A GEOLOGICAL MAP
OF A PORTION OF THE
SOUTHERN TRANSVAAL
AND A PORTION OF THE
NORTHERN ORANGE FREE STATE.

Illustrating a new reading of the Geology of the Witwatersrand System in these areas.

By W. E. BLELOCH, author of "The New South Africa."

REFERENCE.

FORMATIONS YOUNGER THAN THE WITWATERSRAND SYSTEM.

Coal Measures and Dwyka Conglomerate (Lower Karroo System).

UNCONFORMITY.

Gatsrand Series (Transvaal System).

The Dolomite Series and the Black Reef Series (Transvaal System).

UNCONFORMITY.

Klipriversberg Amygdaloidal Diabase (Vaal River or Ventersdorp System).

UNCONFORMITY.

THE WITWATERSRAND SYSTEM.

Elsburg Series–Post Elsburg?
Kimberley Series.
Bird Reef Series.
Main Reef Series.
Market Square-Fairview Series (Government Reef Series).
South Rietfontein or Langermannskop Series.
Rietfontein or Van Ryn Series.
Hospital Hill Series.
Yeoville Series.
Orange Grove Series

UNCONFORMITY.

FORMATIONS OLDER THAN THE WITWATERSRAND SYSTEM.

The Old Granite and Schists (Archæan System).

The direction of dip is indicated by arrows.

Section from Klipfontein through Germiston to Kuilfontein along line C–D.

Section from Klipriversberg through Witpoort to Cyferfontein along line E–F

Section from Zesfontein to Uitkyk along line G–H.

Section from Palmietfontein north of Parys to Braamfontein north of Johannesburg along line A–B.

N.B.—The author desires to state that the new data for this Map have been obtained chiefly by direct personal observation in the field, but some of the information has been derived from reports made for him by other Geologists. He wishes to thank the following gentlemen for their active assistance: Messrs. Harold S. Haughton, F.G.S., J. A. Thorburn, F.G.S., Harold S. Fyfe, F.G.S., P. J. Kelbe, F. E. Kives and F. Marsden.

The author also desires to point out that the area now being explored by Mr. A. R. Sawyer, F.G.S., on behalf of the Rietfontein District of the Orange Free State, is not dealt with in this Map, as he had in possession of complete information about the area in question. It is evident from Mr. Sawyer's published reports that in the course of country he is working on, there is a section of the Witwatersrand System dipping at 30° to the South away from what he terms the Anticline. This is a condition which makes it very probable that Mr. Sawyer will succeed in his enterprise of locating the Main Reef Series in that area.

Scale of English Miles.

N.B.: Accompanying this Map there is a short treatise explaining the new reading of the Geology of the Witwatersrand System which the Map illustrates.

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