

Well: **Shell Unipkat N-12** UWI: 300N126920135150

RockEval/TOC report, Organic Geochemistry Laboratory, Geological Survey of Canada - Calgary

Database Reference: Rock-Eval Data for Canadian Borehole Cuttings, Core and Outcrop Samples

Geoscience Data Repository, Earth Sciences Sector, Natural Resources Canada

For data reference, general terms and conditions see - http://gdr.nrcan.gc.ca/terms_e.php

Geoscience Data Repository are copyright of Her Majesty the Queen in Right of Canada, 2010

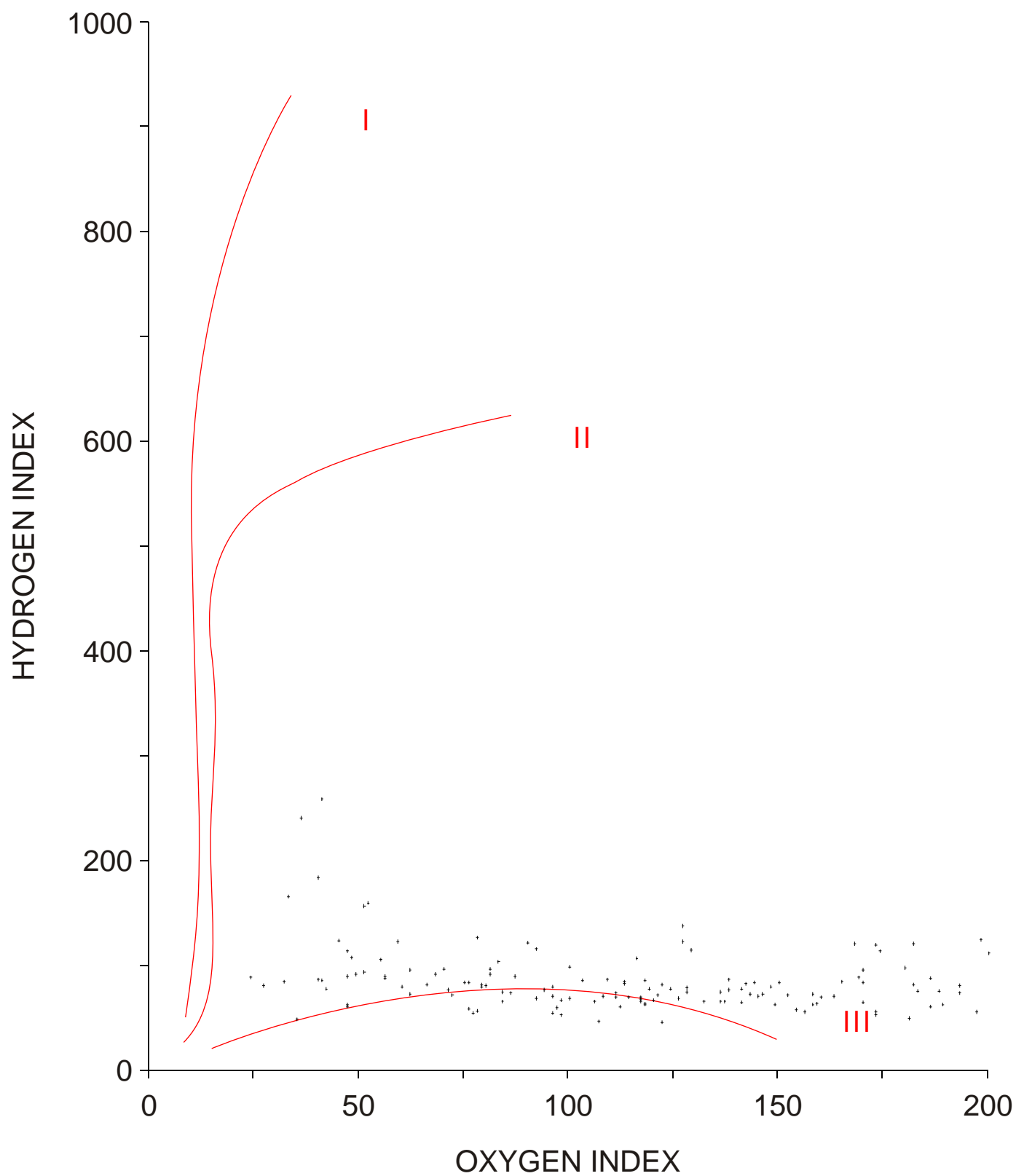
| Depth (m) | TOC | PI | S1+S2 | TMAX | S1 | S2 | S3 | HI | OI |
|-----------|-------|------|-------|------|-------|-------|-------|-----|-----|
| 30 | 15.17 | 0.35 | 31.56 | 411 | 10.96 | 20.60 | 31.60 | 135 | 208 |
| 40 | 12.62 | 0.30 | 21.24 | 402 | 6.36 | 14.88 | 21.92 | 117 | 173 |
| 50 | 3.66 | 0.15 | 3.45 | 429 | 0.51 | 2.94 | 4.16 | 80 | 113 |
| 60 | 2.34 | 0.11 | 1.52 | 432 | 0.16 | 1.36 | 2.63 | 58 | 112 |
| 70 | 1.84 | 0.11 | 1.03 | 434 | 0.11 | 0.92 | 1.82 | 50 | 98 |
| 80 | 1.61 | 0.13 | 0.98 | 428 | 0.13 | 0.85 | 1.56 | 52 | 96 |
| 90 | 2.66 | 0.15 | 2.10 | 429 | 0.32 | 1.78 | 2.45 | 66 | 92 |
| 100 | 1.95 | 0.13 | 1.27 | 424 | 0.16 | 1.11 | 1.49 | 56 | 76 |
| 110 | 1.11 | 0.09 | 0.64 | 424 | 0.06 | 0.58 | 0.86 | 52 | 77 |
| 120 | 1.22 | 0.24 | 0.87 | 424 | 0.21 | 0.66 | 0.96 | 54 | 78 |
| 130 | 1.41 | 0.09 | 0.91 | 427 | 0.08 | 0.83 | 0.67 | 58 | 47 |
| 140 | 1.43 | 0.07 | 0.92 | 427 | 0.06 | 0.86 | 0.68 | 60 | 47 |
