------|-----------|---------|-----------|------------|-----------|---------------------------|
| 1370-004A | 2707-2710 | 12.97 | 42.74 | 44.19 | 0.09 | 1.26 |
| 1370-015A | 2735-2737 | 12.32 | 26.85 | 60.55 | 0.28 | 0.64 |
| 1370-043A | 2805-2807 | 12.90 | 60.19 | 26.91 | 0.00 | 2.72 |
| 1370-063B | 2857-2860 | 16.94 | 25.10 | 57.96 | 0.00 | 0.73 |
| 1370-068B | 2870-2872 | 26.44 | 48.18 | 25.23 | 0.16 | 2.94 |
| 1370-075B | 2887-2890 | 26.57 | 35.11 | 38.22 | 0.11 | 1.61 |
| 1370-076A | 2890-2892 | 18.78 | 59.45 | 21.77 | 0.00 | 3.59 |
| 1370-120B | 3025-3027 | 23.60 | 41.19 | 35.09 | 0.12 | 1.84 |
| 1370-279A | 4192-4195 | 23.21 | 24.07 | 50.73 | 1.99 | 0.90 |
| 1370-328A | 4802-4805 | 16.49 | 53.20 | 30.31 | 0.00 | 2.30 |



TABLE 3b

GAS OIL INDEX (2)

| GEOCHEM SAMPLE NUMBER | DEPTH | % C1 | % C2-6 | % C7-14 | % C15+ | $\frac{C1-6}{C7+}$ |
|-----------------------------|-----------|---------|-----------|------------|-----------|--------------------|
| 1370-004A | 2707-2710 | 12.97 | 55.08 | 31.85 | 0.09 | 2.13 |
| 1370-015A | 2735-2737 | 12.32 | 59.02 | 28.37 | 0.28 | 2.49 |
| 1370-043A | 2805-2807 | 12.90 | 74.76 | 12.34 | 0.00 | 7.10 |
| 1370-063B | 2857-2860 | 16.94 | 46.43 | 36.63 | 0.00 | 1.73 |
| 1370-068B | 2870-2872 | 26.44 | 55.80 | 17.60 | 0.16 | 4.63 |
| 1370-075B | 2887-2890 | 26.57 | 54.73 | 18.60 | 0.11 | 4.35 |
| 1370-076A | 2890-2892 | 18.78 | 70.31 | 10.91 | 0.00 | 8.17 |
| 1370-120B | 3025-3027 | 23.60 | 60.56 | 15.72 | 0.12 | 5.31 |
| 1370-279A | 4192-4195 | 23.21 | 35.66 | 39.14 | 1.99 | 1.43 |
| 1370-328A | 4802-4805 | 16.49 | 70.45 | 13.06 | 0.00 | 6.66 |



TABLE 4a
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

| JOB | LITHO | DEPTH | TOTAL EXTRACT | HYDROCARBONS | | | NON HYDROCARBONS | | | |
|--------------|-------|-----------|---------------|--------------|-----------|-------|------------------------|--------------|------------------|-------|
| | | | | Saturates | Aromatics | TOTAL | Precipitd. Asphaltenes | Eluted NSO's | Non-eluted NSO's | TOTAL |
| 7120/9- 2 | | | | | | | | | | |
| 1370-001A | | 2700-2702 | 334 | 174 | 24 | 199 | 115 | 20 | 1 | 135 |
| 1370-005A | | 2710-2712 | 115 | 50 | 6 | 56 | 46 | 11 | 2 | 59 |
| 1370-009A | | 2720-2722 | 313 | 125 | 15 | 140 | 140 | 28 | 5 | 173 |
| 1370-013A | | 2730-2732 | 341 | 150 | 18 | 168 | 143 | 28 | 2 | 173 |
| 1370-336A | | 2736 | 325 | 95 | 15 | 110 | 171 | 42 | 2 | 215 |
| 1370-017A | | 2740-2742 | 423 | 188 | 25 | 214 | 162 | 43 | 4 | 209 |
| 1370-021A | | 2750-2752 | 882 | 439 | 51 | 490 | 296 | 92 | 3 | 392 |
| 1370-025A | | 2760-2762 | 704 | 272 | 38 | 310 | 326 | 62 | 5 | 394 |
| 1370-029A | | 2770-2772 | 593 | 214 | 32 | 246 | 280 | 58 | 8 | 347 |
| 1370-033 | | 2780-2782 | 817 | 268 | 34 | 302 | 438 | 69 | 8 | 515 |
| 1370-037 | | 2790-2792 | 614 | 199 | 33 | 232 | 318 | 59 | 5 | 382 |
| 1370-041A | | 2800-2802 | 1229 | 326 | 62 | 389 | 667 | 160 | 14 | 840 |
| 1370-045A | | 2810-2812 | 1081 | 255 | 54 | 309 | 611 | 148 | 13 | 772 |
| 1370-049A | | 2820-2822 | 1695 | 407 | 68 | 475 | 1034 | 169 | 17 | 1220 |
| 1370-339A | | 2823 | 380 | 95 | 16 | 111 | 207 | 56 | 7 | 269 |
| 1370-337A | | 2823 | 1008 | 277 | 50 | 328 | 513 | 151 | 17 | 681 |
| 1370-053A | | 2830-2832 | 565 | 251 | 36 | 287 | 167 | 108 | 4 | 279 |
| 1370-057A | | 2840-2842 | 419 | 140 | 21 | 162 | 200 | 53 | 4 | 258 |
| 1370-338A | | 2840 | 577 | 112 | 20 | 133 | 383 | 61 | 0 | 444 |
| 1370-342A | | 2849 | 1276 | 538 | 76 | 614 | 504 | 142 | 16 | 661 |
| 1370-061A | | 2850-2852 | 274 | 103 | 14 | 117 | 120 | 33 | 4 | 157 |
| 1370-332A | | 2856 | 2459 | 743 | 108 | 851 | 905 | 649 | 54 | 1608 |
| 1370-064A | | 2860-2862 | 544 | 183 | 33 | 217 | 253 | 70 | 3 | 327 |
| 1370-068A | | 2870-2872 | 273 | 97 | 16 | 113 | 132 | 23 | 4 | 159 |
| 1370-072A +B | | 2880-2882 | 209 | 78 | 13 | 91 | 87 | 29 | 2 | 119 |
| 1370-333A | | 2887 | 4236 | 1673 | 255 | 1927 | 1891 | 345 | 73 | 2309 |
| 1370-076A +B | | 2890-2892 | 369 | 129 | 26 | 154 | 157 | 53 | 4 | 214 |
| 1370-340A | | 2898 | 1100 | 200 | 40 | 240 | 555 | 290 | 15 | 860 |
| 1370-083A +B | | 2920-2922 | 602 | 210 | 28 | 239 | 284 | 74 | 6 | 364 |
| 1370-087A | | 2930-2932 | 1075 | 451 | 68 | 519 | 440 | 102 | 14 | 556 |
| 1370-091A | | 2940-2942 | 610 | 263 | 36 | 299 | 245 | 59 | 7 | 311 |
| 1370-094A | | 2947-2950 | 413 | 154 | 25 | 179 | 171 | 60 | 3 | 234 |
| 1370-095A +C | | 2962-2965 | 628 | 196 | 37 | 234 | 319 | 74 | 1 | 394 |
| 1370-098A +B | | 2970-2972 | 410 | 151 | 21 | 172 | 200 | 34 | 4 | 239 |
| 1370-102A | | 2980-2982 | 406 | 129 | 24 | 152 | 207 | 42 | 5 | 254 |
| 1370-106A | | 2990-2992 | 821 | 276 | 50 | 325 | 409 | 82 | 4 | 496 |
| 1370-335A | | 2996 | 839 | 340 | 47 | 387 | 366 | 80 | 6 | 452 |
| 1370-110A | | 3000-3002 | 1060 | 485 | 77 | 562 | 357 | 120 | 21 | 498 |
| 1370-341A | | 3008 | 1315 | 263 | 112 | 375 | 603 | 321 | 16 | 940 |
| 1370-334A | | 3017.5 | 995 | 458 | 79 | 537 | 340 | 106 | 12 | 458 |
| 1370-122A | | 3800-3802 | 328 | 98 | 14 | 112 | 185 | 28 | 4 | 216 |
| 1370-126A | | 3810-3812 | 772 | 225 | 42 | 268 | 384 | 116 | 4 | 504 |
| 1370-130A | | 3820-3822 | 1102 | 365 | 54 | 419 | 578 | 95 | 10 | 683 |
| 1370-138A | | 3840-3842 | 371 | 134 | 22 | 156 | 184 | 28 | 3 | 215 |
| 1370-142A | | 3850-3852 | 175 | 43 | 7 | 50 | 108 | 15 | 1 | 124 |
| 1370-146A | | 3860-3862 | 412 | 162 | 23 | 185 | 185 | 41 | 2 | 227 |
| 1370-150A | | 3870-3872 | 642 | 212 | 31 | 243 | 339 | 57 | 4 | 400 |
| 1370-154A | | 3880-3882 | 941 | 297 | 48 | 345 | 390 | 198 | 8 | 596 |
| 1370-158A | | 3890-3892 | 623 | 241 | 40 | 280 | 209 | 123 | 10 | 343 |
| 1370-162A | | 3900-3902 | 398 | 146 | 28 | 174 | 163 | 58 | 3 | 224 |

S - shale, SS - sandstone, L - limestone, D - dolomite, M - mixed, see Table 1.



