

DEPT. NAT. RES. & ENV.



PE808206

BARRACOUTA # 1 WELL
GEOCHEM FOLDER

Contains Rock-grad &
TOC data.

W486

ANALYSES OF SAMPLES

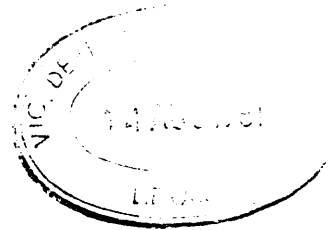
FROM GIPPSLAND BASIN WELLS

MORWONG #1, GROPER #2, BARRACOUTA #1

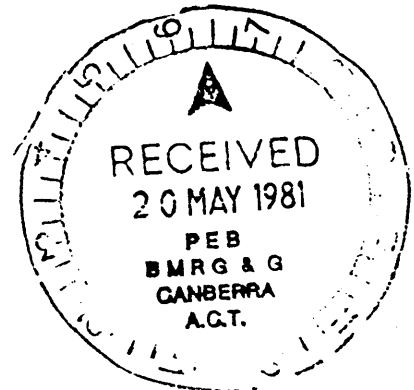
MARLIN A-24, COBIA #1, MARLIN #1,

MARLIN #4 FOR SOLUBLE HYDROCARBONS

AND TOTAL ORGANIC CARBON



*In Gippeland Basin
Reports under
Houston Oil & Minerals
Charts in report*



BUREAU OF MINERAL RESOURCES

**CORE AND CUTTINGS
LABORATORY**

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HOUSTON OIL & MINERALS AUSTRALIA, INC.
EXPLORATION DIVISION

H.O.M.

GIPPSLAND AUSTRALIA WELLS

WELL: BARRACOUTA #1

LOCATION: AUSTRALIA

DEPTH: 2026' TO: 8679'

| | DEPTH | SOLUBLE HYDROCARBONS | TOTAL ORGANIC CARBON |
|-------|-------------------|-------------------------|-------------------------|
| re) | 2026' | 0 ppm | 0.29 % |
| | 3342 | 0 " | 0.17 " |
| | 3511 | 1680 " | 6.68 " |
| ings) | 3930 - 4000 | 3450 " | 13.36 " |
| | 4250 - 4310 | 1240 " | 13.36 " |
| | 4751 - | 4000+ " | 6.96 " |
| | 5200 - 5250 | 840 " | 6.72 " |
| | 5659 | 2720 " | 1.00 " |
| | 6125 | 2300 " | 2.66 " |
| | 6450.5 - 6451.5 | 1040 " | 1.44 " |
| | 6748 | 420 " | 0.88 " |
| | 7230 - 7240 | 520 " | 2.82 " |
| | 7708.5 | 1080 " | 1.77 " |
| | 8090 - 8190 | 1800 " | 6.74 " |
| | 8678'8" - 8679'1" | 720 " | 1.04 " |

RSU9

Geochem

W486

BARRACOUTA 1
BRC-1

26 JUN 1987 *Gippsland*

Gippsland Basin

38 16 s. lat.

