

Structural investigation and geological mapping of Juna and Jhawala area, Kotli, Azad Jammu and Kashmir

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Abstract

The areas of Jhuna and Jhawala were investigated to get detailed insight into their structural makeup. Being sandwiched between Jhelum Fault to the west and Himalayan Frontal Thrust in the east, the structural style of the area is controlled by the two. The Middle to Late Miocene Chinji and Late Miocene Nagri formations covering the surface area of the mapped area are involved in folding and faulting. The structural fabrication of the area is composed of northeast – southwest verging or northwest – southeast trending gentle to open folds and a reverse fault, depicting a northeast - southwest compression. The general trend of the mapped structures is collinear with the anti-clock wise rotation of the Hazara Kashmir Syntaxis and the sinistral movement along the Jhelum Fault.