| 150 | 1.75 | 0.11 | 1.66 | 435 | 0.19 | 1.47 | 0.71 | 84 | 40 |
| 160 | 1.53 | 0.08 | 1.44 | 435 | 0.11 | 1.33 | 0.38 | 86 | 24 |
| 170 | 1.83 | 0.12 | 1.73 | 432 | 0.20 | 1.53 | 0.76 | 83 | 41 |
| 180 | 1.97 | 0.10 | 1.92 | 433 | 0.20 | 1.72 | 0.94 | 87 | 47 |
| 190 | 1.53 | 0.12 | 1.30 | 433 | 0.15 | 1.15 | 0.65 | 75 | 42 |
| 200 | 0.93 | 0.52 | 1.33 | 416 | 0.69 | 0.64 | 2.75 | 68 | 295 |
| 210 | 1.60 | 0.08 | 1.37 | 431 | 0.11 | 1.26 | 0.44 | 78 | 27 |
| 220 | 1.55 | 0.29 | 3.42 | 416 | 1.00 | 2.42 | 4.11 | 156 | 265 |
| 230 | 1.47 | 0.20 | 1.28 | 433 | 0.26 | 1.02 | 1.78 | 69 | 121 |
| 240 | 1.74 | 0.18 | 1.37 | 429 | 0.25 | 1.12 | 1.72 | 64 | 98 |
| 250 | 1.67 | 0.15 | 1.13 | 428 | 0.17 | 0.96 | 1.62 | 57 | 97 |
| 260 | 1.72 | 0.24 | 1.37 | 425 | 0.33 | 1.04 | 2.73 | 60 | 158 |
| 270 | 0.93 | 0.42 | 0.85 | 417 | 0.36 | 0.49 | 2.08 | 52 | 223 |
| 280 | 1.61 | 0.10 | 1.48 | 432 | 0.15 | 1.33 | 0.53 | 82 | 32 |
| 290 | 0.80 | 0.41 | 0.61 | 412 | 0.25 | 0.36 | 2.16 | 45 | 270 |
| 300 | 1.67 | 0.67 | 5.04 | 420 | 3.38 | 1.66 | 3.60 | 99 | 215 |
| 310 | 1.72 | 0.69 | 4.50 | 382 | 3.09 | 1.41 | 2.59 | 81 | 150 |
| 320 | 0.92 | 0.65 | 1.96 | 418 | 1.28 | 0.68 | 3.11 | 73 | 338 |
| 330 | 2.65 | 0.06 | 1.31 | 413 | 0.08 | 1.23 | 0.94 | 46 | 35 |
| 340 | 1.28 | 0.58 | 2.74 | 411 | 1.59 | 1.15 | 4.23 | 89 | 330 |
| 350 | 1.13 | 0.47 | 1.35 | 390 | 0.64 | 0.71 | 3.60 | 62 | 318 |
| 360 | 2.14 | 0.36 | 3.95 | 424 | 1.41 | 2.54 | 3.60 | 118 | 168 |
