

Supplementary material

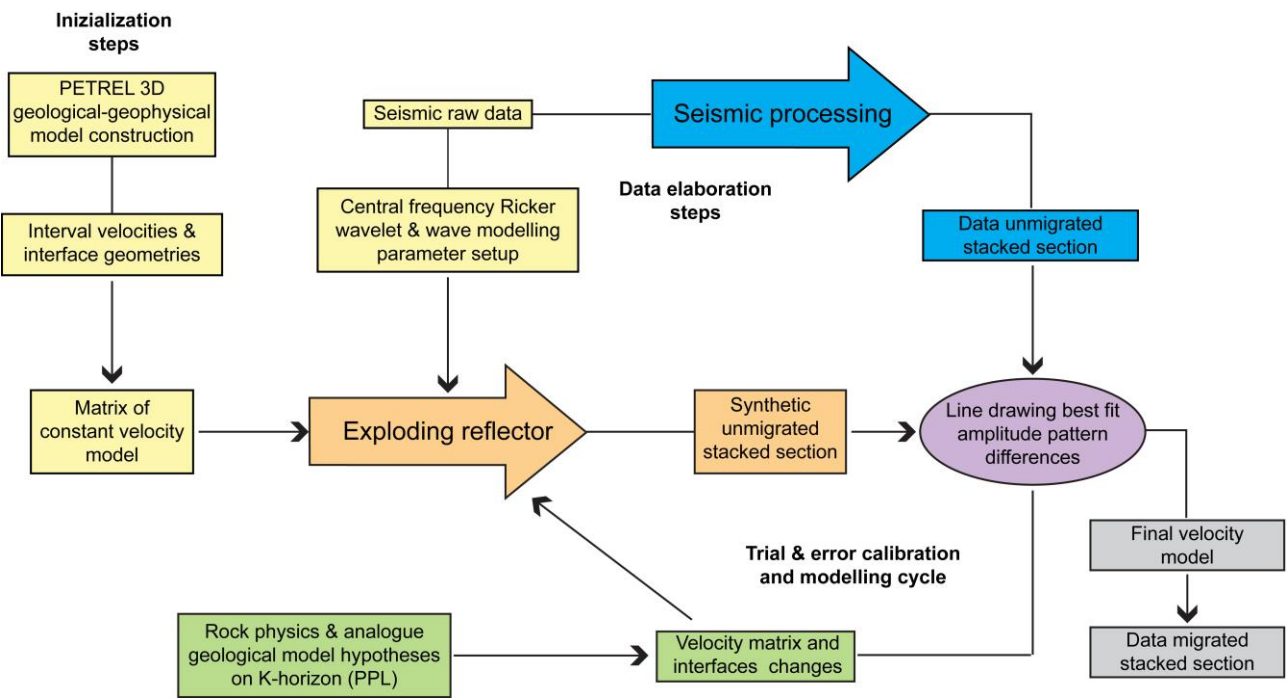


Figure S1

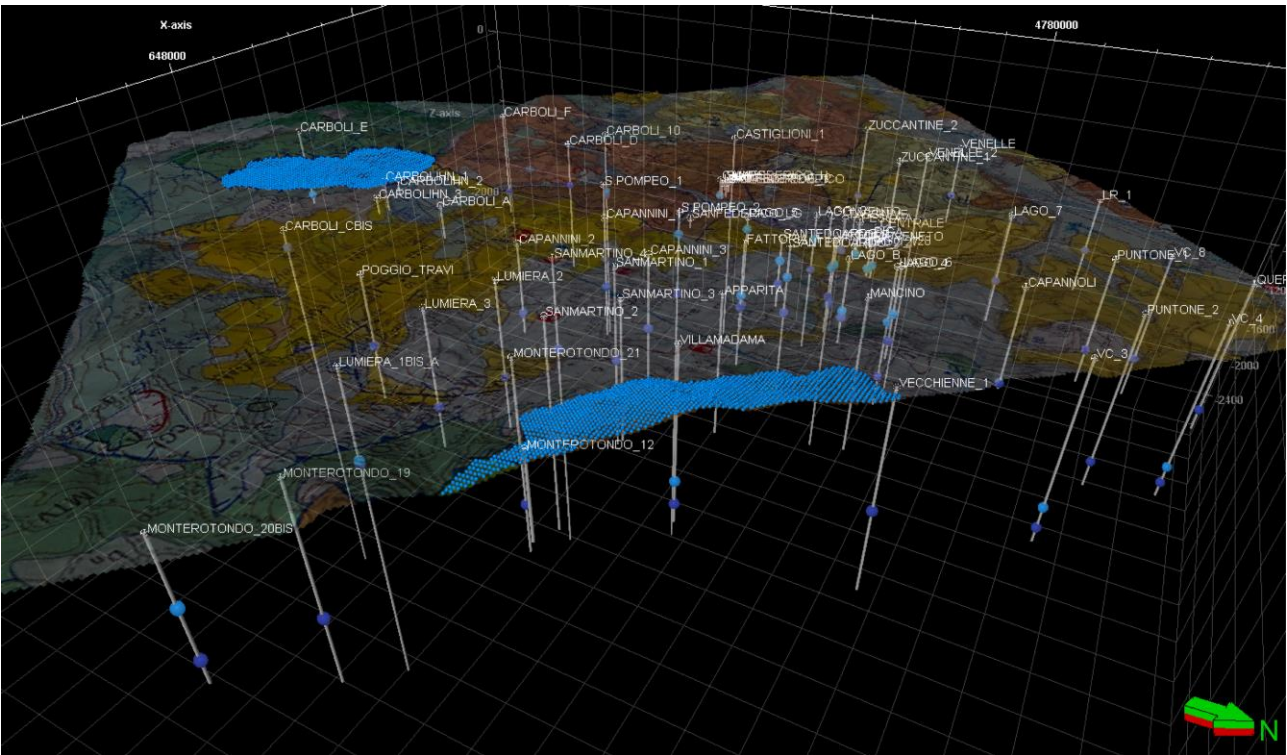


Figure S2

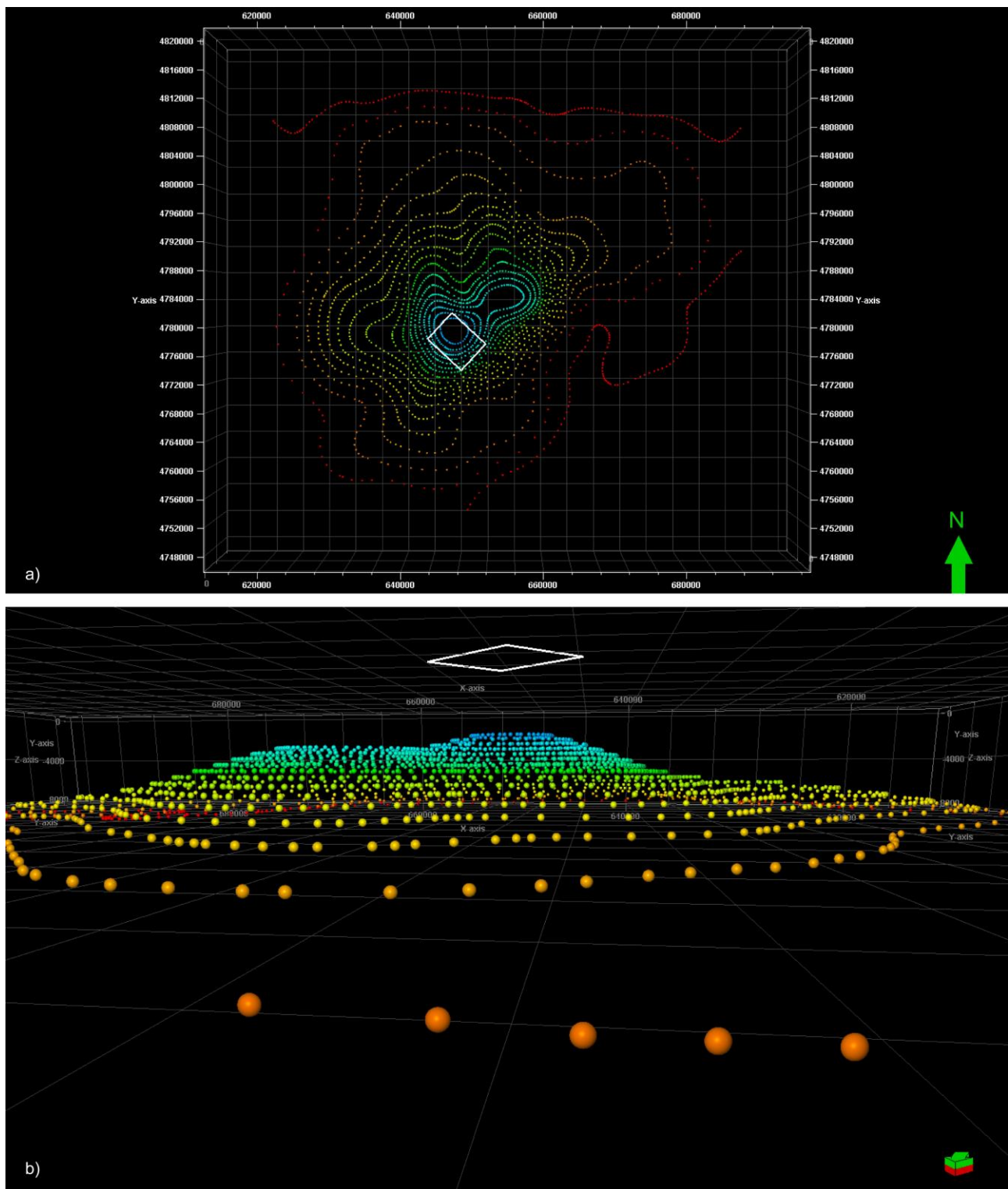


Figure S3

Table S1: Deep geothermal wells used to calibrate geological surfaces [64-65-66-67]. The original well head coordinates have been converted into our geographical system (i.e., WGS84-UTM32N; EPSG code: 32632). No information regarding deviation survey are available. All the wells have been considered vertical.

| Well Name | Northing WGS84UTM32N | Easting WGS84UTM32N | Well head (m a.s.l.) | Bottom hole (m in MD) |
|--------------------|-------------------------|------------------------|-------------------------|--------------------------|
| APPARITA | 4779042 | 648601 | 300 | 955 |
| CAMPO | 4778296 | 646951 | 193 | 143 |
| CAPANNINI_1 | 4777949 | 647992 | 255 | 880 |