147 42 e

Basin

| # | M | FI | XI-C | XO-C | XN | XH | S1 | S2 | TMAX | | | |
|----|------|------|------|-------|------|------|-------|-------|------|------|-----|-------|
| 1 | 244 | 800 | bd1 | 11.10 | bd1 | 0.07 | 0.10 | bd1 | ndm | | | |
| 2 | 415 | 1360 | 76.8 | bd1 | bd1 | 0.19 | 0.09 | 0.3 | 462 | 0.22 | ... | ... |
| 3 | 549 | 1800 | 58.9 | 0.13 | bd1 | 0.32 | 0.35 | bd1 | ndm | | | 0.4 |
| 4 | 665 | 2180 | 55.9 | 0.19 | bd1 | 0.33 | 0.09 | bd1 | ndm | | | 0.5 |
| 5 | 793 | 2600 | 88.6 | bd1 | bd1 | 0.11 | bd1 | bd1 | ndm | | | 0.2 |
| 6 | 945 | 3100 | 68.4 | bd1 | bd1 | 0.20 | 0.06 | bd1 | ndm | | | --- |
| 7 | 1027 | 3370 | 32.6 | 0.45 | bd1 | 0.44 | 0.12 | 0.4 | 465 | 0.22 | 92 | 0.1 |
| 8 | 1071 | 3513 | bd1 | 65.59 | 0.39 | 4.16 | 10.20 | 149.0 | 461 | 0.06 | 227 | 0.5 |
| 9 | 1140 | 3740 | 0.3 | 66.37 | 0.13 | 4.92 | 17.90 | 302.0 | 456 | 0.06 | 455 | 159.2 |
| 10 | 1165 | 3820 | 0.5 | 64.74 | 0.24 | 4.16 | 9.44 | 195.0 | 461 | 0.05 | 301 | 319.9 |
| 11 | 1210 | 3970 | bd1 | 64.50 | 0.24 | 5.10 | 8.32 | 358.0 | 455 | 0.02 | 555 | 204.4 |
| 12 | 1259 | 4130 | bd1 | 68.20 | 0.22 | 4.52 | 3.88 | 205.0 | 444 | 0.02 | 301 | 366.3 |
| 13 | 1274 | 4180 | bd1 | 68.70 | 0.35 | 5.14 | 8.00 | 341.0 | 462 | 0.02 | 496 | 208.9 |
| 14 | 1421 | 4660 | bd1 | 71.10 | 0.34 | 4.98 | 6.51 | 281.0 | 465 | 0.02 | 395 | 349.0 |
| 15 | 1485 | 4870 | bd1 | 67.30 | 0.24 | 4.59 | 8.09 | 275.0 | 462 | 0.03 | 409 | 207.5 |
| 16 | 1506 | 4940 | bd1 | 46.80 | 0.14 | 3.18 | 2.02 | 128.0 | 461 | 0.02 | 274 | 283.1 |
| 17 | 1527 | 5010 | bd1 | 59.10 | 0.22 | 4.24 | 5.32 | 217.0 | 465 | 0.02 | 367 | 130.0 |
| 18 | 1591 | 5220 | bd1 | 43.00 | 0.09 | 3.60 | 6.02 | 214.0 | 464 | 0.03 | 498 | 222.3 |
| 19 | 1625 | 5330 | bd1 | 49.40 | 0.23 | 3.79 | 6.31 | 236.0 | 466 | 0.03 | 478 | 220.0 |
| 20 | 1640 | 5380 | bd1 | 49.10 | 0.20 | 3.62 | 4.08 | 211.0 | 464 | 0.02 | 478 | 242.8 |
| 21 | 1652 | 5420 | bd1 | 56.70 | 0.23 | 4.50 | 9.01 | 315.0 | 465 | 0.02 | 430 | 215.1 |
| 22 | 1753 | 5750 | bd1 | 67.60 | 0.17 | 4.39 | 7.06 | 264.0 | 464 | 0.03 | 391 | 556 |
| 23 | 1787 | 5860 | bd1 | 61.50 | 0.25 | 4.32 | 8.21 | 339.0 | 465 | 0.02 | 551 | 324.0 |
| 25 | 1933 | 6340 | 3.4 | 2.15 | bd1 | 0.65 | 0.39 | 5.9 | 470 | 0.06 | 273 | 347.2 |
| 26 | 1945 | 6380 | bd1 | 59.40 | bd1 | 3.61 | 7.93 | 139.0 | 464 | 0.05 | 234 | 6.3 |
| 27 | 2000 | 6560 | bd1 | 12.00 | bd1 | 1.58 | 1.59 | 68.4 | 476 | 0.02 | 570 | 147.0 |
| 28 | 2024 | 6640 | bd1 | 40.10 | 0.07 | 1.95 | 2.47 | 16.6 | 466 | 0.13 | 41 | 70.0 |
| 29 | 2040 | 6690 | bd1 | 6.22 | bd1 | 1.09 | 0.70 | 21.2 | 471 | 0.03 | 341 | 19.1 |
| 30 | 2046 | 6710 | bd1 | 51.20 | bd1 | 3.63 | 4.52 | 169.0 | 465 | 0.03 | 330 | 21.9 |
| 31 | 2116 | 6940 | 3.9 | 4.67 | bd1 | 0.68 | 15.00 | 12.0 | 463 | 0.56 | 257 | 173.5 |
| 32 | 2177 | 7140 | bd1 | 5.39 | bd1 | 1.00 | 0.31 | 15.1 | 466 | 0.05 | 256 | 27.0 |
| 33 | 2238 | 7340 | bd1 | 38.60 | bd1 | 2.25 | 1.71 | 60.0 | 466 | 0.03 | 155 | 15.9 |
| 34 | 2271 | 7450 | bd1 | 39.50 | bd1 | 3.14 | 4.30 | 191.0 | 464 | 0.02 | 404 | 61.7 |
| 35 | 2290 | 7510 | bd1 | 5.02 | bd1 | 1.03 | 1.10 | 12.6 | 475 | 0.08 | 251 | 195.3 |
| 36 | 2320 | 7610 | bd1 | 5.26 | bd1 | 0.36 | 0.57 | 2.8 | 479 | 0.17 | 53 | 13.7 |
| 37 | 2355 | 7725 | bd1 | 4.48 | bd1 | 0.99 | 0.64 | 13.1 | 474 | 0.05 | 292 | 3.4 |
| 38 | 2372 | 7780 | bd1 | 1.26 | bd1 | 0.93 | 0.22 | 0.3 | 467 | 0.21 | 67 | 13.7 |
| 39 | 2384 | 7820 | bd1 | 21.00 | bd1 | 2.14 | 5.62 | 87.0 | 465 | 0.06 | 414 | 1.1 |
| 40 | 2399 | 7870 | bd1 | 4.28 | bd1 | 0.36 | 1.05 | 12.5 | 465 | 0.08 | 292 | 92.6 |
| 41 | 2402 | 7880 | bd1 | 10.40 | bd1 | 1.25 | 1.17 | 40.2 | 466 | 0.03 | 387 | 13.5 |
| 42 | 2466 | 8090 | 0.1 | 14.28 | bd1 | 1.27 | 0.74 | 21.9 | 467 | 0.03 | 153 | 41.4 |
| 43 | 2482 | 8140 | bd1 | 15.50 | bd1 | 1.28 | 0.90 | 24.0 | 470 | 0.04 | 155 | 22.6 |
| 44 | 2564 | 8410 | bd1 | 3.94 | 0.08 | 0.33 | 0.37 | 9.3 | 463 | 0.08 | 243 | 24.9 |
| 45 | 2585 | 8480 | bd1 | 5.94 | 0.07 | 0.76 | 1.03 | 2.7 | 474 | 0.28 | 45 | 10.7 |
| 46 | 2610 | 8560 | bd1 | 1.91 | bd1 | 0.69 | 0.31 | 1.5 | 470 | 0.17 | 30 | 3.7 |
| 47 | 2651 | 8695 | bd1 | 2.48 | 0.06 | 0.77 | 0.47 | 5.1 | 475 | 0.08 | 206 | 1.8 |
| 48 | 306 | 1003 | 74.4 | bd1 | bd1 | 0.13 | 0.10 | bd1 | ndm | | | 5.6 |
| 49 | 459 | 1504 | 83.3 | bd1 | bd1 | 0.13 | 0.06 | bd1 | ndm | | | 0.2 |
| 50 | 712 | 2336 | 44.3 | 0.61 | bd1 | 0.39 | 0.15 | 0.3 | 473 | 0.33 | 50 | 0.2 |
| 51 | 716 | 2347 | 35.0 | 0.44 | bd1 | 0.47 | 0.10 | 0.4 | 478 | 0.20 | 91 | 0.5 |
| 52 | 1021 | 3349 | 24.5 | 0.14 | bd1 | 0.56 | bd1 | bd1 | ndm | | | --- |
| 53 | 1070 | 3511 | 55.8 | 7.90 | bd1 | 0.75 | 3.17 | 21.9 | 460 | 0.13 | 277 | 25.1 |
| 54 | 1725 | 5658 | bd1 | 0.71 | bd1 | 0.60 | 0.15 | 1.1 | 465 | 0.13 | 152 | 1.2 |
| 55 | 1727 | 5665 | bd1 | 0.86 | bd1 | 0.49 | 0.14 | 0.9 | 465 | 0.13 | 105 | 1.0 |
| 56 | 1867 | 6125 | bd1 | 2.95 | bd1 | 0.37 | 0.57 | 3.5 | 462 | 0.06 | 288 | 9.1 |