| 370 | 6.83 | 0.26 | 9.76 | 422 | 2.54 | 7.22 | 3.32 | 105 | 48 |
| 380 | 1.90 | 0.33 | 1.79 | 428 | 0.59 | 1.20 | 2.51 | 63 | 132 |
| 390 | 2.53 | 0.26 | 2.72 | 424 | 0.71 | 2.01 | 3.11 | 79 | 122 |
| 400 | 1.38 | 0.25 | 0.80 | 439 | 0.20 | 0.60 | 1.69 | 43 | 122 |
| 410 | 9.32 | 0.14 | 13.11 | 412 | 1.77 | 11.34 | 4.23 | 121 | 45 |
| 420 | 5.52 | 0.26 | 7.02 | 421 | 1.85 | 5.17 | 3.44 | 93 | 62 |
| 430 | 1.95 | 0.46 | 2.92 | 421 | 1.34 | 1.58 | 3.32 | 81 | 170 |

| Depth (m) | TOC | PI | S1+S2 | TMAX | S1 | S2 | S3 | HI | OI |
|-----------|-------|------|-------|------|-------|-------|------|-----|-----|
| 440 | 7.61 | 0.19 | 9.69 | 422 | 1.85 | 7.84 | 4.23 | 103 | 55 |
| 450 | 2.83 | 0.31 | 3.48 | 424 | 1.09 | 2.39 | 3.91 | 84 | 138 |
| 460 | 2.47 | 0.27 | 2.47 | 428 | 0.67 | 1.80 | 3.36 | 72 | 136 |
| 470 | 1.52 | 0.18 | 0.93 | 429 | 0.17 | 0.76 | 3.84 | 50 | 252 |
| 480 | 2.17 | 0.23 | 2.02 | 427 | 0.47 | 1.55 | 4.19 | 71 | 193 |
| 490 | 2.30 | 0.22 | 1.57 | 422 | 0.34 | 1.23 | 3.99 | 53 | 173 |
| 500 | 2.40 | 0.31 | 2.32 | 426 | 0.73 | 1.59 | 3.04 | 66 | 126 |
| 510 | 2.19 | 0.48 | 3.38 | 425 | 1.62 | 1.76 | 3.12 | 80 | 142 |
| 520 | 3.40 | 0.36 | 4.38 | 421 | 1.57 | 2.81 | 3.87 | 82 | 113 |
| 530 | 6.06 | 0.14 | 5.62 | 424 | 0.81 | 4.81 | 4.04 | 79 | 66 |
| 540 | 2.19 | 0.21 | 1.96 | 425 | 0.42 | 1.54 | 3.15 | 70 | 143 |
| 550 | 1.66 | 0.32 | 1.77 | 425 | 0.56 | 1.21 | 2.14 | 72 | 128 |
| 560 | 1.31 | 0.23 | 1.07 | 429 | 0.25 | 0.82 | 1.86 | 62 | 141 |
| 570 | 1.44 | 0.22 | 1.15 | 424 | 0.25 | 0.90 | 2.46 | 62 | 170 |