| CAPANNINI_2 | 4777620 | 648496 | 220 | 645 |
| CAPANNINI_3 | 4778418 | 648275 | 240 | 1180 |
| CAPANNOLI | 4780470 | 647582 | 215 | 709 |
| CARBOLI_10 | 4777083 | 646496 | 170 | 1858 |
| CARBOLI_A | 4776844 | 648271 | 214 | 240 |
| CARBOLI_C | 4776275 | 649097 | 255 | 1017 |
| CARBOLI_CBIS | 4776275 | 649091 | 255 | 2907 |
| CARBOLI_D | 4776936 | 646816 | 172 | 1080 |
| CARBOLI_E | 4775420 | 648069 | 415 | 562 |
| CARBOLI_F | 4776286 | 646762 | 268 | 832 |
| CARBOLIHN_1 | 4776318 | 648214 | 261 | 219 |
| CARBOLIHN_2 | 4776441 | 648212 | 255 | 78 |
| CARBOLIHN_3 | 4776446 | 648438 | 250 | 114 |
| CASTIGLIONI_1 | 4778128 | 646315 | 265 | 1766 |
| CENTRALE | 4779505 | 647196 | 203 | 366 |
| CONVENTO | 4779197 | 647203 | 216 | 216 |
| DIGA | 4779508 | 647331 | 198 | 278 |
| FATTORIA_1 | 4778872 | 647888 | 245 | 891 |
| LAGO_127 | 4779451 | 647513 | 200 | 10 |
