

THE CARLSBAD SPRINGS
AND THEIR RELATION TO THE THERMAL REGIONS
OF NORTHWESTERN BOHEMIA

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After exhaustively analyzing the different older and newer theories dealing with the Carlsbad mineral springs, the author states his own theory. The structure of the landscape belies the conclusion that the springs of this region originate in a so-called thermal fissure, as till now the conviction was, for the assumed direction of this fissure deviates by 20 degrees from the varistic main direction of the region. The author assumes the contact of two kinds of granite of different epochs (Hirschensprung granite and Kreuzberg granite). He rejects also the hypothesis of v. Hoff that a great explosion occurred on the first appearance of the spring. The well itself is a mixture of gas and water, not only a water spring.

An essential clue to the origin of the thermal waters was given in 1906 by the digging of the Marien Wells in Koenigswert near Falkenau (15 km west of Carlsbad) which severely disturbed the flow of the springs. All the Carlsbad springs are of homogeneous origin, being contactsprings originating in the zone of contact between the old Hirschensprung granite and the Kreuzberg granite.