| 580 | 1.24 | 0.24 | 1.04 | 425 | 0.25 | 0.79 | 3.03 | 63 | 244 |
| 590 | 1.21 | 0.43 | 1.49 | 424 | 0.64 | 0.85 | 2.47 | 70 | 204 |
| 600 | 1.76 | 0.41 | 2.34 | 421 | 0.97 | 1.37 | 2.61 | 77 | 148 |
| 610 | 3.98 | 0.28 | 6.61 | 425 | 1.86 | 4.75 | 3.60 | 119 | 90 |
| 620 | 4.36 | 0.28 | 6.90 | 419 | 1.94 | 4.96 | 4.04 | 113 | 92 |
| 630 | 12.40 | 0.22 | 24.93 | 411 | 5.38 | 19.55 | 6.48 | 157 | 52 |
| 640 | 5.90 | 0.43 | 12.34 | 415 | 5.25 | 7.09 | 3.52 | 120 | 59 |
| 650 | 3.34 | 0.63 | 10.17 | 409 | 6.41 | 3.76 | 4.32 | 112 | 129 |
| 660 | 2.66 | 0.60 | 7.44 | 415 | 4.47 | 2.97 | 4.63 | 111 | 174 |
| 670 | 2.41 | 0.62 | 7.42 | 417 | 4.57 | 2.85 | 4.39 | 118 | 182 |
| 680 | 1.99 | 0.57 | 5.71 | 417 | 3.28 | 2.43 | 3.96 | 122 | 198 |
| 690 | 3.77 | 0.52 | 9.52 | 409 | 4.97 | 4.55 | 4.80 | 120 | 127 |
| 700 | 5.31 | 0.65 | 18.87 | 414 | 12.27 | 6.60 | 4.16 | 124 | 78 |
| 710 | 4.14 | 0.74 | 14.37 | 412 | 10.68 | 3.69 | 2.03 | 89 | 49 |
| 720 | 1.72 | 0.73 | 4.40 | 419 | 3.20 | 1.20 | 1.25 | 69 | 72 |
| 730 | 2.49 | 0.63 | 6.01 | 420 | 3.77 | 2.24 | 1.70 | 89 | 68 |
| 740 | 1.95 | 0.68 | 4.77 | 420 | 3.26 | 1.51 | 1.89 | 77 | 96 |
| 750 | 12.06 | 0.25 | 29.09 | 406 | 7.18 | 21.91 | 4.84 | 181 | 40 |
| 760 | 13.38 | 0.16 | 38.20 | 402 | 6.26 | 31.94 | 4.95 | 238 | 36 |
| 770 | 12.35 | 0.17 | 38.10 | 407 | 6.41 | 31.69 | 5.12 | 256 | 41 |
| 780 | 2.31 | 0.58 | 7.47 | 418 | 4.35 | 3.12 | 2.95 | 135 | 127 |
| 790 | 0.89 | 0.55 | 1.55 | 413 | 0.85 | 0.70 | 1.72 | 78 | 193 |