| LAGO_128 | 4779511 | 647467 | 200 | 10 |
| LAGO_3 | 4779105 | 647227 | 212 | 1024 |
| LAGO_4 | 4779763 | 647687 | 215 | 1009 |
| LAGO_5 | 4778708 | 647433 | 200 | 870 |
| LAGO_6 | 4779795 | 647732 | 250 | 651 |
| LAGO_7 | 4780235 | 646683 | 235 | 797 |
| LAGO_8 | 4779326 | 647471 | 200 | 1659 |
| LAGO_B | 4779486 | 647739 | 220 | 591 |
| LAGOSANFEDERICO | 4778328 | 646995 | 190 | 115 |
| LR_1 | 4780714 | 646018 | 185 | 708 |
| LUMIERA_1 | 4777717 | 650121 | 320 | 1000 |
| LUMIERA_1BIS_A | 4777717 | 650121 | 320 | 2287 |
| LUMIERA_2 | 4777848 | 649034 | 286 | 1046 |
| LUMIERA_3 | 4777735 | 649511 | 325 | 935 |
| MANCINO | 4779744 | 648253 | 290 | 1059 |
| MONTEROTONDO_12 | 4779021 | 650438 | 545 | 497 |
| MONTEROTONDO_19 | 4778229 | 650924 | 452 | 1243 |
| MONTEROTONDO_20BIS | 4778054 | 651380 | 475 | 842 |
| MONTEROTONDO_21 | 4778481 | 649766 | 400 | 1276 |

