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ON THE COVER

Standing at ~7-centimeters tall, this 404.2-carat rough diamond was recovered from the Lulo mine, Angola, in February 2016. Evidence from the interior of such large gem diamonds suggests that these diamonds grow from an iron-nickel metallic liquid in Earth’s deep convecting mantle. The presence of metal in regions of the deep mantle has broad implications for Earth’s geologic evolution. See page 1403. Photo: © SPOA/Orel Simon