**Research data for Geo-electric assessment for groundwater potential at permanent site of Waziri Umaru Federal Polytechnic, Birnin Kebbi, Kebbi State North Western, Nigeria**

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**Table 1a** Apparent Resistivity Values in ohm-meter

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AB/2 | MN/2 | K | VES 1 | VES 2 | VES 3 | VES 4 | VES 5 | VES 6 |
| 1 | 0.5 | 2.4 | 1214 | 1968 | 670 | 1176 | 1202 | 838 |
| 1.5 | 6.0 | 1554 | 1448 | 865 | 2712 | 1308 | 1034 |
| 2 | 12.0 | 1967 | 3156 | 1098 | 2146 | 1729 | 1495 |
|  | 27.0 | 2435 | 3785 | 1474 | 2465 | 2114 | 1739 |
| 5 | 78 | 2985 | 4749 | 2490 | 2745 | 2451 | 1766 |
| 5 | 1 | 38 |
| 7 | 75 | 3173 | 5288 | 3473 | 2340 | 1700 | 1500 |
| 10 | 156 | 2910 | 5265 | 4001 | 2275 | 2743 | 1510 |
| 10 | 3 | 48 |
| 15 | 113 | 2026 | 3944 | 3966 | 2124 | 2165 | 1213 |
| 20 | 205 | 1552 | 4449 | 3344 | 2005 | 1445 | 904 |
| 25 | 323 | 1182 | 4147 | 2581 | 1266 | 1021 | 707 |
| 30 | 467 | 849 | 2139 | 2128 | 822 | 773 | 593 |
| 30 | 10 | 126 |
| 35 | 177 | 775 | 44 | 1756 | 784 | 621 | 515 |
| 40 | 236 | 611 | 49 | 1270 | 590 | 461 | 399 |
| 50 | 377 | 30 | 321 | 739 | 371 | 313 | 258 |
| 60 | 550 | 24 | 64 | 425 | 1082 | 242 | 193 |
| 70 | 754 | 30 | 332 | 247 | 128 | 193 | 174 |
| 80 | 990 | 121 | 81 | 173 | 153 | 220 | 135 |
| 90 | 1257 | 19 | 893 | 106 | 226 | 107 | 114 |
| 100 | 1555 | 6 | 342 | 82 | 144 | 110 | 62 |

**Table 1b** Locations of the VES1 to 6

|  |  |  |  |
| --- | --- | --- | --- |
| **VES Points** | **Coordinates** | **VES Points** | **Coordinate** |
| VES 1 | 12027.904ꞌN  004014.392ꞌE  Elevation: 744 | VES 4 | 12028.058ꞌN  004014.351ꞌE  Elevation: 726 |
| VES 2 | 12027.952ꞌN  004014.365ꞌE  Elevation: 734 | VES 5 | 12028.112ꞌN  004014.335ꞌE  Elevation: 704 |
| VES 3 | 12028.005Nꞌ  004014.351Eꞌ  Elevation: 734 | VES 6 | 12028.167ꞌN  004014.337ꞌE  Elevation: 716 |

**Table 2a** Apparent Resistivity Values in ohm-meter

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AB/2 | MN/2 | K | VES 7 | VES 8 | VES 9 | VES 10 | VES 11 | VES 12 |
| 1 | 0.5 | 2.4 | 763 | 1493 | 310 | 737 | 890 | 1490 |
| 1.5 | 6.0 | 936 | 1716 | 630 | 956 | 1027 | 1478 |
| 2 | 12.0 | 1266 | 2345 | 968 | 1211 | 1286 | 1747 |
|  | 27.0 | 1577 | 2743 | 1288 | 1407 | 1585 | 1910 |
| 5 | 78 | 2076 | 2705 | 1735 | 1678 | 2059 | 1739 |
| 5 | 1 | 38 |
| 7 | 75 | 1935 | 2145 | 2580 | 2010 | 2235 | 1553 |
| 10 | 156 | 1714 | 1923 | 1863 | 1502 | 2149 | 1366 |
| 10 | 3 | 48 |
| 15 | 113 | 1439 | 1406 | 1767 | 1513 | 1585 | 1142 |
| 20 | 205 | 1218 | 1355 | 2071 | 1324 | 1220 | 947 |
| 25 | 323 | 1089 | 1040 | 1654 | 1202 | 917 | 751 |
| 30 | 467 | 941 | 834 | 1287 | 840 | 704 | 727 |
| 30 | 10 | 126 |
| 35 | 177 | 795 | 696 | 1151 | 816 | 605 | 490 |
| 40 | 236 | 689 | 543 | 866 | 611 | 436 | 497 |
| 50 | 377 | 491 | 525 | 542 | 449 | 304 | 285 |
| 60 | 550 | 404 | 230 | 327 | 260 | 282 | 223 |
| 70 | 754 | 290 | 491 | 195 | 195 | 214 | 216 |
| 80 | 990 | 194 | 147 | 135 | 154 | 171 | 167 |
| 90 | 1257 | 133 | 98 | 83 | 100 | 133 | 137 |
| 100 | 1555 | 93 | 72 | 62 | 68 | 104 | 90 |