| 800 | 0.84 | 0.48 | 1.20 | 424 | 0.58 | 0.62 | 1.58 | 73 | 188 |
| 810 | 1.40 | 0.52 | 2.63 | 400 | 1.37 | 1.26 | 3.08 | 90 | 220 |
| 820 | 2.60 | 0.52 | 5.02 | 327 | 2.59 | 2.43 | 4.43 | 93 | 170 |
| 830 | 1.89 | 0.57 | 4.78 | 367 | 2.71 | 2.07 | 3.79 | 109 | 200 |
| 840 | 1.59 | 0.71 | 3.71 | 386 | 2.64 | 1.07 | 3.48 | 67 | 218 |
| 850 | 2.01 | 0.71 | 5.67 | 418 | 4.03 | 1.64 | 2.90 | 81 | 144 |
| 860 | 14.17 | 0.16 | 26.04 | 430 | 4.18 | 21.86 | 7.35 | 154 | 51 |
| 870 | 3.12 | 0.49 | 5.77 | 427 | 2.83 | 2.94 | 2.55 | 94 | 81 |
| 880 | 1.57 | 0.59 | 3.36 | 419 | 1.98 | 1.38 | 1.37 | 87 | 87 |
| 890 | 0.94 | 0.63 | 1.15 | 418 | 0.73 | 0.42 | 1.01 | 44 | 107 |
| 900 | 2.56 | 0.38 | 3.59 | 417 | 1.36 | 2.23 | 1.44 | 87 | 56 |
| 910 | 2.50 | 0.29 | 2.57 | 426 | 0.75 | 1.82 | 2.12 | 72 | 84 |

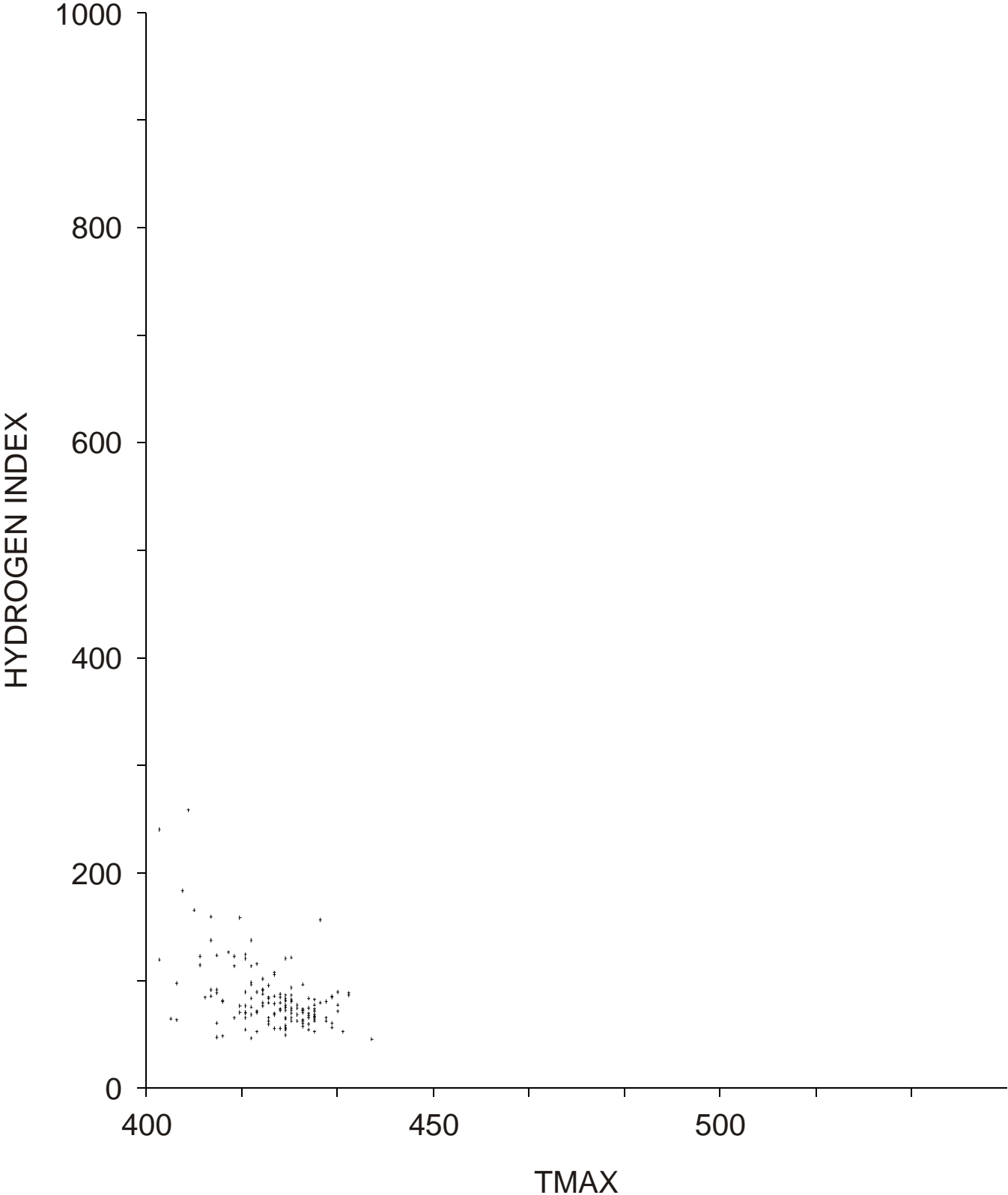
| Depth (m) | TOC | PI | S1+S2 | TMAX | S1 | S2 | S3 | HI | OI |
|-----------|-------|------|-------|------|------|-------|------|-----|-----|
| 920 | 2.37 | 0.59 | 4.79 | 422 | 2.81 | 1.98 | 2.46 | 83 | 103 |
| 930 | 7.68 | 0.15 | 10.06 | 418 | 1.51 | 8.55 | 3.64 | 111 | 47 |
| 940 | 10.98 | 0.23 | 23.43 | 408 | 5.49 | 17.94 | 3.63 | 163 | 33 |
| 950 | 4.06 | 0.61 | 9.77 | 418 | 5.92 | 3.85 | 2.85 | 94 | 70 |
| 960 | 4.57 | 0.58 | 8.11 | 420 | 4.71 | 3.40 | 3.28 | 74 | 71 |
| 970 | 3.14 | 0.52 | 5.07 | 425 | 2.62 | 2.45 | 2.52 | 78 | 80 |
| 980 | 1.43 | 0.65 | 2.82 | 427 | 1.84 | 0.98 | 1.55 | 68 | 108 |