TABLE 4a
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

| JOB | LITHO | DEPTH | TOTAL EXTRACT | HYDROCARBONS | | | NON HYDROCARBONS | | | |
|-----------|-------|-----------|---------------|--------------|-----------|-------|------------------------|--------------|------------------|-------|
| | | | | Saturates | Aromatics | TOTAL | Precipitd. Asphaltenes | Eluted NSO's | Non-eluted NSO's | TOTAL |
| 1370-166A | | 3910-3912 | 352 | 73 | 15 | 88 | 212 | 47 | 5 | 264 |
| 1370-170A | | 3920-3922 | 741 | 223 | 45 | 268 | 295 | 170 | 9 | 473 |
| 1370-174A | | 3930-3932 | 695 | 228 | 39 | 267 | 271 | 148 | 9 | 428 |
| 1370-178A | | 3940-3942 | 515 | 175 | 33 | 207 | 192 | 113 | 3 | 308 |
| 1370-182A | | 3950-3952 | 750 | 181 | 38 | 219 | 339 | 188 | 4 | 531 |
| 1370-186A | | 3960-3962 | 497 | 179 | 28 | 207 | 137 | 146 | 6 | 289 |
| 1370-190A | | 3970-3972 | 840 | 318 | 62 | 380 | 282 | 167 | 11 | 460 |
| 1370-194A | | 3980-3982 | 630 | 227 | 43 | 271 | 147 | 207 | 6 | 360 |
| 1370-198A | | 3990-3992 | 984 | 274 | 65 | 339 | 338 | 291 | 17 | 646 |
| 1370-202A | | 4000-4002 | 333 | 123 | 19 | 142 | 158 | 32 | 1 | 191 |
| 1370-206A | | 4010-4012 | 730 | 281 | 47 | 328 | 304 | 90 | 8 | 402 |
| 1370-210A | | 4020-4022 | 867 | 335 | 55 | 390 | 367 | 108 | 2 | 477 |
| 1370-214A | | 4030-4032 | 1020 | 312 | 53 | 365 | 568 | 81 | 6 | 656 |
| 1370-218A | | 4040-4042 | 400 | 148 | 20 | 169 | 191 | 37 | 3 | 231 |
| 1370-222A | | 4050-4052 | 316 | 148 | 22 | 170 | 113 | 32 | 1 | 146 |
| 1370-230A | | 4070-4072 | 856 | 314 | 53 | 367 | 274 | 208 | 7 | 489 |
| 1370-234A | | 4080-4082 | 533 | 202 | 32 | 234 | 211 | 84 | 4 | 298 |
| 1370-238A | | 4090-4092 | 516 | 182 | 29 | 211 | 230 | 70 | 4 | 305 |
| 1370-242A | | 4100-4102 | 344 | 136 | 19 | 155 | 137 | 48 | 4 | 189 |
| 1370-246A | | 4110-4112 | 458 | 185 | 26 | 210 | 197 | 46 | 4 | 248 |
| 1370-250A | | 4120-4122 | 539 | 202 | 28 | 230 | 232 | 74 | 3 | 309 |
| 1370-254A | | 4130-4132 | 176 | 69 | 10 | 78 | 71 | 25 | 2 | 98 |
| 1370-258A | | 4140-4142 | 228 | 117 | 11 | 128 | 72 | 26 | 2 | 100 |
| 1370-262A | | 4150-4152 | 352 | 134 | 21 | 154 | 148 | 47 | 3 | 198 |
| 1370-266A | | 4160-4162 | 301 | 96 | 15 | 111 | 157 | 31 | 2 | 191 |
| 1370-270A | | 4170-4172 | 281 | 84 | 15 | 99 | 150 | 31 | 1 | 182 |
| 1370-274A | | 4180-4182 | 616 | 152 | 25 | 177 | 332 | 101 | 6 | 439 |
| 1370-278A | | 4190-4192 | 655 | 110 | 21 | 131 | 381 | 138 | 5 | 525 |
| 1370-282A | | 4200-4202 | 668 | 185 | 29 | 214 | 338 | 112 | 4 | 454 |
| 1370-286A | | 4210-4212 | 336 | 95 | 20 | 115 | 170 | 46 | 5 | 221 |
| 1370-290A | | 4220-4222 | 528 | 196 | 32 | 228 | 163 | 131 | 5 | 300 |
| 1370-294A | | 4230-4232 | 534 | 210 | 34 | 243 | 145 | 140 | 6 | 291 |
| 1370-298A | | 4240-4242 | 777 | 302 | 56 | 358 | 215 | 195 | 8 | 419 |
| 1370-302A | | 4250-4252 | 1045 | 355 | 50 | 405 | 422 | 213 | 5 | 640 |
| 1370-306A | | 4260-4262 | 1963 | 551 | 93 | 645 | 925 | 364 | 28 | 1318 |
| 1370-310A | | 4270-4272 | 1995 | 785 | 108 | 892 | 805 | 287 | 10 | 1103 |
| 1370-314A | | 4280-4282 | 1218 | 228 | 59 | 287 | 653 | 248 | 30 | 931 |
| 1370-318B | | 4290-4292 | 1962 | 340 | 75 | 415 | 925 | 566 | 57 | 1547 |
| 1370-322A | | 4300-4302 | 300 | 95 | 27 | 122 | 103 | 70 | 5 | 178 |
| 1370-345A | | 4695-4697 | 334 | 74 | 19 | 93 | 136 | 101 | 5 | 242 |
| 1370-346A | | 4700-4702 | 433 | 116 | 32 | 147 | 135 | 149 | 2 | 286 |
| 1370-349A | | 4725-4727 | 494 | 193 | 37 | 229 | 183 | 74 | 8 | 265 |
| 1370-351A | | 4745-4747 | 431 | 109 | 33 | 142 | 155 | 127 | 7 | 288 |
| 1370-353A | | 4762-4765 | 1212 | 386 | 70 | 456 | 522 | 225 | 9 | 756 |
| 1370-344A | | 4770 | 2850 | 500 | 100 | 600 | 1750 | 450 | 50 | 2250 |
| 1370-357A | | 4787-4790 | 294 | 109 | 15 | 125 | 119 | 47 | 3 | 169 |
| 1370-327B | | 4800-4802 | 3750 | 821 | 214 | 1036 | 2071 | 607 | 36 | 2714 |
| 1370-343A | | 4808.1 | 1453 | 302 | 66 | 368 | 887 | 179 | 19 | 1085 |
| 1370-331A | | 4810-4812 | 2977 | 1058 | 244 | 1302 | 1209 | 419 | 47 | 1674 |
| 1370-359A | | 4817-4820 | 1167 | 469 | 67 | 536 | 421 | 202 | 7 | 631 |

S - shale, SS - sandstone, L - limestone, D - dolomite, M - mixed, see Table 1.



TABLE 4b
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

| JOB | LITHO | DEPTH | HYDROCARBONS | | NON HYDROCARBONS | | |
|-----------------|-------|-----------|--------------|-----------|-----------------------|--------------|------------------|
| | | | Saturates | Aromatics | Preciptd. Asphaltenes | Eluted NSO's | Non eluted NSO's |
| <u>7120/9-2</u> | | | | | | | |
| 1370-001A | | 2700-2702 | 52.19 | 7.30 | 34.31 | 5.84 | 0.36 |
| 1370-005A | | 2710-2712 | 43.63 | 4.90 | 40.20 | 9.80 | 1.47 |
| 1370-009A | | 2720-2722 | 40.00 | 4.80 | 44.80 | 8.80 | 1.60 |
| 1370-013A | | 2730-2732 | 44.04 | 5.18 | 41.97 | 8.29 | 0.52 |
| 1370-336A | | 2736 | 29.22 | 4.55 | 52.60 | 12.99 | 0.65 |
| 1370-017A | | 2740-2742 | 44.56 | 5.96 | 38.25 | 10.18 | 1.05 |
| 1370-021A | | 2750-2752 | 49.82 | 5.78 | 33.57 | 10.47 | 0.36 |
| 1370-025A | | 2760-2762 | 38.61 | 5.41 | 46.33 | 8.88 | 0.77 |
| 1370-029A | | 2770-2772 | 36.16 | 5.36 | 47.32 | 9.82 | 1.34 |
| 1370-033 | | 2780-2782 | 32.79 | 4.22 | 53.57 | 8.44 | 0.97 |
| 1370-037 | | 2790-2792 | 32.39 | 5.35 | 51.83 | 9.58 | 0.85 |
| 1370-041A | | 2800-2802 | 26.55 | 5.08 | 54.24 | 12.99 | 1.13 |
| 1370-045A | | 2810-2812 | 23.60 | 4.97 | 56.52 | 13.66 | 1.24 |
| 1370-049A | | 2820-2822 | 24.00 | 4.00 | 61.00 | 10.00 | 1.00 |
| 1370-339A | | 2823 | 25.00 | 4.31 | 54.31 | 14.66 | 1.72 |
| 1370-337A | | 2823 | 27.50 | 5.00 | 50.83 | 15.00 | 1.67 |
| 1370-053A | | 2830-2832 | 44.34 | 6.37 | 29.48 | 19.10 | 0.71 |
| 1370-057A | | 2840-2842 | 33.45 | 5.12 | 47.78 | 12.63 | 1.02 |
| 1370-338A | | 2840 | 19.47 | 3.54 | 66.37 | 10.62 | 0.00 |
| 1370-342A | | 2849 | 42.18 | 5.97 | 39.51 | 11.11 | 1.23 |
| 1370-061A | | 2850-2852 | 37.50 | 5.09 | 43.98 | 12.04 | 1.39 |
| 1370-332A | | 2856 | 30.22 | 4.40 | 36.81 | 26.37 | 2.20 |
| 1370-064A | | 2860-2862 | 33.69 | 6.14 | 46.61 | 12.92 | 0.64 |
| 1370-068A | | 2870-2872 | 35.48 | 6.05 | 48.39 | 8.47 | 1.61 |
| 1370-072A+B | | 2880-2882 | 37.22 | 6.11 | 41.67 | 13.89 | 1.11 |
| 1370-333A | | 2887 | 39.48 | 6.01 | 44.64 | 8.15 | 1.72 |
| 1370-076A+B | | 2890-2892 | 34.93 | 6.99 | 42.65 | 14.34 | 1.10 |
| 1370-340A | | 2898 | 18.18 | 3.64 | 50.45 | 26.36 | 1.36 |
| 1370-083A+B | | 2920-2922 | 34.91 | 4.72 | 47.17 | 12.26 | 0.94 |
| 1370-087A | | 2930-2932 | 41.90 | 6.35 | 40.95 | 9.52 | 1.27 |
| 1370-091A | | 2940-2942 | 43.12 | 5.95 | 40.15 | 9.67 | 1.12 |
| 1370-094A | | 2947-2950 | 37.23 | 6.03 | 41.49 | 14.54 | 0.71 |
| 1370-095A+C | | 2962-2965 | 31.29 | 5.91 | 50.77 | 11.82 | 0.22 |
| 1370-098A+B | | 2970-2972 | 36.82 | 5.05 | 48.74 | 8.30 | 1.08 |
| 1370-102A | | 2980-2982 | 31.70 | 5.80 | 50.89 | 10.27 | 1.34 |
| 1370-106A | | 2990-2992 | 33.60 | 6.04 | 49.87 | 9.97 | 0.52 |
| 1370-335A | | 2996 | 40.55 | 5.54 | 43.58 | 9.57 | 0.76 |
| 1370-110A | | 3000-3002 | 45.75 | 7.30 | 33.68 | 11.33 | 1.94 |
| 1370-341A | | 3008 | 20.00 | 8.54 | 45.83 | 24.37 | 1.25 |
| 1370-334A | | 3017.5 | 46.05 | 7.91 | 34.19 | 10.70 | 1.16 |
| 1370-122A | | 3800-3802 | 29.94 | 4.19 | 56.29 | 8.38 | 1.20 |
| 1370-126A | | 3810-3812 | 29.19 | 5.49 | 49.71 | 15.03 | 0.58 |
| 1370-130A | | 3820-3822 | 33.14 | 4.90 | 52.45 | 8.65 | 0.86 |
| 1370-138A | | 3840-3842 | 36.12 | 5.93 | 49.60 | 7.55 | 0.81 |
| 1370-142A | | 3850-3852 | 24.80 | 4.00 | 61.60 | 8.80 | 0.80 |
| 1370-146A | | 3860-3862 | 39.29 | 5.56 | 44.84 | 9.92 | 0.40 |
| 1370-150A | | 3870-3872 | 32.95 | 4.83 | 52.84 | 8.81 | 0.57 |
| 1370-154A | | 3880-3882 | 31.53 | 5.11 | 41.48 | 21.02 | 0.85 |
| 1370-158A | | 3890-3892 | 38.59 | 6.38 | 33.56 | 19.80 | 1.68 |
| 1370-162A | | 3900-3902 | 36.68 | 6.95 | 40.93 | 14.67 | 0.77 |

S - shale, SS - sandstone, L - limestone, D - dolomite, M - mixed, see Table 1.

