

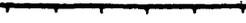
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

**BEDROCK GEOLOGIC MAP OF THE STANHOPE QUADRANGLE,
SUSSEX AND MORRIS COUNTIES, NEW JERSEY**

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GEOLOGIC QUADRANGLE MAP
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GEOLOGIC MAP SYMBOLS
COMMONLY USED ON MAPS OF THE UNITED STATES GEOLOGICAL SURVEY
(Special symbols are shown in explanation)

-  Contact – Dashed where approximately located; short dashed where inferred; dotted where concealed
-  Contact – Showing dip; well exposed at triangle
-  Fault – Dashed where approximately located; short dashed where inferred; dotted where concealed
-  Fault, showing dip – 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 – Ball indicates top of beds known from sedimentary structures

-  ⁷⁰ Inclined  Horizontal
-  Vertical  ⁴⁰ Overturned

Strike and dip of foliation

-  ²⁰ Inclined  Vertical  Horizontal

Strike and dip of cleavage

-  ¹⁵ Inclined  Vertical  Horizontal

Bearing and plunge of lineation

-  ¹⁵ Inclined  Vertical  Horizontal

Strike and dip of joints

-  ⁴⁰ Inclined  Vertical  Horizontal

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.

Shafts

-  Vertical  Inclined

Adit, tunnel, or slope

-  Accessible  Inaccessible

x Prospect

Quarry

-  Active  Abandoned

Gravel pit

-  Active  Abandoned

Oil well

-  Drilling  Shut-in  Dry hole abandoned
-  Gas  Show of gas
-  Oil  Show of oil