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Standard Test Method for Determination of In Situ Stress in Rock Mass by Overcoring Method—USBM Borehole Deformation Gage¹

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1. Scope*

1.1 This test method covers the determination of the ambient local stresses in a rock mass and the equipment required to perform in situ stress tests using a three-component borehole deformation gage (BDG). The test procedure and method of data reduction are described, including the theoretical basis and assumptions involved in the calculations. A section is included on troubleshooting equipment malfunctions.

¹ This test method is under the jurisdiction of ASTM Committee D-18 on Soil and Rock and is the direct responsibility of Subcommittee D18.12 on Rock Mechanics. Current edition approved July 10, 1996; 2002. Published November 1996; April 2002. Originally published as D 4546 – 90; D 4623 – 86. Last previous edition D 4546 – 90; D 4623 – 96

*A Summary of Changes section appears at the end of this standard.