DRAKE AND OTHERS—BEDROCK GEOLOGIC MAP OF THE TRANQUILITY QUADRANGLE, N.J. 1:24,000 GQ-1717

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

BEDROCK GEOLOGIC MAP OF THE TRANQUILITY QUADRANGLE, WARREN, SUSSEX, AND MORRIS COUNTIES, NEW JERSEY

By Avery Ala Drake, Jr., Richard A. Volkert, Peter T. Lyttle, and Mark Germine

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	ہے۔ Inclined ⊕ Horizontal ← Vertical بات Overturned
	Fault - Dashed where approximately located; short dashed where inferred; dotted where concealed	Strike and dip of foliation 20 Inclined Vertical Horizontal
	Fault, showing dip - Ball and bar on downthrown side	Strike and dip of cleavage 15 Inclined — Vertical Horizontal Bearing and plunge of lineation
	Normal fault – Hachured on downthrown side	/5 Inclined ◆ Vertical ←→ Horizontal
	Fault - Showing relative horizontal movement	Strike and dip of joints 40 Inclined — Vertical + Horizontal
	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 Inclined
	Syncline - Showing direction of plunge; dashed where approximately located; dotted where concealed	Adit, tunnel, or slope → Accessible → Inaccessible
	Asymmetric syncline - Short arrow indicates steeper limb	x Prospect Quarry
	Overturned syncline - Showing direction of dip of limbs	☆ Active
	Monocline – Showing direction of plunge of axis	X Active X Abandoned Oil well
⁸⁰	Minor anticline - Showing plunge of axis	o Drilling ¢ Shut-in & Dry hole ☆ Gas
€ 60	Minor syncline - Showing plunge of axis	⊙ Oil Show of oil