



**EXPLANATION**

Thrust fault, showing dip  
Sawtooth on upper plate. Angle of dip interpreted to be less than 45° at time of faulting

Underthrust fault  
Sawtooth on upper plate. UT, on actively moving lower plate

Reverse fault  
R, upthrown side. Angle of dip interpreted to be greater than 45° at time of faulting

Tear fault

Arrows show relative horizontal movement

Klippe

Tectonic window

Anticline  
Showing crestline and direction of plunge

Overturned anticline  
Showing crestline and direction of dip of limbs and plunge

Syncline  
Showing troughline and direction of plunge

Overturned syncline  
Showing troughline and direction of dip of limbs

Inclined Overturned Apparent Horizontal Vertical  
Strike and dip of beds

Inclined Vertical  
Strike and dip of joints

Length of strike line proportional to number of joints in ratio of 5:1. Dip symbol solid where joint mineralized

TECTONIC MAP OF THE WEST-CENTRAL PART OF THE SOUTHERN ANTHRACITE FIELD AND ADJOINING AREAS, PENNSYLVANIA