| 990 | 2.81 | 0.65 | 7.14 | 420 | 4.63 | 2.51 | 2.29 | 89 | 81 |
| 1000 | 1.94 | 0.71 | 4.93 | 416 | 3.49 | 1.44 | 1.84 | 74 | 94 |
| 1010 | 1.73 | 0.74 | 4.15 | 415 | 3.06 | 1.09 | 2.04 | 63 | 117 |
| 1020 | 1.84 | 0.64 | 4.21 | 423 | 2.70 | 1.51 | 3.04 | 82 | 165 |
| 1030 | 2.35 | 0.47 | 3.14 | 423 | 1.47 | 1.67 | 2.62 | 71 | 111 |
| 1040 | 1.89 | 0.69 | 4.18 | 417 | 2.88 | 1.30 | 1.82 | 68 | 96 |
| 1050 | 2.51 | 0.59 | 5.22 | 425 | 3.09 | 2.13 | 2.74 | 84 | 109 |
| 1060 | 3.36 | 0.31 | 3.76 | 430 | 1.16 | 2.60 | 2.02 | 77 | 60 |
| 1070 | 2.61 | 0.57 | 4.65 | 424 | 2.67 | 1.98 | 3.24 | 75 | 124 |
| 1080 | 2.54 | 0.63 | 4.31 | 424 | 2.70 | 1.61 | 2.70 | 63 | 106 |
| 1090 | 1.57 | 0.72 | 4.22 | 422 | 3.02 | 1.20 | 2.02 | 76 | 128 |
| 1100 | 1.23 | 0.74 | 2.86 | 426 | 2.12 | 0.74 | 2.33 | 60 | 189 |
| 1110 | 1.61 | 0.68 | 3.31 | 418 | 2.24 | 1.07 | 3.71 | 66 | 230 |
| 1120 | 1.36 | 0.58 | 3.06 | 405 | 1.76 | 1.30 | 2.46 | 95 | 180 |
| 1130 | 1.44 | 0.57 | 1.59 | 424 | 0.90 | 0.69 | 2.62 | 47 | 181 |
| 1140 | 1.93 | 0.63 | 3.26 | 421 | 2.04 | 1.22 | 2.63 | 63 | 136 |
| 1150 | 1.57 | 0.62 | 2.38 | 421 | 1.47 | 0.91 | 4.01 | 57 | 255 |
| 1160 | 1.81 | 0.66 | 4.58 | 420 | 3.03 | 1.55 | 3.38 | 85 | 186 |
| 1170 | 4.05 | 0.49 | 6.80 | 423 | 3.35 | 3.45 | 2.30 | 85 | 56 |
| 1180 | 2.06 | 0.64 | 3.95 | 419 | 2.53 | 1.42 | 2.99 | 68 | 145 |
| 1190 | 2.71 | 0.46 | 3.57 | 423 | 1.65 | 1.92 | 1.69 | 70 | 62 |
| 1200 | 1.32 | 0.71 | 2.88 | 417 | 2.04 | 0.84 | 1.82 | 63 | 137 |