| | | | | |
|----------------|---------|--------|-----|------|
| PESCAIA | 4779382 | 647176 | 201 | 244 |
| POGGIO_TRAVI | 4777145 | 649343 | 289 | 863 |
| PUNTONE_1 | 4780889 | 646940 | 196 | 898 |
| PUNTONE_2 | 4781088 | 647613 | 226 | 1222 |
| QUERCIOLA_2 | 4781627 | 646856 | 180 | 1061 |
| RINALDO | 4778359 | 646972 | 188 | 73 |
| S.POMPEO_1 | 4777628 | 647456 | 214 | 869 |
| S.POMPEO_2 | 4778279 | 647578 | 200 | 2967 |
| SANFEDERICO_1 | 4778359 | 646995 | 198 | 102 |
| SANFEDERICO_2 | 4778358 | 646949 | 189 | 83 |
| SANFEDERICO_H | 4778327 | 646950 | 198 | 77 |
| SANFEDERICO_LG | 4778372 | 647605 | 188 | 73 |
| SANMARTINO_1 | 4778363 | 648593 | 295 | 1305 |
| SANMARTINO_2 | 4778379 | 649338 | 367 | 1498 |
| SANMARTINO_3 | 4778618 | 648972 | 351 | 964 |
| SANMARTINO_4 | 4777962 | 648624 | 265 | 2309 |
| SANTEDOARDO_1 | 4779021 | 647636 | 205 | 492 |
| SANTEDOARDO_2 | 4779116 | 647747 | 220 | 1177 |
| TASSINAIE | 4779289 | 647201 | 215 | 226 |
| VC_3 | 4780888 | 648341 | 308 | 1235 |
| VC_4 | 4781487 | 647514 | 234 | 1221 |
| VC_8 | 4781192 | 646685 | 175 | 1040 |
| VECCHIENNE_1 | 4780135 | 649193 | 422 | 1302 |
| VENELLE | 4779652 | 645401 | 150 | 620 |
| VILLAMADAMA | 4779119 | 649306 | 402 | 1159 |
| VITTORIOVENETO | 4779327 | 647516 | 206 | 671 |
| ZUCCANTINE_1 | 4779394 | 646333 | 324 | 614 |
| ZUCCANTINE_2 | 4778946 | 645575 | 235 | 878 |