TABLE 4b
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL



| JOB | LITHO | DEPTH | HYDROCARBONS | | NON HYDROCARBONS | | |
|-----------|-------|-----------|--------------|-----------|----------------------|--------------|------------------|
| | | | Saturates | Aromatics | Precipd. Asphaltenes | Eluted NSO's | Non eluted NSO's |
| 1370-166A | | 3910-3912 | 20.83 | 4.17 | 60.19 | 13.43 | 1.39 |
| 1370-170A | | 3920-3922 | 30.12 | 6.02 | 39.76 | 22.89 | 1.20 |
| 1370-174A | | 3930-3932 | 32.79 | 5.57 | 39.02 | 21.31 | 1.31 |
| 1370-178A | | 3940-3942 | 33.89 | 6.31 | 37.21 | 21.93 | 0.66 |
| 1370-182A | | 3950-3952 | 24.13 | 5.02 | 45.17 | 25.10 | 0.58 |
| 1370-186A | | 3960-3962 | 36.07 | 5.71 | 27.63 | 29.45 | 1.14 |
| 1370-190A | | 3970-3972 | 37.88 | 7.36 | 33.55 | 19.91 | 1.30 |
| 1370-194A | | 3980-3982 | 36.05 | 6.88 | 23.37 | 32.79 | 0.91 |
| 1370-198A | | 3990-3992 | 27.86 | 6.57 | 34.31 | 29.56 | 1.70 |
| 1370-202A | | 4000-4002 | 37.05 | 5.57 | 47.63 | 9.47 | 0.28 |
| 1370-206A | | 4010-4012 | 38.49 | 6.49 | 41.63 | 12.34 | 1.05 |
| 1370-210A | | 4020-4022 | 38.63 | 6.36 | 42.30 | 12.47 | 0.24 |
| 1370-214A | | 4030-4032 | 30.54 | 5.19 | 55.69 | 7.98 | 0.60 |
| 1370-218A | | 4040-4042 | 37.11 | 5.08 | 47.66 | 9.38 | 0.78 |
| 1370-222A | | 4050-4052 | 46.79 | 6.89 | 35.87 | 10.21 | 0.24 |
| 1370-230A | | 4070-4072 | 36.69 | 6.20 | 32.04 | 24.29 | 0.78 |
| 1370-234A | | 4080-4082 | 37.98 | 6.01 | 39.53 | 15.70 | 0.78 |
| 1370-238A | | 4090-4092 | 35.29 | 5.61 | 44.65 | 13.64 | 0.80 |
| 1370-242A | | 4100-4102 | 39.55 | 5.65 | 39.83 | 13.84 | 1.13 |
| 1370-246A | | 4110-4112 | 40.28 | 5.63 | 43.10 | 10.14 | 0.85 |
| 1370-250A | | 4120-4122 | 37.47 | 5.14 | 43.04 | 13.70 | 0.64 |
| 1370-254A | | 4130-4132 | 38.92 | 5.41 | 40.54 | 14.05 | 1.08 |
| 1370-258A | | 4140-4142 | 51.21 | 4.84 | 31.85 | 11.29 | 0.81 |
| 1370-262A | | 4150-4152 | 37.92 | 5.83 | 42.08 | 13.33 | 0.83 |
| 1370-266A | | 4160-4162 | 31.84 | 4.90 | 52.24 | 10.20 | 0.82 |
| 1370-270A | | 4170-4172 | 29.86 | 5.21 | 53.55 | 10.90 | 0.47 |
| 1370-274A | | 4180-4182 | 24.70 | 4.04 | 53.92 | 16.39 | 0.95 |
| 1370-278A | | 4190-4192 | 16.73 | 3.19 | 58.17 | 21.12 | 0.80 |
| 1370-282A | | 4200-4202 | 27.65 | 4.41 | 50.59 | 16.76 | 0.59 |
| 1370-286A | | 4210-4212 | 28.41 | 5.85 | 50.70 | 13.65 | 1.39 |
| 1370-290A | | 4220-4222 | 37.07 | 6.12 | 30.95 | 24.83 | 1.02 |
| 1370-294A | | 4230-4232 | 39.25 | 6.31 | 27.10 | 26.17 | 1.17 |
| 1370-298A | | 4240-4242 | 38.86 | 7.25 | 27.72 | 25.13 | 1.04 |
| 1370-302A | | 4250-4252 | 34.01 | 4.76 | 40.36 | 20.41 | 0.45 |
| 1370-306A | | 4260-4262 | 28.10 | 4.76 | 47.14 | 18.57 | 1.43 |
| 1370-310A | | 4270-4272 | 39.33 | 5.40 | 40.36 | 14.40 | 0.51 |
| 1370-314A | | 4280-4282 | 18.70 | 4.88 | 53.66 | 20.33 | 2.44 |
| 1370-318B | | 4290-4292 | 17.31 | 3.85 | 47.12 | 28.85 | 2.88 |
| 1370-322A | | 4300-4302 | 31.51 | 9.13 | 34.25 | 23.29 | 1.83 |
| 1370-345A | | 4695-4697 | 22.01 | 5.74 | 40.67 | 30.14 | 1.44 |
| 1370-346A | | 4700-4702 | 26.72 | 7.29 | 31.17 | 34.41 | 0.40 |
| 1370-349A | | 4725-4727 | 38.98 | 7.46 | 36.95 | 14.92 | 1.69 |
| 1370-351A | | 4745-4747 | 25.40 | 7.66 | 35.89 | 29.44 | 1.61 |
| 1370-353A | | 4762-4765 | 31.85 | 5.74 | 43.08 | 18.54 | 0.78 |
| 1370-344A | | 4770 | 17.54 | 3.51 | 61.40 | 15.79 | 1.75 |
| 1370-357A | | 4787-4790 | 37.27 | 5.17 | 40.59 | 15.87 | 1.11 |
| 1370-327B | | 4800-4802 | 21.90 | 5.71 | 55.24 | 16.19 | 0.95 |
| 1370-343A | | 4808.1 | 20.78 | 4.55 | 61.04 | 12.34 | 1.30 |
| 1370-331A | | 4810-4812 | 35.55 | 8.20 | 40.62 | 14.06 | 1.56 |
| 1370-359A | | 4817-4820 | 40.20 | 5.71 | 36.12 | 17.35 | 0.61 |

TABLE 5
SIGNIFICANT RATIOS (%) OF C₁₅₊ FRACTIONS AND ORGANIC CARBON



| OB | LITHO | DEPTH | ORGANIC CARBON (wt. %) | HYDROCARBONS | | TOTAL EXTRACT ORG. CARBON | SATURATES AROMATICS |
|-----------------------|-------|-----------|------------------------|---------------|-------------|------------------------------|------------------------|
| GEOCHEM SAMPLE NUMBER | | | | TOTAL EXTRACT | ORG. CARBON | | |
| 7120/9-2 | | | | | | | |
| 1370-001A | | 2700-2702 | 0.48 | 59.49 | 4.14 | 6.96 | 7.15 |
| 1370-005A | | 2710-2712 | 0.39 | 48.53 | 1.44 | 2.96 | 8.90 |
| 1370-009A | | 2720-2722 | 0.37 | 44.80 | 3.79 | 8.47 | 8.33 |
| 1370-013A | | 2730-2732 | 0.35 | 49.22 | 4.80 | 9.74 | 8.50 |
| 1370-336A | | 2736 | 0.28 | 33.77 | 3.92 | 11.60 | 6.43 |
| 1370-017A | | 2740-2742 | 0.53 | 50.53 | 4.03 | 7.98 | 7.47 |
| 1370-021A | | 2750-2752 | 0.38 | 55.60 | 12.91 | 23.21 | 8.62 |
| 1370-025A | | 2760-2762 | 0.27 | 44.02 | 11.47 | 26.07 | 7.14 |
| 1370-029A | | 2770-2772 | 0.31 | 41.52 | 7.94 | 19.12 | 6.75 |
| 1370-033 | | 2780-2782 | 0.31 | 37.01 | 9.75 | 26.35 | 7.77 |
| 1370-037 | | 2790-2792 | 0.26 | 37.75 | 8.92 | 23.62 | 6.05 |
| 1370-041A | | 2800-2802 | 0.24 | 31.64 | 16.20 | 51.22 | 5.22 |
| 1370-045A | | 2810-2812 | 0.25 | 28.57 | 12.35 | 43.22 | 4.75 |
| 1370-049A | | 2820-2822 | 0.23 | 28.00 | 20.63 | 73.69 | 6.00 |
| 1370-339A | | 2823 | 0.19 | 29.31 | 5.87 | 20.02 | 5.80 |
| 1370-337A | | 2823 | 0.23 | 32.50 | 14.25 | 43.84 | 5.50 |
| 1370-053A | | 2830-2832 | 0.28 | 50.71 | 10.24 | 20.19 | 6.96 |
| 1370-057A | | 2840-2842 | 0.31 | 38.57 | 5.21 | 13.52 | 6.53 |
| 1370-338A | | 2840 | 0.15 | 23.01 | 8.84 | 38.44 | 5.50 |
| 1370-342A | | 2849 | 0.68 | 48.15 | 9.03 | 18.76 | 7.07 |
| 1370-061A | | 2850-2852 | 0.31 | 42.59 | 3.76 | 8.83 | 7.36 |
| 1370-332A | | 2856 | 0.40 | 34.62 | 21.28 | 61.49 | 6.87 |
| 1370-064A | | 2860-2862 | 0.63 | 39.83 | 3.44 | 8.63 | 5.48 |
| 1370-068A | | 2870-2872 | 0.63 | 41.53 | 1.80 | 4.33 | 5.87 |
| 1370-072A+B | | 2880-2882 | 0.47 | 43.33 | 1.93 | 4.45 | 6.09 |
| 1370-333A | | 2887 | 0.91 | 45.49 | 21.18 | 46.55 | 6.57 |
| 1370-076A+B | | 2890-2892 | 0.53 | 41.91 | 2.91 | 6.95 | 5.00 |
| 1370-340A | | 2898 | 0.37 | 21.82 | 6.49 | 29.73 | 5.00 |
| 1370-083A+B | | 2920-2922 | 0.41 | 39.62 | 5.82 | 14.69 | 7.40 |
| 1370-087A | | 2930-2932 | 0.63 | 48.25 | 8.23 | 17.06 | 6.60 |
| 1370-091A | | 2940-2942 | 0.57 | 49.07 | 5.25 | 10.70 | 7.25 |
| 1370-094A | | 2947-2950 | 0.35 | 43.26 | 5.10 | 11.80 | 6.18 |
| 1370-095A+C | | 2962-2965 | 0.86 | 37.20 | 2.72 | 7.30 | 5.30 |
| 1370-098A+B | | 2970-2972 | 0.63 | 41.88 | 2.73 | 6.51 | 7.29 |
| 1370-102A | | 2980-2982 | 0.57 | 37.50 | 2.67 | 7.12 | 5.46 |
| 1370-106A | | 2990-2992 | 0.64 | 39.63 | 5.08 | 12.83 | 5.57 |
| 1370-335A | | 2996 | 0.25 | 46.10 | 15.48 | 33.57 | 7.32 |
| 1370-110A | | 3000-3002 | 0.87 | 53.06 | 6.46 | 12.18 | 6.27 |
| 1370-341A | | 3008 | 0.94 | 28.54 | 3.99 | 13.99 | 2.34 |
| 1370-334A | | 3017.5 | 0.36 | 53.95 | 14.92 | 27.65 | 5.82 |
| 1370-122A | | 3800-3802 | 0.95 | 34.13 | 1.18 | 3.45 | 7.14 |
| 1370-126A | | 3810-3812 | 0.97 | 34.68 | 2.76 | 7.96 | 5.32 |
| 1370-130A | | 3820-3822 | 1.00 | 38.04 | 4.19 | 11.02 | 6.76 |
| 1370-138A | | 3840-3842 | 1.03 | 42.05 | 1.52 | 3.61 | 6.09 |
| 1370-142A | | 3850-3852 | 0.94 | 28.80 | 0.53 | 1.86 | 6.20 |
| 1370-146A | | 3860-3862 | 0.90 | 44.84 | 2.05 | 4.58 | 7.07 |
| 1370-150A | | 3870-3872 | 0.88 | 37.78 | 2.76 | 7.30 | 6.82 |
| 1370-154A | | 3880-3882 | 0.82 | 36.65 | 4.21 | 11.48 | 6.17 |
| 1370-158A | | 3890-3892 | 0.93 | 44.97 | 3.01 | 6.70 | 6.05 |
| 1370-162A | | 3900-3902 | 0.89 | 43.63 | 1.95 | 4.47 | 5.28 |