| 1210 | 1.13 | 0.74 | 2.92 | 422 | 2.16 | 0.76 | 1.81 | 67 | 160 |
| 1220 | 0.87 | 0.77 | 2.36 | 404 | 1.82 | 0.54 | 2.21 | 62 | 254 |
| 1230 | 1.20 | 0.72 | 2.49 | 412 | 1.79 | 0.70 | 2.24 | 58 | 186 |
| 1240 | 1.30 | 0.63 | 2.54 | 424 | 1.59 | 0.95 | 2.39 | 73 | 183 |
| 1250 | 4.68 | 0.32 | 6.30 | 425 | 2.02 | 4.28 | 2.41 | 91 | 51 |
| 1260 | 2.00 | 0.53 | 3.00 | 427 | 1.60 | 1.40 | 3.16 | 70 | 158 |
| 1270 | 1.18 | 0.50 | 1.29 | 432 | 0.65 | 0.64 | 2.83 | 54 | 239 |
| 1280 | 1.34 | 0.45 | 1.22 | 419 | 0.55 | 0.67 | 2.32 | 50 | 173 |
| 1290 | 4.25 | 0.25 | 4.39 | 423 | 1.09 | 3.30 | 3.37 | 77 | 79 |
| 1300 | 2.77 | 0.20 | 2.13 | 427 | 0.42 | 1.71 | 3.28 | 61 | 118 |
| 1310 | 3.51 | 0.18 | 3.04 | 429 | 0.54 | 2.50 | 3.02 | 71 | 86 |
| 1320 | 2.90 | 0.26 | 2.54 | 429 | 0.66 | 1.88 | 3.50 | 64 | 120 |
| 1330 | 1.56 | 0.49 | 1.83 | 429 | 0.89 | 0.94 | 2.33 | 60 | 149 |
| 1340 | 1.41 | 0.55 | 1.88 | 421 | 1.03 | 0.85 | 3.22 | 60 | 228 |
| 1350 | 1.65 | 0.56 | 2.51 | 417 | 1.40 | 1.11 | 1.94 | 67 | 117 |
| 1360 | 1.34 | 0.70 | 3.56 | 413 | 2.50 | 1.06 | 2.44 | 79 | 182 |
| 1370 | 1.10 | 0.76 | 4.72 | 381 | 3.57 | 1.15 | 1.28 | 104 | 116 |
| 1380 | 1.28 | 0.74 | 5.07 | 396 | 3.77 | 1.30 | 1.07 | 101 | 83 |
| 1390 | 1.03 | 0.71 | 2.95 | 410 | 2.10 | 0.85 | 2.29 | 82 | 222 |

| Depth (m) | TOC | PI | S1+S2 | TMAX | S1 | S2 | S3 | HI | OI |
|-----------|------|------|-------|------|------|------|------|----|-----|
| 1400 | 1.29 | 0.64 | 3.15 | 412 | 2.03 | 1.12 | 2.19 | 86 | 169 |
