GEOLOGIC QUADRANGLE MAPS OF THE UNITED STATES

GEOLOGIC MAP OF THE BROTHERS QUADRANGLE
JEFFERSON, MASON, AND KITSAP COUNTIES, WASHINGTON

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GEOLOGIC MAP SYMBOLS
COMMONLY USED ON MAPS OF THE UNITED STATES GEOLOGICAL SURVEY

Contact - dashed where approximately located; short dashed where inferred; dotted where concealed

Contact, showing dip

Contact, well exposed at triangle

Fault - dashed where approximately located; short dashed where inferred; dotted where concealed

Fault, showing dip - U, upthrown side; D, downthrown side

Fault - ball and bar on downthrown side

Normal fault - hachured on downthrown side

Fault - showing relative horizontal movement

Thrust fault - sawteeth on upper plate

Anticline - showing direction of plunge; dashed where approximately located; dotted where concealed

Asymmetric anticline - short arrow indicates steeper limb

Overturned anticline - showing direction of dip of limbs

Syncline - showing direction of plunge; dashed where approximately located; dotted where concealed

Asymmetric syncline - short arrow indicates steeper limb

Overturned syncline - showing direction of dip of limbs

Monocline - showing direction of plunge of axis

Minor anticline - showing plunge of axis

Minor syncline - showing plunge of axis

Strike and dip of beds

Strike and dip of overturned beds

Strike of vertical beds

Horizontal beds

Strike and dip of foliation

Strike of vertical foliation

Horizontal foliation

Strike and dip of cleavage

Strike of vertical cleavage

Horizontal cleavage

Bearing and plunge of lineation

Vertical lineation

Horizontal lineation

Strike and dip of joints

Strike of vertical joints

Horizontal joints

Note: planar symbols (strike and dip of beds, foliation or schistosity, and cleavage) may be combined with linear symbols to record data observed at same locality by superimposed symbols at point of observation. Coexisting planar symbols are shown intersecting at point of observation.

Vertical shaft

Inclined shaft

Portal of adit, tunnel, or slope

Inaccessible adit, tunnel, or slope

Prospect pit

Drilling well

Dry hole or abandoned well

Gas well

Oil well

Well, show of oil

Well, show of gas

Shut-in-well