ROCKWELL

TABLE 5
SIGNIFICANT RATIOS (%) OF C₁₅₊ FRACTIONS AND ORGANIC CARBON

| JOB | | | | | | | |
|-----------------------------|-------|-----------|------------------------------|-------------------------------|-----------------------------|------------------------------|------------------------|
| GEOCHEM SAMPLE NUMBER | LITHO | DEPTH | ORGANIC CARBON (wt. %) | HYDROCARBONS TOTAL EXTRACT | HYDROCARBONS ORG. CARBON | TOTAL EXTRACT ORG. CARBON | SATURATES AROMATICS |
| 1370-166A | | 3910-3912 | 0.86 | 25.00 | 1.02 | 4.09 | 5.00 |
| 1370-170A | | 3920-3922 | 0.92 | 36.14 | 2.91 | 8.06 | 5.00 |
| 1370-174A | | 3930-3932 | 0.93 | 38.36 | 2.87 | 7.47 | 5.88 |
| 1370-178A | | 3940-3942 | 0.89 | 40.20 | 2.33 | 5.79 | 5.37 |
| 1370-182A | | 3950-3952 | 0.88 | 29.15 | 2.48 | 8.52 | 4.81 |
| 1370-186A | | 3960-3962 | 1.05 | 41.78 | 1.98 | 4.73 | 6.32 |
| 1370-190A | | 3970-3972 | 1.32 | 45.24 | 2.88 | 6.36 | 5.15 |
| 1370-194A | | 3980-3982 | 0.97 | 42.93 | 2.79 | 6.50 | 5.24 |
| 1370-198A | | 3990-3992 | 0.93 | 34.43 | 3.64 | 10.59 | 4.24 |
| 1370-202A | | 4000-4002 | 0.89 | 42.62 | 1.59 | 3.74 | 6.65 |
| 1370-206A | | 4010-4012 | 0.86 | 44.98 | 3.82 | 8.49 | 5.94 |
| 1370-210A | | 4020-4022 | 0.89 | 44.99 | 4.38 | 9.74 | 6.08 |
| 1370-214A | | 4030-4032 | 0.91 | 35.73 | 4.01 | 11.21 | 5.88 |
| 1370-218A | | 4040-4042 | 0.87 | 42.19 | 1.94 | 4.60 | 7.31 |
| 1370-222A | | 4050-4052 | 0.99 | 53.68 | 1.71 | 3.19 | 6.79 |
| 1370-230A | | 4070-4072 | 0.90 | 42.89 | 4.08 | 9.51 | 5.92 |
| 1370-234A | | 4080-4082 | 0.93 | 43.99 | 2.52 | 5.73 | 6.32 |
| 1370-238A | | 4090-4092 | 1.01 | 40.91 | 2.09 | 5.11 | 6.29 |
| 1370-242A | | 4100-4102 | 0.91 | 45.20 | 1.71 | 3.78 | 7.00 |
| 1370-246A | | 4110-4112 | 1.05 | 45.92 | 2.00 | 4.36 | 7.15 |
| 1370-250A | | 4120-4122 | 0.89 | 42.61 | 2.58 | 6.06 | 7.29 |
| 1370-254A | | 4130-4132 | 0.76 | 44.32 | 1.03 | 2.32 | 7.20 |
| 1370-258A | | 4140-4142 | 0.69 | 56.05 | 1.85 | 3.30 | 10.58 |
| 1370-262A | | 4150-4152 | 0.67 | 43.75 | 2.30 | 5.26 | 6.50 |
| 1370-266A | | 4160-4162 | 0.71 | 36.73 | 1.56 | 4.24 | 6.50 |
| 1370-270A | | 4170-4172 | 0.60 | 35.07 | 1.64 | 4.68 | 5.73 |
| 1370-274A | | 4180-4182 | 1.80 | 28.74 | 0.98 | 3.42 | 6.12 |
| 1370-278A | | 4190-4192 | 2.88 | 19.92 | 0.45 | 2.28 | 5.25 |
| 1370-282A | | 4200-4202 | 0.97 | 32.06 | 2.21 | 6.89 | 6.27 |
| 1370-286A | | 4210-4212 | 0.77 | 34.26 | 1.49 | 4.36 | 4.86 |
| 1370-290A | | 4220-4222 | 0.76 | 43.20 | 3.00 | 6.95 | 6.06 |
| 1370-294A | | 4230-4232 | 0.97 | 45.56 | 2.51 | 5.51 | 6.22 |
| 1370-298A | | 4240-4242 | 1.09 | 46.11 | 3.29 | 7.13 | 5.36 |
| 1370-302A | | 4250-4252 | 1.47 | 38.78 | 2.76 | 7.11 | 7.14 |
| 1370-306A | | 4260-4262 | 0.64 | 32.86 | 10.08 | 30.67 | 5.90 |
| 1370-310A | | 4270-4272 | 0.67 | 44.73 | 13.32 | 29.77 | 7.29 |
| 1370-314A | | 4280-4282 | 0.26 | 23.58 | 11.04 | 46.84 | 3.83 |
| 1370-318B | | 4290-4292 | 0.21 | 21.15 | 19.77 | 93.44 | 4.50 |
| 1370-322A | | 4300-4302 | 0.35 | 40.64 | 3.48 | 8.57 | 3.45 |
| 1370-345A | | 4695-4697 | 0.94 | 27.75 | 0.99 | 3.56 | 3.83 |
| 1370-346A | | 4700-4702 | 0.98 | 34.01 | 1.50 | 4.42 | 3.67 |
| 1370-349A | | 4725-4727 | 0.56 | 46.44 | 4.10 | 8.82 | 5.23 |
| 1370-351A | | 4745-4747 | 0.62 | 33.06 | 2.30 | 6.94 | 3.32 |
| 1370-353A | | 4762-4765 | 0.88 | 37.60 | 5.18 | 13.77 | 5.55 |
| 1370-344A | | 4770 | 0.58 | 21.05 | 10.34 | 49.14 | 5.00 |
| 1370-357A | | 4787-4790 | 0.85 | 42.44 | 1.47 | 3.45 | 7.21 |
| 1370-327B | | 4800-4802 | 1.45 | 27.62 | 7.14 | 25.86 | 3.83 |
| 1370-343A | | 4808.1 | 1.37 | 25.32 | 2.69 | 10.60 | 4.57 |
| 1370-331A | | 4810-4812 | 1.41 | 43.75 | 9.24 | 21.11 | 4.33 |
| 1370-359A | | 4817-4820 | 0.98 | 45.92 | 5.47 | 11.90 | 7.04 |



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN – NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -001A | -005A | -009A | -013A | -336A | -017A | -021A | -025A |
|---------------------------|----------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|
| DEPTH | 2700- 2702m | 2710- 2712m | 2720- 2722m | 2730- 2732m | 2736m SWC | 2740- 2742m | 2750- 2752m | 2760- 2762m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| C ₁₅ | 2.95 | 0.48 | 0.14 | 1.25 | 0.73 | 0.76 | 1.34 | 0.81 |
| C ₁₆ | 10.32 | 5.14 | 1.00 | 5.85 | 5.28 | 6.52 | 5.79 | 6.89 |
| C ₁₇ | 14.29 | 16.08 | 8.58 | 12.43 | 9.12 | 12.28 | 11.25 | 11.04 |
| C ₁₈ | 15.99 | 23.47 | 16.45 | 12.75 | 13.87 | 15.43 | 15.26 | 13.48 |
| C ₁₉ | 14.40 | 18.97 | 20.31 | 14.11 | 13.38 | 13.91 | 13.03 | 13.68 |
| C ₂₀ | 12.47 | 13.67 | 14.88 | 10.97 | 12.29 | 13.26 | 11.80 | 13.17 |
| C ₂₁ | 7.71 | 8.04 | 10.87 | 7.73 | 8.67 | 10.11 | 8.69 | 10.54 |
| C ₂₂ | 5.56 | 4.82 | 7.15 | 6.48 | 7.42 | 7.61 | 6.46 | 9.32 |
| C ₂₃ | 3.97 | 2.25 | 5.58 | 5.33 | 5.96 | 5.43 | 5.57 | 5.37 |
| C ₂₄ | 2.83 | 1.45 | 2.72 | 3.76 | 3.65 | 3.48 | 4.68 | 3.24 |
| C ₂₅ | 1.81 | 0.96 | 1.72 | 3.34 | 3.53 | 2.72 | 3.23 | 2.84 |
| C ₂₆ | 1.25 | 0.64 | 1.72 | 2.72 | 2.43 | 1.63 | 2.23 | 2.13 |
| C ₂₇ | 0.91 | 0.64 | 1.57 | 2.72 | 3.04 | 1.30 | 2.23 | 1.72 |
| C ₂₈ | 1.47 | 0.64 | 2.00 | 2.09 | 1.82 | 1.41 | 1.78 | 1.42 |
| C ₂₉ | 1.59 | 0.80 | 2.00 | 2.51 | 3.89 | 1.30 | 2.23 | 1.72 |
| C ₃₀ | 1.02 | 0.32 | 1.00 | 1.67 | 1.34 | 0.65 | 1.22 | 0.61 |
| C ₃₁ | 0.57 | 0.32 | 1.29 | 1.78 | 2.68 | 0.87 | 1.45 | 0.91 |
| C ₃₂ | 0.23 | 0.48 | 0.43 | 0.94 | 1.09 | 0.54 | 0.67 | 0.41 |
| C ₃₃ | 0.34 | 0.32 | 0.29 | 0.73 | 0.85 | 0.43 | 0.56 | 0.41 |
| C ₃₄ | 0.23 | 0.32 | 0.14 | 0.52 | 0.36 | 0.22 | 0.33 | 0.20 |
| C ₃₅ | 0.11 | 0.16 | 0.14 | 0.31 | 0.49 | 0.11 | 0.22 | 0.10 |
| PARAFFIN | 36.40 | 49.80 | 45.96 | 40.97 | 16.16 | 50.14 | 37.75 | 46.43 |
| ISOPRENOID | 4.70 | 6.57 | 4.14 | 6.72 | 4.07 | 7.63 | 6.09 | 7.15 |
| NAPHTHENE | 58.89 | 43.63 | 49.90 | 52.31 | 79.77 | 42.23 | 56.16 | 46.43 |
| PI INDEX 1 | 0.97 | 1.08 | 1.10 | 1.03 | 1.11 | 1.07 | 1.04 | 1.00 |
| PI INDEX 2 | 0.98 | 1.10 | 1.08 | 1.20 | 1.69 | 1.16 | 1.23 | 1.28 |
| PI INDEX 3 | 0.67 | 1.00 | 0.85 | 1.13 | 1.43 | 0.86 | 1.11 | 0.97 |
| TRISTANE/PHYTANE | 1.00 | 0.95 | 0.57 | 1.04 | 0.63 | 1.00 | 0.88 | 1.11 |
| TRISTANE/nC ₁₇ | 0.45 | 0.40 | 0.38 | 0.67 | 1.07 | 0.62 | 0.67 | 0.73 |

$$I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$

- ditch cuttings CO— core SWC — sidewall core



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN – NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -029A | -033 | -037 | -041A | -045A | -049A | -337A | -339A |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|
| DEPTH | 2770- 2772m | 2780- 2782m | 2790- 2792m | 2800- 2802m | 2810- 2812m | 2820- 2822m | 2823m SWC | 2823m SWC |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| 15 | 1.03 | 0.55 | 1.43 | 0.50 | 0.49 | 0.60 | 0.39 | 0.28 |
| 16 | 5.17 | 7.50 | 9.27 | 3.78 | 0.73 | 4.34 | 0.49 | 0.57 |
| 17 | 9.61 | 14.33 | 16.41 | 8.66 | 2.43 | 8.52 | 1.76 | 1.70 |
| 18 | 13.53 | 15.21 | 19.40 | 14.43 | 6.33 | 10.99 | 8.89 | 7.53 |
| 19 | 13.33 | 14.77 | 15.41 | 12.24 | 7.06 | 10.99 | 9.57 | 9.80 |
| 20 | 13.33 | 13.12 | 11.55 | 12.64 | 6.08 | 11.50 | 12.89 | 10.37 |
| 21 | 9.40 | 9.48 | 7.70 | 8.76 | 5.84 | 10.05 | 11.33 | 9.94 |
| 22 | 8.37 | 7.17 | 5.14 | 7.56 | 4.62 | 7.07 | 8.89 | 8.81 |
| 23 | 5.79 | 4.74 | 3.28 | 5.47 | 3.16 | 4.60 | 6.74 | 6.82 |
| 24 | 4.55 | 3.09 | 2.28 | 4.68 | 2.43 | 3.58 | 4.10 | 5.11 |
| 25 | 3.00 | 2.21 | 1.57 | 3.88 | 35.77 | 3.15 | 3.91 | 5.11 |
| 26 | 2.17 | 1.76 | 1.14 | 3.08 | 1.95 | 2.98 | 2.44 | 3.69 |
| 27 | 2.17 | 1.54 | 1.14 | 2.69 | 2.68 | 3.15 | 4.20 | 4.69 |
| 28 | 1.65 | 0.99 | 0.71 | 2.79 | 1.95 | 4.34 | 4.79 | 4.26 |
| 29 | 2.27 | 0.99 | 1.28 | 2.69 | 5.11 | 3.58 | 7.42 | 5.97 |
| 30 | 1.24 | 0.66 | 0.43 | 1.39 | 1.70 | 2.30 | 1.37 | 8.95 |
| 31 | 1.45 | 0.77 | 0.86 | 2.19 | 6.08 | 3.92 | 4.79 | 1.14 |
| 32 | 0.72 | 0.55 | 0.43 | 0.90 | 1.46 | 1.70 | 2.54 | 0.71 |
| 33 | 0.52 | 0.33 | 0.29 | 0.90 | 3.41 | 1.11 | 1.56 | 2.13 |
| 34 | 0.41 | 0.11 | 0.14 | 0.50 | 0.49 | 0.77 | 1.17 | 0.28 |
| 35 | 0.31 | 0.11 | 0.14 | 0.30 | 0.24 | 0.77 | 0.78 | 2.13 |
| PARAFFIN | 35.91 | 48.30 | 38.33 | 48.04 | 45.12 | 38.33 | 34.92 | 40.95 |
| SOPRENOID | 4.86 | 8.52 | 6.34 | 4.97 | 1.76 | 3.72 | 1.71 | 1.69 |
| NAPHTHENE | 59.24 | 43.18 | 55.33 | 46.99 | 53.13 | 57.95 | 63.37 | 57.36 |
| PI INDEX 1 | 0.97 | 1.05 | 1.08 | 0.95 | 3.74 | 1.00 | 1.11 | 1.08 |
| PI INDEX 2 | 1.23 | 1.12 | 1.43 | 1.18 | 6.61 | 1.13 | 1.71 | 0.86 |
| PI INDEX 3 | 1.14 | 1.12 | 1.23 | 0.92 | 1.37 | 0.86 | 1.16 | 1.18 |
| RISTANE/PHYTANE | 0.87 | 1.11 | 1.07 | 0.93 | 0.60 | 1.04 | 0.56 | 0.53 |
| RISTANE/nC ₁₇ | 0.66 | 0.65 | 0.52 | 0.57 | 0.60 | 0.58 | 1.00 | 0.83 |

