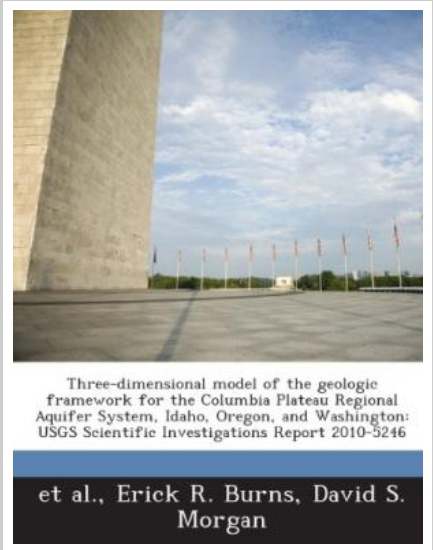

Three-Dimensional Model of the Geologic Framework for the Columbia Plateau Regional Aquifer System, Idaho, Oregon, and Washington: Usgs Scientific Investigations Report 2010-5246

By Erick R Burns, David S Morgan

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.As part of a U.S. Geological Survey Groundwater Resources Program study, a three-dimensional geologic model was constructed for approximately 53,000 square miles of the Columbia Plateau in Idaho, Oregon, and Washington. This model was constructed to define the general aquifer system geometry for use in a regional numerical groundwater flow model. Simplifications and assumptions consistent with this ultimate goal and with the uncertainty in the available data were made. The model units consist of Miocene-age Columbia River Basalt Group strata and younger sedimentary overburden covering approximately 44,000 square miles. Data were compiled from numerous databases and detailed studies that were completed during the past three decades. These data include stratigraphic interpretations of more than 13,000 wells and a contiguous compilation of surficial geology and structural features in the study area. These data were simplified and used to construct piecewise-smooth trend surfaces that represent upper and lower subsurface model unit boundaries in this complex folded and faulted terrain. The smoothness of the surfaces implicitly represents uncertainty in prediction of each surface resulting from data gaps, errors in borehole interpretations....

Reviews

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