

Data Repository Item 2002084

**APPENDIX TABLE DR1. RESULTS OBTAINED ON SAMPLES
SEPARATED FROM CORE PS2102-2**
(53°04'S, 04°59'W, 2390 m water depth)

| Depth (cm) | ^{226}Ra (dpm/g) | Ba (%) (± 5%) | BaSO_4 (%) (± 5%) | ^{238}U (dpm/g) (± 20 %) | $^{226}\text{Ra}_{\text{ex}}$ (dpm/g) |
|----------------|------------------------------|---------------------|----------------------------------|---|--|
| dense fraction | | dense fraction | | barite | |
| 3 | 1310 ± 74 | 37.5 | 63.8 | 2.3 | 2050 ± 156 |
| 10 | 538 ± 43 | 15.1 | 25.7 | 3.1 | 2082 ± 201 |
| 20 | 281 ± 24 | 12.0 | 20.4 | 5.3 | 1353 ± 140 |
| 30 | 624 ± 42 | 21.5 | 36.6 | 2.3 | 1699 ± 145 |
| 36 | 682 ± 45 | 30.9 | 52.5 | 5.6 | 1288 ± 109 |
| 40 | 343 ± 17 | 14.6 | 24.8 | 2.0 | 1375 ± 100 |
| 50 | 263 ± 26 | 12.4 | 21.1 | 2.5 | 1237 ± 143 |
| 52 | 884 ± 28 | 38.7 | 65.8 | 3.2 | 1339 ± 81 |
| 60 | 334 ± 22 | 17.7 | 30.1 | 2.1 | 1103 ± 95 |
| 70 | 149 ± 17 | 12.5 | 21.3 | 4.0 | 681 ± 92 |
| 80 | 409 ± 20 | 27.8 | 47.3 | 2.4 | 860 ± 62 |
| 90 | 311 ± 14 | 26.8 | 45.6 | 2.2 | 678 ± 48 |
| 92 | 415 ± 15 | 33.9 | 57.6 | 2.9 | 715 ± 46 |
| 100 | 305 ± 14 | 25.5 | 43.4 | 2.6 | 696 ± 50 |
| 110 | 198 ± 17 | 21.0 | 35.7 | 2.8 | 546 ± 58 |
| 119 | 147 ± 16 | 15.8 | 26.9 | 3.0 | 535 ± 69 |
| 129 | 381 ± 28 | 26.3 | 44.7 | 3.0 | 846 ± 78 |
| 139 | 62.9 ± 4.7 | 9.2 | 15.6 | 3.4 | 381 ± 37 |
| 149 | 86.7 ± 5.5 | 18.6 | 31.6 | 4.4 | 260 ± 22 |
| 159 | 88.6 ± 6.8 | 16.8 | 28.6 | 2.2 | 302 ± 29 |
| 169 | 67.6 ± 6.6 | 18.5 | 31.5 | 1.7 | 209 ± 24 |
| 179 | 75.3 ± 7.6 | 20.6 | 35.0 | 4.0 | 204 ± 25 |
| 189 | 44.8 ± 6.3 | 16.8 | 28.6 | 1.8 | 150 ± 24 |
| 199 | 40.3 ± 6.1 | 14.0 | 23.8 | 2.0 | 161 ± 28 |
| 205 | 42.5 ± 5.9 | 17.8 | 30.3 | <1.5 | 140 ± 21 |
| 212 | 21.4 ± 2.3 | 9.8 | 16.7 | 1.5 | 119 ± 16 |
| 225 | 38.2 ± 9.2 | 22.4 | 38.1 | <1.5 | 100 ± 25 |
| 245 | 28.0 ± 7.2 | 23.5 | 40.0 | <1.5 | 70 ± 19 |
| 255 | 53.6 ± 24.2 | 35.9 | 61.0 | 4.3 | 81 ± 41 |
| 265 | 26.2 ± 12.0 | 11.3 | 19.2 | 3.5 | 118 ± 64 |
| 275 | 17.1 ± 9.8 | 12.5 | 21.3 | 2.8 | 67 ± 47 |
| 285 | 23.7 ± 9.8 | 32.2 | 54.7 | <1.5 | 43 ± 18 |
| 295 | 15.3 ± 9.0 | 14.2 | 24.1 | 4.6 | 44 ± 38 |
| 304 | 5.1 ± 4.3 | 6.5 | 11.1 | <1.5 | 46 ± 39 |

Note: Barite content in the separated samples was determined assuming that all the Ba measured in the dense fractions was associated with barite crystals. The $^{226}\text{Ra}_{\text{ex}}$ activities in barite were obtained by normalizing the $^{226}\text{Ra}_{\text{ex}}$ activities measured in the dense fractions (i.e. $^{226}\text{Ra} - ^{238}\text{U}$) to the barite content.