$$I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN – NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -053A | -057A | -338A | -342A | -061A | -0332A | -064A | -068A |
|--------------------------|----------------|----------------|--------------|--------------|----------------|--------------|----------------|----------------|
| DEPTH | 2830- 2832m | 2840- 2842m | 2840m SWC | 2849m SWC | 2850- 2852m | 2856m SWC | 2860- 2862m | 2870- 2872m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| C ₁₅ | 3.77 | 2.18 | 0.41 | 6.53 | 1.88 | 0.11 | 4.04 | 2.86 |
| C ₁₆ | 8.99 | 8.84 | 1.23 | 11.14 | 8.78 | 2.74 | 11.28 | 9.45 |
| C ₁₇ | 11.10 | 13.56 | 2.73 | 13.86 | 15.18 | 9.49 | 14.29 | 12.42 |
| C ₁₈ | 14.87 | 16.83 | 5.87 | 13.05 | 17.06 | 11.50 | 13.77 | 13.96 |
| C ₁₉ | 14.32 | 16.22 | 10.23 | 12.15 | 13.93 | 14.14 | 11.90 | 12.86 |
| C ₂₀ | 13.87 | 12.11 | 9.55 | 11.75 | 11.79 | 13.92 | 10.87 | 11.32 |
| C ₂₁ | 8.99 | 7.63 | 11.60 | 8.03 | 8.16 | 12.45 | 8.28 | 8.13 |
| C ₂₂ | 7.21 | 5.93 | 9.55 | 6.12 | 5.77 | 11.18 | 6.63 | 6.37 |
| C ₂₃ | 4.77 | 4.12 | 5.87 | 5.52 | 4.89 | 7.49 | 4.55 | 5.16 |
| C ₂₄ | 3.33 | 3.27 | 3.82 | 3.61 | 2.89 | 5.17 | 3.93 | 3.52 |
| C ₂₅ | 2.33 | 2.06 | 4.37 | 2.51 | 2.38 | 4.01 | 2.59 | 3.41 |
| C ₂₆ | 1.55 | 1.57 | 3.00 | 1.61 | 1.25 | 2.22 | 1.76 | 1.87 |
| C ₂₇ | 1.44 | 1.45 | 5.59 | 1.31 | 1.38 | 1.79 | 1.66 | 2.20 |
| C ₂₈ | 0.67 | 0.97 | 2.59 | 0.80 | 0.75 | 0.95 | 1.04 | 1.32 |
| C ₂₉ | 0.89 | 1.21 | 7.91 | 0.80 | 1.25 | 1.27 | 1.04 | 1.76 |
| C ₃₀ | 0.55 | 0.36 | 2.05 | 0.30 | 0.63 | 0.32 | 0.52 | 0.99 |
| C ₃₁ | 0.55 | 0.85 | 5.32 | 0.30 | 0.88 | 0.63 | 0.72 | 1.10 |
| C ₃₂ | 0.33 | 0.36 | 3.96 | 0.20 | 0.50 | 0.21 | 0.41 | 0.55 |
| C ₃₃ | 0.22 | 0.24 | 2.05 | 0.20 | 0.25 | 0.21 | 0.41 | 0.44 |
| C ₃₄ | 0.11 | 0.12 | 0.41 | 0.10 | 0.25 | 0.11 | 0.21 | 0.22 |
| C ₃₅ | 0.11 | 0.12 | 1.91 | 0.10 | 0.13 | 0.11 | 0.10 | 0.11 |
| PARAFFIN | 37.97 | 42.29 | 32.35 | 47.20 | 36.76 | 45.19 | 35.67 | 28.67 |
| SOPRENOID | 5.44 | 6.04 | 1.41 | 7.73 | 5.21 | 7.24 | 4.95 | 4.32 |
| NAPHTHENE | 56.50 | 51.66 | 66.24 | 45.07 | 58.03 | 47.57 | 59.38 | 67.01 |
| PI INDEX 1 | 1.02 | 0.98 | 1.25 | 1.09 | 1.18 | 1.06 | 1.01 | 1.13 |
| PI INDEX 2 | 1.27 | 1.30 | 2.01 | 1.23 | 1.47 | 1.49 | 1.22 | 1.45 |
| PI INDEX 3 | 1.30 | 1.14 | 2.00 | 1.08 | 1.37 | 1.13 | 1.19 | 1.38 |
| RISTANE/PHYTANE | 0.98 | 0.93 | 0.45 | 1.33 | 0.95 | 0.77 | 1.23 | 1.11 |
| RISTANE/nC ₁₇ | 0.64 | 0.51 | 0.50 | 0.67 | 0.45 | 0.73 | 0.54 | 0.64 |

$$I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -072A+B | -333A | -076A+B | -340A | -083A+B | -087A | -091A | -094A |
|--------------------------|----------------|--------------|----------------|--------------|----------------|----------------|----------------|----------------|
| DEPTH | 2880- 2882m | 2887m SWC | 2890- 2892m | 2898m SWC | 2920- 2922m | 2930- 2932m | 2940- 2942m | 2947- 2950m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| C ₁₅ | 3.85 | 0.72 | 0.63 | 0.60 | 2.15 | 5.18 | 6.84 | 0.65 |
| C ₁₆ | 10.38 | 6.57 | 2.83 | 4.54 | 7.10 | 10.09 | 9.86 | 3.46 |
| C ₁₇ | 12.15 | 10.68 | 8.60 | 12.00 | 11.11 | 10.71 | 10.83 | 10.58 |
| C ₁₈ | 13.04 | 13.86 | 13.73 | 13.61 | 12.32 | 11.96 | 11.99 | 14.47 |
| C ₁₉ | 11.66 | 12.63 | 13.73 | 12.00 | 12.14 | 10.27 | 8.70 | 14.47 |
| C ₂₀ | 9.78 | 13.04 | 12.68 | 11.19 | 10.64 | 10.09 | 8.70 | 12.10 |
| C ₂₁ | 8.89 | 12.22 | 9.57 | 10.89 | 7.66 | 8.39 | 7.19 | 9.50 |
| C ₂₂ | 6.23 | 9.34 | 8.70 | 8.27 | 7.75 | 6.70 | 6.04 | 7.13 |
| C ₂₃ | 4.35 | 6.57 | 6.18 | 6.05 | 5.04 | 5.45 | 5.42 | 6.16 |
| C ₂₄ | 3.16 | 4.93 | 5.45 | 4.33 | 4.86 | 3.93 | 3.91 | 4.32 |
| C ₂₅ | 3.36 | 3.08 | 4.09 | 3.73 | 3.64 | 3.66 | 3.46 | 3.35 |
| C ₂₆ | 2.08 | 2.05 | 2.83 | 2.42 | 2.80 | 2.86 | 2.84 | 2.59 |
| C ₂₇ | 2.08 | 1.44 | 2.94 | 2.82 | 2.71 | 2.68 | 2.93 | 3.02 |
| C ₂₈ | 1.48 | 0.92 | 1.57 | 1.31 | 2.05 | 1.87 | 1.95 | 1.73 |
| C ₂₉ | 2.77 | 0.82 | 2.62 | 2.32 | 2.89 | 2.41 | 3.37 | 2.92 |
| C ₃₀ | 1.09 | 0.51 | 1.15 | 1.01 | 1.40 | 1.43 | 1.60 | 1.19 |
| C ₃₁ | 0.48 | 0.41 | 1.15 | 1.51 | 2.05 | 1.07 | 1.51 | 1.19 |
| C ₃₂ | 0.89 | 0.10 | 0.63 | 0.50 | 0.75 | 0.62 | 1.60 | 0.54 |
| C ₃₃ | 0.69 | 0.10 | 0.42 | 0.50 | 0.65 | 0.36 | 0.62 | 0.22 |
| C ₃₄ | 0.40 | 0.00 | 0.21 | 0.20 | 0.19 | 0.18 | 0.36 | 0.22 |
| C ₃₅ | 0.20 | 0.00 | 0.10 | 0.20 | 0.09 | 0.09 | 0.27 | 0.22 |
| ARAFFIN | 38.00 | 45.99 | 35.49 | 34.78 | 39.36 | 35.67 | 40.24 | 33.76 |
| SOPRENOID | 4.88 | 7.93 | 3.13 | 5.50 | 4.85 | 3.95 | 4.93 | 3.46 |
| APHTHENE | 57.12 | 46.08 | 61.38 | 59.71 | 55.79 | 60.38 | 54.82 | 62.78 |
| PI INDEX 1 | 1.16 | 1.07 | 1.01 | 1.17 | 0.91 | 1.09 | 1.09 | 1.12 |
| PI INDEX 2 | 1.50 | 1.14 | 1.36 | 1.56 | 1.32 | 1.21 | 1.25 | 1.40 |
| PI INDEX 3 | 1.17 | 0.97 | 1.33 | 1.51 | 1.12 | 1.13 | 1.22 | 1.40 |
| RISTANE/PHYTANE | 1.17 | 0.85 | 0.75 | 1.01 | 1.00 | 1.18 | 0.97 | 0.76 |
| RISTANE/nC ₁₇ | 0.57 | 0.74 | 0.44 | 0.66 | 0.55 | 0.56 | 0.56 | 0.42 |

$$P.I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$P.I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$P.I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -095A+C | -098A+B | -102A | -106A | -335A | -110A | -341A | -334A |
|--------------------------|----------------|----------------|----------------|----------------|--------------|----------------|--------------|----------------|
| DEPTH | 2962- 2965m | 2970- 2972m | 2980- 2982m | 2990- 2992m | 2996m SWC | 3000- 3002m | 3008m SWC | 3017.5m SWC |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| C ₁₅ | 6.48 | 3.34 | 0.65 | 5.36 | 3.39 | 1.31 | 1.36 | 4.83 |
| C ₁₆ | 10.74 | 7.03 | 5.84 | 10.01 | 8.51 | 6.01 | 3.59 | 9.37 |
| C ₁₇ | 12.50 | 8.45 | 10.39 | 12.12 | 11.29 | 11.08 | 5.22 | 10.65 |
| C ₁₈ | 13.15 | 9.80 | 13.27 | 11.76 | 11.38 | 13.43 | 6.37 | 12.43 |
| C ₁₉ | 12.04 | 8.88 | 12.80 | 9.57 | 9.90 | 13.15 | 9.15 | 12.72 |
| C ₂₀ | 9.54 | 9.23 | 11.13 | 9.04 | 8.60 | 12.21 | 8.27 | 10.65 |
| C ₂₁ | 8.15 | 7.88 | 9.00 | 6.94 | 6.86 | 8.54 | 7.79 | 9.07 |
| C ₂₂ | 6.11 | 6.39 | 7.05 | 5.44 | 6.43 | 7.04 | 7.86 | 7.99 |
| C ₂₃ | 4.63 | 5.33 | 6.03 | 5.36 | 4.52 | 5.35 | 7.11 | 5.92 |
| C ₂₄ | 3.80 | 4.40 | 4.36 | 4.65 | 4.43 | 3.94 | 7.25 | 3.85 |
| C ₂₅ | 2.87 | 5.26 | 3.80 | 3.95 | 3.74 | 3.76 | 6.10 | 3.16 |
| C ₂₆ | 2.04 | 3.48 | 2.97 | 2.99 | 3.74 | 2.54 | 5.22 | 2.47 |
| C ₂₇ | 1.76 | 4.19 | 2.60 | 3.42 | 4.00 | 2.35 | 6.03 | 1.68 |
| C ₂₈ | 1.48 | 3.05 | 2.50 | 2.19 | 3.30 | 2.35 | 4.13 | 1.38 |
| C ₂₉ | 2.50 | 5.33 | 2.69 | 2.63 | 3.21 | 1.97 | 4.34 | 1.28 |
| C ₃₀ | 0.65 | 2.49 | 1.21 | 1.49 | 2.43 | 1.22 | 3.25 | 0.69 |
| C ₃₁ | 0.65 | 2.56 | 1.76 | 1.49 | 1.82 | 1.41 | 2.57 | 0.89 |
| C ₃₂ | 0.37 | 1.14 | 0.74 | 0.61 | 1.13 | 0.66 | 1.56 | 0.39 |
| C ₃₃ | 0.28 | 1.07 | 0.65 | 0.61 | 0.70 | 0.75 | 1.42 | 0.30 |
| C ₃₄ | 0.19 | 0.50 | 0.37 | 0.26 | 0.43 | 0.47 | 0.88 | 0.20 |
| C ₃₅ | 0.09 | 0.21 | 0.19 | 0.09 | 0.17 | 0.47 | 0.54 | 0.10 |
| PARAFFIN | 56.22 | 46.19 | 52.77 | 39.34 | 43.06 | 37.87 | 44.09 | 38.79 |
| SOPRENOID | 6.30 | 3.44 | 5.09 | 5.01 | 6.85 | 3.77 | 2.21 | 8.00 |
| NAPHTHENE | 37.48 | 50.36 | 42.14 | 55.65 | 50.09 | 58.46 | 53.70 | 53.21 |
| PI INDEX 1 | 1.05 | 1.14 | 1.05 | 1.09 | 0.95 | 1.02 | 1.03 | 1.03 |
| PI INDEX 2 | 1.35 | 1.50 | 1.22 | 1.30 | 1.06 | 1.17 | 1.15 | 1.13 |
| PI INDEX 3 | 1.00 | 1.28 | 0.95 | 1.32 | 1.14 | 0.96 | 1.29 | 0.87 |
| RISTANE/PHYTANE | 1.42 | 1.33 | 1.00 | 1.16 | 1.38 | 0.86 | 1.31 | 1.27 |
| RISTANE/nC ₁₇ | 0.53 | 0.50 | 0.46 | 0.57 | 0.82 | 0.42 | 0.55 | 1.08 |

