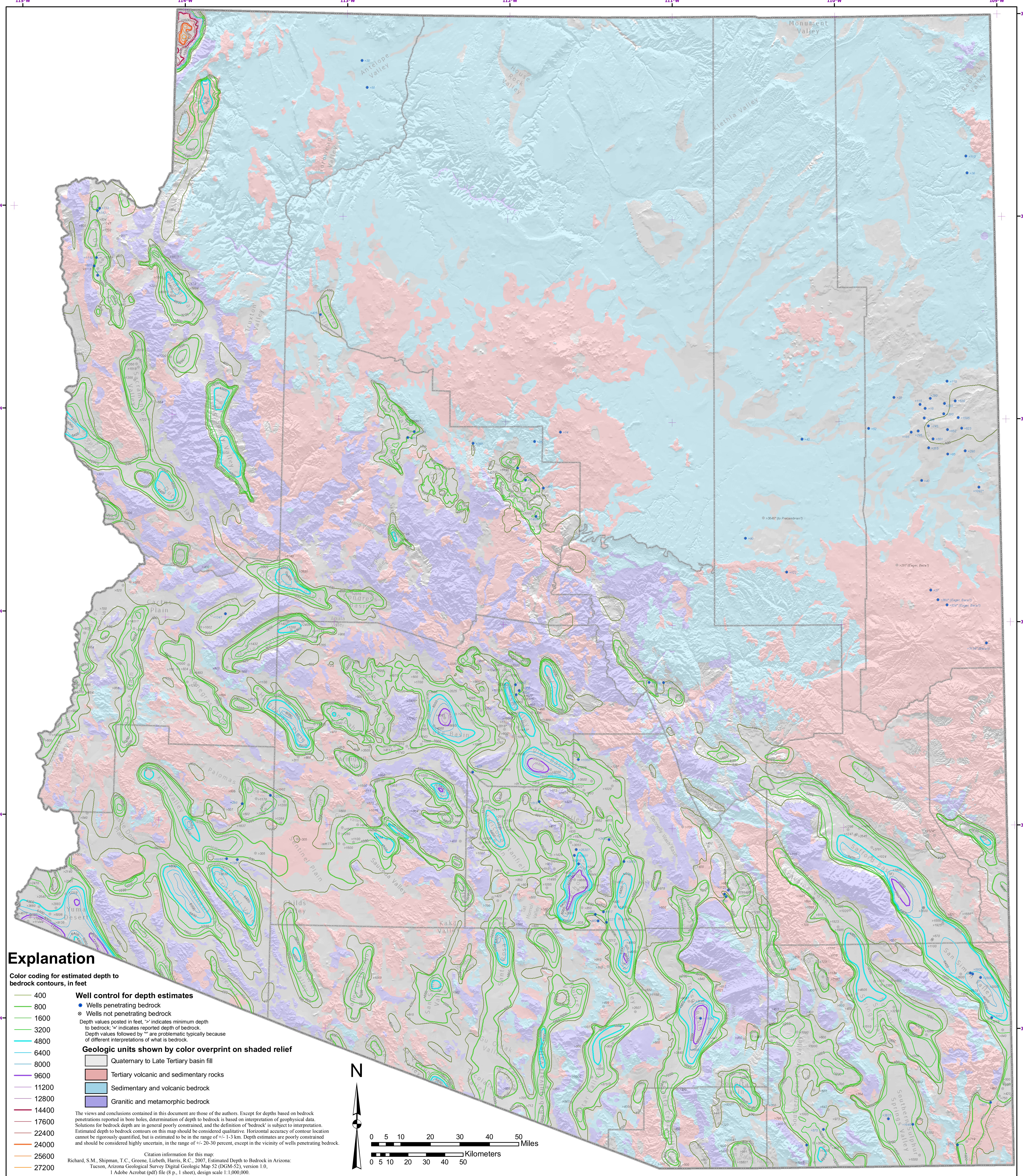

Explanation

Color coding for estimated depth to bedrock contours, in feet

400
800
1600
3200
4800
6400
8000
9600
11200
12800
14400
17600
22400
24000
25600
27200

Well control for depth estimates

- Wells penetrating bedrock
- Wells not penetrating bedrock

Depth values posted in feet, '>' indicates minimum depth to bedrock; '=' indicates reported depth of bedrock. Depth values followed by '*' are problematic typically because of different interpretations of what is bedrock.

Geologic units shown by color overprint on shaded relief

- Quaternary to Late Tertiary basin fill
- Tertiary volcanic and sedimentary rocks
- Sedimentary and volcanic bedrock
- Granitic and metamorphic bedrock

The views and conclusions contained in this document are those of the authors. Except for depths based on bedrock penetrations reported in bore holes, determination of depth to bedrock is based on interpretation of geophysical data. Solutions for bedrock depth are in general poorly constrained, and the definition of 'bedrock' is subject to interpretation. Estimated depth to bedrock contours on this map should be considered qualitative. Horizontal accuracy of contour location cannot be rigorously quantified, but is estimated to be in the range of +/- 1-3 km. Depth estimates are poorly constrained and should be considered highly uncertain, in the range of +/- 20-30 percent, except in the vicinity of wells penetrating bedrock.

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N

0 5 10 20 30 40 50 Miles
0 5 10 20 30 40 50 Kilometers

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Projection: Lambert conformal conic, central meridian 111°W, standard parallels 33°N and 45°N, latitude of origin 23°N

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Estimated Depth to Bedrock in Arizona

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Arizona Geological Survey Digital Geologic Map 52 (DGM-52), version 1.0
April, 2007