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| | | | | | | | | | | | | |
|----|------|------|-----|-------|------|------|------|------|-----|------|-----|------|
| 57 | 1966 | 6450 | bd1 | 3.06 | bd1 | 0.93 | 1.20 | 15.6 | 465 | 0.07 | 510 | 16.8 |
| 58 | 1967 | 6453 | bd1 | 0.52 | bd1 | 0.52 | 0.17 | 1.1 | 465 | 0.13 | 210 | 1.3 |
| 59 | 2355 | 7724 | bd1 | 6.55 | bd1 | 6.55 | 1.48 | 10.2 | 472 | 0.13 | 156 | 11.7 |
| 60 | 2651 | 8695 | bd1 | 11.80 | 0.05 | 1.42 | 4.11 | 46.4 | 470 | 0.08 | 393 | 50.5 |
| 61 | 2652 | 8699 | bd1 | 1.71 | bd1 | 0.62 | 0.61 | 3.3 | 477 | 0.15 | 195 | 3.9 |

Pyrolysis run with CDS Pyroprobe and modified interface: TMAX inaccurate.

M is sample depth in meters.

FT is sample depth in feet.

ZI-C is inorganic carbon as % calcium carbonate in rock.

ZO-C is organic carbon as % carbon in rock.

ZN is % nitrogen in rock.

ZH is % hydrogen in rock.

S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).

S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).

PI is production index $[S1/(S1+S2)]$.

TMAX is temperature at which S2 signal is maximum (deg C).

HI is hydrogen index (mg hydrocarbons/g O-C).

GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).

'bd1' means 'below detection limit'; '---' means 'not determined'.

'ndm' means 'no definitive maximum'.