$$I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN – NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -122A | -126A | -130A | -138A | -142A | -146A | -150A | -154A |
|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| DEPTH | 3800– 3802m | 3810– 3812m | 3820– 3822m | 3840– 3842m | 3850– 3852m | 3860– 3862m | 3870– 3872m | 3880– 3882m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| iC ₁₅ | 0.56 | 0.10 | 5.25 | 0.22 | 0.49 | 0.99 | 3.40 | 1.50 |
| iC ₁₆ | 1.03 | 1.15 | 11.61 | 3.03 | 0.74 | 7.81 | 10.32 | 7.72 |
| iC ₁₇ | 5.36 | 7.22 | 15.74 | 11.22 | 5.41 | 13.38 | 14.20 | 13.02 |
| iC ₁₈ | 12.50 | 14.64 | 15.18 | 15.60 | 7.38 | 17.22 | 16.26 | 15.78 |
| iC ₁₉ | 12.69 | 14.64 | 13.06 | 15.49 | 10.46 | 15.74 | 13.47 | 15.44 |
| iC ₂₀ | 11.37 | 14.33 | 10.04 | 15.04 | 11.69 | 12.39 | 11.04 | 12.79 |
| iC ₂₁ | 9.30 | 10.04 | 7.37 | 11.11 | 10.58 | 9.67 | 9.83 | 9.22 |
| iC ₂₂ | 7.14 | 7.53 | 4.91 | 8.53 | 8.98 | 7.19 | 6.92 | 7.60 |
| iC ₂₃ | 6.11 | 5.96 | 3.46 | 5.61 | 7.01 | 4.96 | 4.73 | 5.53 |
| iC ₂₄ | 6.11 | 4.60 | 3.68 | 4.04 | 5.66 | 3.35 | 3.16 | 3.57 |
| iC ₂₅ | 5.73 | 3.14 | 2.23 | 3.03 | 4.43 | 2.35 | 1.58 | 1.96 |
| iC ₂₆ | 4.89 | 2.72 | 1.56 | 1.80 | 3.32 | 1.36 | 1.09 | 1.61 |
| iC ₂₇ | 5.08 | 2.72 | 1.23 | 1.46 | 4.31 | 0.87 | 0.85 | 0.92 |
| iC ₂₈ | 3.29 | 2.09 | 1.00 | 1.23 | 2.83 | 0.74 | 0.49 | 0.92 |
| iC ₂₉ | 3.57 | 4.92 | 1.67 | 1.23 | 8.36 | 0.87 | 0.85 | 0.69 |
| iC ₃₀ | 1.69 | 0.94 | 0.67 | 0.34 | 1.97 | 0.25 | 0.24 | 0.46 |
| iC ₃₁ | 1.69 | 1.36 | 0.67 | 0.45 | 2.58 | 0.37 | 0.36 | 0.58 |
| iC ₃₂ | 0.75 | 0.63 | 0.22 | 0.22 | 1.60 | 0.25 | 0.73 | 0.23 |
| iC ₃₃ | 0.56 | 0.63 | 0.22 | 0.11 | 2.05 | 0.12 | 0.12 | 0.23 |
| iC ₃₄ | 0.38 | 0.31 | 0.11 | 0.11 | 0.62 | 0.12 | 0.12 | 0.12 |
| iC ₃₅ | 0.19 | 0.31 | 0.11 | 0.11 | 0.74 | 0.00 | 0.24 | 0.12 |
| PARAFFIN | 33.69 | 32.37 | 26.56 | 44.26 | 18.45 | 46.41 | 42.02 | 42.84 |
| ISOPRENOID | 1.61 | 1.73 | 2.79 | 3.97 | 0.54 | 6.67 | 6.02 | 6.27 |
| NAPHTHENE | 64.69 | 65.90 | 70.65 | 51.76 | 81.01 | 46.92 | 51.96 | 50.89 |
| P.I. INDEX 1 | 1.06 | 1.02 | 0.99 | 1.04 | 1.08 | 1.07 | 1.11 | 0.99 |
| P.I. INDEX 2 | 1.26 | 1.54 | 1.26 | 1.28 | 1.73 | 1.25 | 1.08 | 0.96 |
| P.I. INDEX 3 | 1.24 | 1.13 | 0.96 | 0.96 | 1.40 | 0.82 | 1.08 | 0.73 |
| PRISTANE/PHYTANE | 0.50 | 0.70 | 1.54 | 0.86 | 0.33 | 0.93 | 1.03 | 0.95 |
| PRISTANE/nC ₁₇ | 0.30 | 0.30 | 0.40 | 0.37 | 0.14 | 0.52 | 0.51 | 0.55 |

$$P.I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$P.I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$P.I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN – NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -158A | -162A | -166A | -170A | -174A | -178A | -182A | -186A |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| DEPTH | 3890- 3892m | 3900- 3902m | 3910- 3912m | 3920- 3922m | 3930- 3932m | 3940- 3942m | 3950- 3952m | 3960- 3962m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| C ₁₅ | 1.44 | 6.98 | 0.67 | 0.12 | 0.23 | 0.62 | 0.22 | 0.80 |
| C ₁₆ | 7.78 | 15.27 | 0.67 | 0.25 | 2.36 | 2.35 | 4.90 | 5.26 |
| C ₁₇ | 14.00 | 15.98 | 1.07 | 4.46 | 7.32 | 9.90 | 12.73 | 11.90 |
| C ₁₈ | 16.27 | 16.69 | 0.40 | 13.74 | 12.84 | 15.84 | 14.69 | 15.22 |
| C ₁₉ | 15.55 | 12.90 | 1.21 | 17.33 | 15.09 | 16.46 | 15.23 | 14.76 |
| C ₂₀ | 11.72 | 10.30 | 6.85 | 17.08 | 13.85 | 12.00 | 12.95 | 13.50 |
| C ₂₁ | 10.05 | 7.10 | 15.70 | 13.74 | 11.71 | 9.16 | 8.71 | 9.84 |
| C ₂₂ | 6.94 | 4.73 | 17.18 | 11.26 | 9.80 | 7.92 | 7.40 | 7.78 |
| C ₂₃ | 4.43 | 3.55 | 14.77 | 7.05 | 7.88 | 6.19 | 5.88 | 5.72 |
| C ₂₄ | 3.59 | 2.13 | 11.95 | 4.95 | 4.50 | 4.08 | 4.03 | 4.35 |
| C ₂₅ | 2.03 | 1.07 | 7.92 | 3.34 | 3.04 | 3.09 | 3.59 | 2.52 |
| C ₂₆ | 1.32 | 0.83 | 5.10 | 1.36 | 2.70 | 1.73 | 2.18 | 1.60 |
| C ₂₇ | 1.20 | 0.59 | 3.89 | 1.24 | 2.36 | 2.10 | 1.85 | 1.60 |
| C ₂₈ | 0.72 | 0.59 | 2.28 | 1.24 | 1.35 | 1.49 | 1.31 | 0.92 |
| C ₂₉ | 1.08 | 0.36 | 3.89 | 1.11 | 1.69 | 1.41 | 1.98 | 1.37 |
| C ₃₀ | 0.60 | 0.24 | 2.15 | 0.37 | 0.79 | 1.24 | 0.65 | 0.80 |
| C ₃₁ | 0.48 | 0.36 | 2.42 | 0.62 | 1.13 | 1.49 | 0.98 | 0.80 |
| C ₃₂ | 0.72 | 0.24 | 0.81 | 0.25 | 0.56 | 0.74 | 0.44 | 0.57 |
| C ₃₃ | 0.12 | 0.12 | 0.40 | 0.25 | 0.23 | 0.74 | 0.44 | 0.34 |
| C ₃₄ | 0.00 | 0.00 | 0.40 | 0.12 | 0.34 | 0.62 | 0.22 | 0.23 |
| C ₃₅ | 0.00 | 0.00 | 0.27 | 0.12 | 0.23 | 0.25 | 0.22 | 0.11 |
| ARAFFIN | 36.16 | 49.21 | 23.86 | 48.10 | 31.27 | 28.53 | 46.32 | 32.12 |
| SOPRENOID | 5.32 | 6.70 | 0.10 | 3.10 | 2.61 | 2.97 | 5.29 | 4.15 |
| APHTHENE | 58.52 | 44.09 | 76.05 | 48.81 | 66.13 | 68.50 | 48.39 | 63.73 |
| PI INDEX 1 | 1.08 | 1.08 | 1.09 | 1.04 | 1.09 | 1.07 | 1.07 | 1.05 |
| PI INDEX 2 | 1.10 | 0.94 | 1.30 | 1.38 | 1.20 | 1.34 | 1.34 | 1.22 |
| PI INDEX 3 | 1.18 | 0.83 | 1.05 | 0.95 | 1.17 | 1.31 | 1.06 | 1.27 |
| RISTANE/PHYTANE | 0.95 | 1.35 | 0.50 | 0.30 | 0.64 | 0.68 | 0.84 | 0.77 |
| RISTANE/nC ₁₇ | 0.51 | 0.49 | 0.13 | 0.33 | 0.45 | 0.43 | 0.41 | 0.47 |