| 1410 | 1.11 | 0.68 | 2.88 | 411 | 1.95 | 0.93 | 1.32 | 83 | 118 |
| 1420 | 1.04 | 0.54 | 1.22 | 423 | 0.66 | 0.56 | 1.63 | 53 | 156 |
| 1430 | 1.27 | 0.49 | 1.83 | 417 | 0.89 | 0.94 | 1.76 | 74 | 138 |
| 1440 | 1.08 | 0.64 | 1.81 | 405 | 1.15 | 0.66 | 1.72 | 61 | 159 |
| 1450 | 1.13 | 0.57 | 1.41 | 424 | 0.81 | 0.60 | 2.23 | 53 | 197 |
| 1460 | 1.19 | 0.50 | 1.61 | 417 | 0.80 | 0.81 | 1.94 | 68 | 163 |
| 1470 | 1.83 | 0.42 | 2.13 | 425 | 0.89 | 1.24 | 2.10 | 67 | 114 |
| 1480 | 2.00 | 0.29 | 1.80 | 431 | 0.53 | 1.27 | 1.68 | 63 | 84 |
| 1500 | 1.96 | 0.36 | 2.16 | 427 | 0.77 | 1.39 | 2.88 | 70 | 146 |
| 1510 | 1.55 | 0.32 | 1.39 | 431 | 0.45 | 0.94 | 1.84 | 60 | 118 |
| 1520 | 1.49 | 0.34 | 1.25 | 427 | 0.42 | 0.83 | 2.30 | 55 | 154 |
| 1530 | 1.47 | 0.37 | 1.77 | 426 | 0.66 | 1.11 | 2.08 | 75 | 141 |
| 1540 | 1.79 | 0.30 | 1.72 | 428 | 0.52 | 1.20 | 2.00 | 67 | 111 |
| 1550 | 2.27 | 0.30 | 2.45 | 429 | 0.73 | 1.72 | 2.72 | 75 | 119 |
| 1560 | 1.74 | 0.34 | 1.82 | 429 | 0.61 | 1.21 | 2.65 | 69 | 152 |
| 1570 | 1.33 | 0.30 | 1.25 | 428 | 0.38 | 0.87 | 1.56 | 65 | 117 |
| 1580 | 2.09 | 0.23 | 2.16 | 425 | 0.49 | 1.67 | 1.67 | 79 | 79 |
| 1590 | 1.77 | 0.31 | 2.11 | 428 | 0.66 | 1.45 | 1.33 | 81 | 75 |
| 1600 | 1.95 | 0.27 | 2.15 | 424 | 0.57 | 1.58 | 1.49 | 81 | 76 |
| 1610 | 1.43 | 0.36 | 1.49 | 422 | 0.54 | 0.95 | 1.43 | 66 | 100 |
| 1620 | 1.81 | 0.38 | 2.83 | 418 | 1.08 | 1.75 | 1.81 | 96 | 100 |

Shell Unipkat N-12



Shell Unipkat N-12



Shell Unipkat N-12

