DRAKE AND VOLKERT—BEDROCK GEOLOGIC MAP, NEWTON EAST QUADRANGLE, N.J. 1:24,000

U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY

BEDROCK GEOLOGIC MAP OF THE NEWTON EAST QUADRANGLE, SUSSEX COUNTY, NEW JERSEY

By Avery Ala Drake, Jr. and Richard A. Volkert

Prepared in cooperation with the NEW JERSEY GEOLOGICAL SURVEY

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 | Strike and dip of beds - Ball indicates top of beds known from sedimentary structures |
|---|--|--|
| ^45 | Contact - Showing dip; well exposed at triangle | → Vertical → Horizontal Overturned |
| *************************************** | Fault - Dashed where approximately located; short dashed where inferred; dotted where concealed | Strike and dip of foliation Inclined Vertical Horizontal Strike and dip of cleavage |
| | Fault, showing dip - Ball and bar on downthrown side | Inclined — Vertical Horizontal Bearing and plunge of lineation |
| | Normal fault — Hachured on downthrown side | 15 Inclined ◆ Vertical ←→ Horizontal |
| | Fault - Showing relative horizontal movement | Strike and dip of joints |
| | Thrust fault - Sawteeth on upper plate | Note: planar symbols (strike and dip of beds, foliation or schistosity, and cleavage) may be combined with linear symbols to record data |
| | Anticline — Showing direction of plunge; dashed where approximately located; dotted where concealed | observed at same locality by superimposed symbols at point of observation. Coexisting planar symbols are shown intersecting at point of observation. |
| | Asymmetric anticline — Short arrow indicates steeper limb | |
| | Overturned anticline — Showing direction of dip of limbs | Shafts Vertical p Inclined |
| | Syncline - Showing direction of plunge; dashed where approximately located; dotted where concealed | Adit, tunnel, or slope Accessible Inaccessible Prospect |
| | Asymmetric syncline — Short arrow indicates steeper limb | Quarry |
| | Overturned syncline - Showing direction of dip of limbs | ☆ Active ☆ Abandoned Gravel pit |
| - | Monocline - Showing direction of plunge of axis | X Active X Abandoned Oil well |
| | Minor anticline - Showing plunge of axis | o Drilling & Shut-in & Dry hole |
| -€→60 | Minor syncline - Showing plunge of axis | Oil |