$$I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN – NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -190A | -194A | -198A | -202A | -206A | -210A | -214A | -218A |
|---------------------------|---------------|------------|------------|------------|------------|------------|------------|------------|
| DEPTH | 3970-3972m | 3980-3982m | 3990-3992m | 4000-4002m | 4010-4012m | 4020-4022m | 4030-4032m | 4040-4042m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| C ₁₅ | 2.71 | 3.59 | 0.67 | 2.39 | 4.92 | 4.90 | 4.04 | 0.62 |
| C ₁₆ | 10.94 | 10.86 | 7.10 | 10.87 | 9.96 | 12.90 | 12.74 | 4.71 |
| C ₁₇ | 15.17 | 13.50 | 14.32 | 15.77 | 15.65 | 15.65 | 16.39 | 13.14 |
| C ₁₈ | 14.08 | 13.71 | 15.43 | 16.49 | 14.77 | 16.37 | 19.71 | 16.98 |
| C ₁₉ | 13.33 | 13.71 | 15.09 | 14.10 | 14.77 | 12.54 | 13.75 | 15.12 |
| C ₂₀ | 11.59 | 10.97 | 10.77 | 11.59 | 11.82 | 9.92 | 11.22 | 13.38 |
| C ₂₁ | 8.88 | 9.39 | 7.99 | 8.96 | 9.08 | 7.05 | 8.45 | 9.91 |
| C ₂₂ | 6.72 | 7.70 | 7.44 | 6.21 | 6.02 | 5.73 | 5.17 | 7.19 |
| C ₂₃ | 4.98 | 4.96 | 5.66 | 4.78 | 4.60 | 3.82 | 3.53 | 5.20 |
| C ₂₄ | 3.03 | 3.48 | 3.88 | 2.63 | 2.63 | 2.51 | 2.02 | 3.72 |
| C ₂₅ | 2.17 | 1.90 | 2.33 | 1.91 | 1.86 | 1.91 | 1.13 | 2.35 |
| C ₂₆ | 1.52 | 1.27 | 1.89 | 1.08 | 0.98 | 1.19 | 0.76 | 1.49 |
| C ₂₇ | 0.98 | 1.16 | 2.00 | 0.84 | 0.77 | 1.31 | 0.63 | 1.36 |
| C ₂₈ | 1.19 | 0.84 | 1.33 | 0.48 | 0.66 | 0.60 | 0.63 | 0.99 |
| C ₂₉ | 0.87 | 0.84 | 1.11 | 0.72 | 0.55 | 1.31 | 0.63 | 1.49 |
| C ₃₀ | 0.54 | 0.53 | 0.78 | 0.36 | 0.22 | 0.60 | 0.25 | 0.62 |
| C ₃₁ | 0.54 | 0.63 | 1.00 | 0.48 | 0.33 | 0.84 | 0.25 | 0.74 |
| C ₃₂ | 0.33 | 0.42 | 0.44 | 0.24 | 0.22 | 0.36 | 0.25 | 0.37 |
| C ₃₃ | 0.22 | 0.32 | 0.33 | 0.12 | 0.11 | 0.24 | 0.13 | 0.25 |
| C ₃₄ | 0.11 | 0.11 | 0.22 | 0.00 | 0.11 | 0.12 | 0.00 | 0.12 |
| C ₃₅ | 0.11 | 0.11 | 0.22 | 0.00 | 0.00 | 0.12 | 0.13 | 0.25 |
| PARAFFIN | 39.38 | 37.98 | 45.88 | 45.86 | 48.13 | 39.43 | 51.16 | 36.65 |
| ISOPRENOID | 6.10 | 5.57 | 5.30 | 6.14 | 6.69 | 5.61 | 7.10 | 4.22 |
| NAPHTHENE | 54.52 | 56.45 | 48.83 | 48.00 | 45.18 | 54.97 | 41.74 | 59.13 |
| P.I. INDEX 1 | 1.05 | 1.03 | 0.99 | 1.18 | 1.17 | 1.07 | 1.16 | 1.07 |
| P.I. INDEX 2 | 1.00 | 1.11 | 1.13 | 1.35 | 1.23 | 1.53 | 1.06 | 1.29 |
| P.I. INDEX 3 | 0.72 | 1.10 | 1.24 | 1.08 | 0.93 | 1.47 | 0.91 | 1.10 |
| TRISTANE/PHYTANE | 1.07 | 0.85 | 1.00 | 1.07 | 1.12 | 1.05 | 1.12 | 0.79 |
| TRISTANE/nC ₁₇ | 0.53 | 0.50 | 0.40 | 0.44 | 0.47 | 0.47 | 0.45 | 0.39 |

$$P.I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$P.I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$P.I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN – NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -222A | -230A | -234A | -238A | -242A | -246A | -250A | -254A |
|--------------------------|---------------|------------|------------|------------|------------|------------|------------|------------|
| DEPTH | 4050-4052m | 4070-4072m | 4080-4082m | 4090-4092m | 4100-4102m | 4110-4112m | 4120-4122m | 4130-4132m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| C ₁₅ | 4.98 | 0.86 | 1.51 | 0.12 | 0.39 | 1.42 | 0.61 | 0.74 |
| C ₁₆ | 12.58 | 2.09 | 8.93 | 1.39 | 5.13 | 8.84 | 5.10 | 7.65 |
| C ₁₇ | 18.06 | 9.45 | 14.46 | 8.82 | 13.35 | 12.15 | 10.81 | 15.56 |
| C ₁₈ | 15.57 | 14.48 | 17.61 | 13.81 | 17.72 | 14.74 | 14.09 | 16.54 |
| C ₁₉ | 13.57 | 16.20 | 14.47 | 14.27 | 15.40 | 13.56 | 14.82 | 14.81 |
| C ₂₀ | 9.96 | 13.25 | 12.96 | 15.31 | 12.84 | 12.03 | 13.12 | 12.72 |
| C ₂₁ | 7.35 | 11.78 | 8.93 | 11.83 | 10.65 | 9.43 | 9.60 | 8.27 |
| C ₂₂ | 5.35 | 7.85 | 7.30 | 10.09 | 7.96 | 8.14 | 8.51 | 6.91 |
| C ₂₃ | 3.61 | 6.13 | 4.40 | 7.31 | 5.65 | 5.90 | 6.20 | 4.32 |
| C ₂₄ | 2.37 | 4.17 | 2.77 | 4.87 | 3.85 | 3.89 | 5.10 | 3.21 |
| C ₂₅ | 1.74 | 2.70 | 1.64 | 3.25 | 2.18 | 2.71 | 3.40 | 1.73 |
| C ₂₆ | 0.87 | 1.84 | 1.01 | 2.09 | 1.41 | 1.65 | 2.55 | 1.48 |
| C ₂₇ | 0.75 | 2.21 | 0.75 | 1.62 | 1.03 | 1.30 | 1.82 | 0.99 |
| C ₂₈ | 1.25 | 1.10 | 1.38 | 1.39 | 0.64 | 0.83 | 0.97 | 2.22 |
| C ₂₉ | 0.62 | 2.21 | 0.75 | 1.51 | 0.39 | 1.18 | 1.22 | 1.23 |
| C ₃₀ | 0.25 | 0.74 | 0.38 | 0.70 | 0.51 | 0.47 | 0.61 | 0.37 |
| C ₃₁ | 0.37 | 1.10 | 0.25 | 0.70 | 0.39 | 0.83 | 0.61 | 0.49 |
| C ₃₂ | 0.25 | 1.23 | 0.13 | 0.23 | 0.26 | 0.24 | 0.36 | 0.25 |
| C ₃₃ | 0.25 | 0.37 | 0.13 | 0.35 | 0.13 | 0.35 | 0.24 | 0.25 |
| C ₃₄ | 0.12 | 0.12 | 0.13 | 0.23 | 0.13 | 0.24 | 0.12 | 0.12 |
| C ₃₅ | 0.12 | 0.12 | 0.13 | 0.12 | 0.00 | 0.12 | 0.12 | 0.12 |
| PARAFFIN | 46.02 | 23.14 | 43.87 | 40.41 | 42.48 | 32.93 | 32.47 | 44.58 |
| SOPRENOID | 5.50 | 2.30 | 6.13 | 4.64 | 5.83 | 5.48 | 5.36 | 7.54 |
| NAPHTHENE | 48.48 | 74.56 | 50.00 | 54.95 | 51.69 | 61.59 | 62.17 | 47.88 |
| PI INDEX 1 | 1.05 | 1.18 | 0.96 | 1.02 | 1.08 | 1.04 | 0.97 | 0.87 |
| PI INDEX 2 | 1.04 | 1.36 | 0.89 | 1.19 | 1.01 | 1.38 | 1.17 | 0.82 |
| PI INDEX 3 | 0.71 | 1.50 | 0.63 | 0.93 | 1.00 | 1.05 | 1.03 | 0.53 |
| RISTANE/PHYTANE | 1.09 | 0.56 | 1.33 | 0.60 | 0.91 | 1.10 | 0.84 | 0.96 |
| RISTANE/nC ₁₇ | 0.34 | 0.38 | 0.51 | 0.49 | 0.49 | 0.72 | 0.70 | 0.53 |

$$I_1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I_2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I_3 = \frac{2x(C_{27})}{C_{26}+C_{28}}$$

- ditch cuttings CO— core SWC — sidewall core



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN – NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -258A | -262A | -266A | -270A | -274A | -278A | -282A | -286A |
|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| DEPTH | 4140- 4142m | 4150- 4152m | 4160- 4162m | 4170- 4172m | 4180- 4182m | 4190- 4192m | 4200- 4202m | 4210- 4212m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| iC ₁₅ | 1.26 | 0.57 | 0.24 | 0.55 | 0.18 | 1.13 | 0.36 | 2.98 |
| iC ₁₆ | 8.82 | 4.12 | 3.64 | 5.19 | 3.27 | 5.15 | 6.90 | 10.14 |
| iC ₁₇ | 13.86 | 10.65 | 12.22 | 11.26 | 9.20 | 8.37 | 13.21 | 12.57 |
| iC ₁₈ | 14.89 | 15.46 | 16.57 | 14.79 | 11.23 | 10.86 | 16.79 | 14.77 |
| iC ₁₉ | 13.97 | 15.58 | 16.69 | 15.01 | 12.20 | 9.98 | 14.64 | 13.34 |
| iC ₂₀ | 11.80 | 15.58 | 13.98 | 12.36 | 9.90 | 8.69 | 11.90 | 10.80 |
| iC ₂₁ | 9.74 | 11.45 | 11.75 | 9.71 | 10.17 | 7.56 | 9.17 | 7.61 |
| iC ₂₂ | 7.67 | 8.25 | 8.11 | 7.73 | 6.90 | 4.99 | 7.98 | 6.39 |
| iC ₂₃ | 5.04 | 5.96 | 5.05 | 5.63 | 6.01 | 7.24 | 5.60 | 5.51 |
| iC ₂₄ | 3.67 | 3.32 | 3.29 | 3.86 | 4.07 | 3.78 | 3.21 | 3.31 |
| iC ₂₅ | 2.86 | 2.29 | 1.88 | 2.76 | 6.19 | 7.08 | 2.98 | 3.09 |
| iC ₂₆ | 1.37 | 1.37 | 1.53 | 2.32 | 3.27 | 2.57 | 1.31 | 1.65 |
| iC ₂₇ | 1.26 | 1.26 | 1.06 | 1.88 | 6.54 | 7.80 | 2.38 | 2.32 |
| iC ₂₈ | 0.92 | 0.69 | 1.18 | 1.21 | 1.59 | 2.17 | 0.95 | 0.99 |
| iC ₂₉ | 1.03 | 1.37 | 1.65 | 2.32 | 3.89 | 5.71 | 1.19 | 1.76 |
| iC ₃₀ | 0.34 | 0.46 | 0.35 | 0.88 | 1.06 | 1.61 | 0.24 | 0.55 |
| iC ₃₁ | 0.80 | 0.57 | 0.24 | 1.10 | 2.56 | 3.78 | 0.83 | 1.21 |
| iC ₃₂ | 0.23 | 0.46 | 0.24 | 0.77 | 0.44 | 0.72 | 0.12 | 0.44 |
| iC ₃₃ | 0.23 | 0.23 | 0.12 | 0.33 | 1.15 | 0.08 | 0.24 | 0.33 |
| iC ₃₄ | 0.11 | 0.11 | 0.12 | 0.22 | 0.09 | 0.64 | 0.00 | 0.11 |
| iC ₃₅ | 0.11 | 0.23 | 0.12 | 0.11 | 0.09 | 0.08 | 0.00 | 0.11 |
| PARAFFIN | 36.82 | 44.36 | 49.88 | 39.19 | 56.58 | 45.82 | 50.63 | 41.86 |
| ISOPRENOID | 6.07 | 4.22 | 5.22 | 4.15 | 5.50 | 4.31 | 6.93 | 6.05 |
| NAPHTHENE | 57.11 | 51.42 | 44.90 | 56.66 | 37.92 | 49.87 | 42.44 | 52.10 |
| PPI INDEX 1 | 1.08 | 1.14 | 1.07 | 1.04 | 1.51 | 1.84 | 1.16 | 1.17 |
| PPI INDEX 2 | 1.51 | 1.39 | 1.11 | 1.26 | 2.47 | 2.92 | 2.05 | 1.80 |
| PPI INDEX 3 | 1.10 | 1.22 | 0.78 | 1.06 | 2.69 | 3.29 | 2.11 | 1.75 |
| PRISTANE/PHYTANE | 0.95 | 0.77 | 0.82 | 0.78 | 0.77 | 0.98 | 0.92 | 0.98 |
| PRISTANE/nC ₁₇ | 0.58 | 0.39 | 0.38 | 0.41 | 0.46 | 0.56 | 0.50 | 0.57 |