**Table 2b** Locations of the VES 7 to 12

|  |  |  |  |
| --- | --- | --- | --- |
| **VES Points** | **Coordinates** | **VES Points** | **Coordinates** |
| VES 7 | 12027.920ꞌN  004014.445ꞌE  Elevation:  726 | VES 10 | 12028.075ꞌN  004014.396ꞌE  Elevation: 727 |
| VES 8 | 12027.971ꞌN  004014.428ꞌE  Elevation: 731 | VES 11 | 12028.132ꞌN  004014.392ꞌE  Elevation: 720 |
| VES 9 | 12028.024ꞌN  004014.409ꞌE  Elevation: 730 | VES 12 | 12028.186ꞌN  004014.389ꞌE  Elevation: 670 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AB/2 | MN/2 | K | VES 13 | VES 14 | VES 15 | VES 16 | VES 17 | VES 18 |
| 1 | 0.5 | 2.4 | 2143 | 1046 | 842 | 1824 | 715 | 1049 |
| 1.5 | 6.0 | 1920 | 1172 | 1027 | 2454 | 856 | 939 |
| 2 | 12.0 | 1998 | 1188 | 1387 | 2988 | 1033 | 1284 |
|  | 27.0 | 2082 | 1445 | 1744 | 4152 | 1291 | 1636 |
| 5 | 78 | 1711 | 1688 | 2006 | 5097 | 1522 | 2034 |
| 5 | 1 | 38 |
| 7 | 75 | 1605 | 1845 | 2153 | 4455 | 1290 | 1905 |
| 10 | 156 | 1222 | 1284 | 2238 | 2634 | 1183 | 1502 |
| 10 | 3 | 48 |
| 15 | 113 | 1072 | 632 | 1353 | 1592 | 992 | 1075 |
| 20 | 205 | 988 | 457 | 1222 | 1185 | 798 | 847 |
| 25 | 323 | 850 | 239 | 1195 | 766 | 639 | 678 |
| 30 | 467 | 766 | 569 | 853 | 740 | 544 | 693 |
| 30 | 10 | 126 |
| 35 | 177 | 483 | 641 | 766 | 595 | 483 | 628 |
| 40 | 236 | 569 | 493 | 575 | 425 | 397 | 481 |
| 50 | 377 | 315 | 345 | 365 | 345 | 273 | 305 |
| 60 | 550 | 252 | 313 | 253 | 240 | 206 | 209 |
| 70 | 754 | 229 | 468 | 242 | 189 | 163 | 176 |
| 80 | 990 | 199 | 416 | 133 | 130 | 200 | 117 |
| 90 | 1257 | 130 | 288 | 104 | 104 | 75 | 72 |
| 100 | 1555 | 118 | 277 | 64 | 95 | 47 | 78 |

**Table 3b** Locations of the VES 13 to 18

|  |  |  |  |
| --- | --- | --- | --- |
| **VES Points** | **Coordinates** | **VES Points** | **Coordinates** |
| VES 13 | 12028.188ꞌN  004014.446ꞌE  Elevation:  718 | VES 16 | 12028.033ꞌN  004014.468ꞌE  Elevation: 723 |
| VES 14 | 12028.135ꞌN  004014.457ꞌE  Elevation: 719 | VES 17 | 12027.979ꞌN  004014.474ꞌE  Elevation: 722 |
| VES 15 | 12028.086ꞌN  004014.457ꞌE  Elevation: 719 | VES 18 | 12027.926ꞌN  004014.492ꞌE  Elevation: 738 |