HYDROLOGIC ATLAS OF THE BLACK HILLS, PENNINGTON COUNTY, SOUTH DAKOTA

PACTOLA DAM QUADRANGLE

Structure Contour Map

Structure Contour Map:
A map showing, by means of lines of equal elevation (contours), the shape of the surface of a selected rock layer (contact) beneath the Earth’s surface.

Deadwood Formation (See map)
Surface exposures of the Deadwood aquifer recharge area form a north-northwest trend across the northeastern part of the map area. Across a distance of about two miles structure contour lines reveal that the upper contact of the unit extends from the surface on the west, at elevations of approximately 4,700 feet, to a subsurface elevation of 3,500 feet above sea level in the northeast corner of the map area. This is a horizontal distance of slightly more than two miles and indicates a dip (tilt) of the layers across this distance of five to seven degrees per mile.

References