$$P.I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$P.I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$P.I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN – NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -290A | -294A | -298A | -302A | -306A | -310A | -314A | -318B |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| DEPTH | 4220- 4222m | 4230- 4232m | 4240- 4242m | 4250- 4252m | 4260- 4262m | 4270- 4272m | 4280- 4282m | 4290- 4292m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| C ₁₅ | 0.57 | 2.82 | 3.18 | 2.16 | 0.70 | 2.40 | 0.25 | 0.62 |
| C ₁₆ | 6.45 | 11.41 | 11.86 | 9.50 | 5.45 | 9.07 | 0.88 | 1.42 |
| C ₁₇ | 13.01 | 13.67 | 14.30 | 13.82 | 12.06 | 12.46 | 5.41 | 4.17 |
| C ₁₈ | 14.37 | 15.03 | 16.87 | 14.69 | 15.31 | 14.43 | 18.11 | 10.20 |
| C ₁₉ | 14.93 | 12.88 | 13.57 | 13.50 | 13.57 | 12.79 | 12.96 | 10.56 |
| C ₂₀ | 13.35 | 11.19 | 11.61 | 10.48 | 11.14 | 12.02 | 12.70 | 10.74 |
| C ₂₁ | 10.97 | 7.57 | 8.56 | 8.10 | 8.47 | 8.31 | 8.30 | 8.78 |
| C ₂₂ | 8.14 | 5.65 | 6.11 | 6.48 | 9.86 | 6.78 | 9.43 | 6.65 |
| C ₂₃ | 5.66 | 4.29 | 4.89 | 5.94 | 4.87 | 5.14 | 4.78 | 5.86 |
| C ₂₄ | 3.39 | 2.71 | 3.30 | 3.67 | 3.71 | 3.50 | 4.03 | 4.26 |
| C ₂₅ | 2.49 | 1.92 | 1.83 | 2.92 | 2.44 | 2.84 | 3.27 | 5.24 |
| C ₂₆ | 1.58 | 1.02 | 1.10 | 2.16 | 2.09 | 1.75 | 2.52 | 3.82 |
| C ₂₇ | 1.13 | 1.47 | 0.86 | 2.05 | 2.90 | 1.86 | 2.39 | 4.70 |
| C ₂₈ | 1.58 | 6.21 | 0.49 | 1.08 | 0.81 | 1.31 | 1.89 | 3.02 |
| C ₂₉ | 1.13 | 0.79 | 0.73 | 1.30 | 2.44 | 1.42 | 3.65 | 7.28 |
| C ₃₀ | 0.23 | 0.23 | 0.12 | 0.54 | 0.93 | 0.77 | 2.52 | 2.40 |
| C ₃₁ | 0.68 | 0.45 | 0.49 | 0.86 | 1.62 | 1.09 | 2.64 | 6.21 |
| C ₃₂ | 0.11 | 0.45 | 0.12 | 0.32 | 0.70 | 0.98 | 1.64 | 1.24 |
| C ₃₃ | 0.11 | 0.11 | 0.00 | 0.22 | 0.58 | 0.44 | 1.26 | 1.95 |
| C ₃₄ | 0.00 | 0.00 | 0.00 | 0.22 | 0.23 | 0.33 | 0.75 | 0.62 |
| C ₃₅ | 0.11 | 0.11 | 0.00 | 0.00 | 0.12 | 0.33 | 0.63 | 0.27 |
| PARAFFIN | 42.08 | 41.75 | 44.97 | 36.79 | 24.34 | 21.50 | 28.68 | 25.04 |
| SOPRENOID | 6.90 | 6.32 | 6.60 | 4.97 | 3.25 | 2.80 | 1.77 | 1.13 |
| NAPHTHENE | 51.02 | 51.93 | 48.43 | 58.24 | 72.41 | 75.70 | 69.55 | 73.83 |
| PI INDEX 1 | 1.07 | 0.86 | 1.10 | 1.13 | 0.92 | 1.06 | 0.85 | 1.18 |
| PI INDEX 2 | 1.17 | 0.52 | 1.46 | 1.35 | 1.66 | 1.24 | 1.24 | 1.99 |
| PI INDEX 3 | 0.71 | 0.41 | 1.08 | 1.27 | 2.00 | 1.21 | 1.09 | 1.38 |
| RISTANE/PHYTANE | 0.93 | 1.09 | 1.26 | 1.05 | 0.83 | 1.02 | 0.32 | 0.38 |
| RISTANE/nC ₁₇ | 0.61 | 0.58 | 0.57 | 0.50 | 0.50 | 0.53 | 0.28 | 0.30 |

$$I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I. 3 = \frac{2x (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅+ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -322A | -345A | -346A | -349A | -351A | -353A | -344A | -357A |
|---------------------------|---------------|------------|------------|------------|------------|------------|-----------|------------|
| DEPTH | 4300-4302m | 4695-4697m | 4700-4702m | 4725-4727m | 4745-4747m | 4762-4765m | 4770m SWC | 4787-4790m |
| SAMPLE TYPE | WELL 7120/9-2 | | | | | | | |
| C ₁₅ | 0.23 | 0.82 | 5.00 | 1.89 | 8.75 | 10.68 | 1.10 | 16.01 |
| C ₁₆ | 3.22 | 11.93 | 14.55 | 10.38 | 20.52 | 20.67 | 2.19 | 22.61 |
| C ₁₇ | 10.93 | 15.79 | 15.57 | 16.04 | 20.80 | 19.42 | 5.94 | 17.74 |
| C ₁₈ | 10.13 | 16.37 | 13.64 | 19.00 | 15.93 | 14.84 | 9.60 | 12.56 |
| C ₁₉ | 14.27 | 9.47 | 9.66 | 12.53 | 8.61 | 8.04 | 11.52 | 7.69 |
| C ₂₀ | 15.42 | 7.37 | 6.59 | 9.97 | 5.45 | 5.69 | 11.24 | 4.71 |
| C ₂₁ | 11.16 | 5.73 | 5.00 | 7.01 | 5.31 | 3.74 | 9.14 | 3.45 |
| C ₂₂ | 9.90 | 5.50 | 5.34 | 5.80 | 3.30 | 2.77 | 7.77 | 2.67 |
| C ₂₃ | 8.17 | 5.96 | 4.32 | 4.72 | 1.87 | 2.22 | 5.30 | 2.20 |
| C ₂₄ | 5.75 | 3.74 | 3.64 | 2.96 | 1.58 | 1.66 | 4.94 | 1.73 |
| C ₂₅ | 3.57 | 3.27 | 3.41 | 1.75 | 1.58 | 1.66 | 3.84 | 1.41 |
| C ₂₆ | 2.30 | 2.81 | 2.39 | 1.35 | 1.29 | 0.97 | 3.29 | 0.94 |
| C ₂₇ | 1.61 | 2.69 | 3.07 | 1.21 | 0.72 | 0.97 | 4.30 | 1.10 |
| C ₂₈ | 0.92 | 1.64 | 1.36 | 0.94 | 1.72 | 0.97 | 2.38 | 0.63 |
| C ₂₉ | 1.04 | 2.46 | 2.05 | 1.48 | 0.43 | 1.94 | 6.12 | 1.41 |
| C ₃₀ | 0.35 | 0.82 | 1.14 | 0.54 | 0.86 | 0.69 | 2.29 | 0.63 |
| C ₃₁ | 0.58 | 1.40 | 1.70 | 1.35 | 0.72 | 1.66 | 4.84 | 0.94 |
| C ₃₂ | 0.12 | 0.82 | 0.57 | 0.40 | 0.14 | 0.42 | 1.46 | 0.78 |
| C ₃₃ | 0.12 | 0.58 | 0.57 | 0.40 | 0.14 | 0.55 | 1.55 | 0.31 |
| C ₃₄ | 0.12 | 0.47 | 0.34 | 0.13 | 0.00 | 0.14 | 0.55 | 0.16 |
| C ₃₅ | 0.12 | 0.35 | 0.11 | 0.13 | 0.29 | 0.28 | 0.64 | 0.31 |
| PARAFFIN | 46.60 | 37.24 | 30.19 | 37.65 | 46.72 | 52.32 | 22.95 | 37.19 |
| ISOPRENOID | 7.29 | 4.22 | 3.53 | 4.52 | 6.03 | 6.53 | 1.38 | 4.61 |
| NAPHTHENE | 46.11 | 58.54 | 66.28 | 57.84 | 47.25 | 41.15 | 75.67 | 58.20 |
| PI INDEX 1 | 1.02 | 1.10 | 1.06 | 1.03 | 1.01 | 1.06 | 1.03 | 1.09 |
| PI INDEX 2 | 1.29 | 1.35 | 1.54 | 1.40 | 0.74 | 1.75 | 1.76 | 1.44 |
| PI INDEX 3 | 1.00 | 1.21 | 1.64 | 1.06 | 0.48 | 1.00 | 1.52 | 1.40 |
| TRISTANE/PHYTANE | 0.89 | 1.06 | 1.24 | 1.02 | 1.31 | 1.50 | 0.50 | 1.47 |
| TRISTANE/nC ₁₇ | 0.67 | 0.37 | 0.42 | 0.38 | 0.35 | 0.39 | 0.34 | 0.42 |

$$I. 1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I. 2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I. 3 = \frac{2 \times (C_{27})}{C_{26}+C_{28}}$$



TABLE 6
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

| GEOCHEM SAMPLE NUMBER | -327B | -343A | -331A | -359A |
|--------------------------|----------------|----------------|----------------|----------------|
| DEPTH | 4800~ 4802m | 4808.1m SWC | 4810~ 4812m | 4817~ 4820m |
| SAMPLE TYPE | WELL 7120/9-2 | | | |
| C ₁₅ | 0.29 | 0.13 | 1.21 | 10.91 |
| C ₁₆ | 1.61 | 3.27 | 13.71 | 19.00 |
| C ₁₇ | 3.66 | 13.44 | 19.22 | 17.72 |
| C ₁₈ | 18.16 | 17.84 | 14.38 | 13.86 |
| C ₁₉ | 19.18 | 13.82 | 9.41 | 9.76 |
| C ₂₀ | 14.64 | 11.93 | 5.65 | 6.03 |
| C ₂₁ | 10.25 | 9.42 | 4.70 | 3.98 |
| C ₂₂ | 7.32 | 5.90 | 4.17 | 3.34 |
| C ₂₃ | 4.83 | 4.52 | 2.82 | 2.57 |
| C ₂₄ | 3.22 | 2.89 | 2.28 | 1.28 |
| C ₂₅ | 7.91 | 2.51 | 2.42 | 1.93 |
| C ₂₆ | 1.61 | 1.88 | 1.48 | 1.03 |
| C ₂₇ | 2.78 | 2.51 | 2.69 | 2.44 |
| C ₂₈ | 1.76 | 2.26 | 2.15 | 1.03 |
| C ₂₉ | 0.59 | 2.64 | 4.03 | 2.57 |
| C ₃₀ | 0.88 | 0.75 | 1.48 | 0.39 |
| C ₃₁ | 0.29 | 2.51 | 2.42 | 1.03 |
| C ₃₂ | 0.29 | 0.63 | 1.88 | 0.51 |
| C ₃₃ | 0.44 | 0.50 | 1.48 | 0.26 |
| C ₃₄ | 0.15 | 0.38 | 1.34 | 0.26 |
| C ₃₅ | 0.15 | 0.25 | 1.08 | 0.13 |
| PARAFFIN | 24.64 | 36.41 | 18.70 | 55.96 |
| SOPRENOID | 4.47 | 4.35 | 2.31 | 5.24 |
| NAPHTHENE | 70.89 | 59.24 | 78.99 | 38.79 |
| PI INDEX 1 | 1.41 | 1.15 | 1.09 | 1.28 |
| PI INDEX 2 | 2.05 | 1.57 | 1.61 | 2.42 |
| PI INDEX 3 | 1.65 | 1.21 | 1.48 | 2.38 |
| RISTANE/PHYTANE | 1.07 | 1.02 | 1.19 | 1.61 |
| RISTANE/nC ₁₇ | 2.56 | 0.45 | 0.35 | 0.33 |

$$I_1 = \frac{1}{2} \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}}$$

$$I_2 = \frac{1}{2} \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}}$$

$$I_3 = \frac{2x(C_{27})}{C_{26}+C_{28}}$$