DRAKE-GEOLOGIC MAP OF THE NEWTON WEST QUADRANGLE, NEW JERSEY SCALE 1:24,000 MAP GQ-1703

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

BEDROCK GEOLOGIC MAP OF THE NEWTON WEST QUADRANGLE, SUSSEX AND WARREN COUNTIES, NEW JERSEY

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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	Strike and dip of beds — Ball indicates top of beds known from sedimentary structures
	 Contact - Showing dip; well exposed at triangle 	→ Vertical → Overturned
	. Fault - Dashed where approximately	Strike and dip of foliation
	located; short dashed where inferred; dotted where concealed	Inclined
. 20		Strike and dip of cleavage
	Fault, showing dip — Ball and bar en downthrown side	15 Inclined - Vertical + Horizontal
		Bearing and plunge of lineation
, , , , , , , , , , , , , , , , , , , 	Normal fault – Hachured on downthrown side	¹⁵ ← Inclined ◆ Vertical ← Horizontal
		Strike and dip of joints
	Fault - Showing relative horizontal movement	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 observed at same locality by superimposed
	Anticline - Showing direction of plunge; dashed where approximately located;	symbols at point of observation. Coexisting planar symbols are shown intersecting at point
	dotted where concealed	of observation.
	 Asymmetric anticline - Short arrow indicates steeper limb 	
	Overturned anticline - Showing direction	Shafts
	of dip of limbs	🛮 Vertical 👨 Inclined
	Syncline - Showing direction of plunge;	Adit, tunnel, or slope
	dashed where approximately located; dotted where concealed	→ Accessible → Inaccessible
	dotted where concealed	x Prospect
	Asymmetric syncline — Short arrow indicates steeper limb	Quarry
	······································	☆ Active
	Overturned syncline - Showing direction of dip of limbs	Gravel pit
•		X Active X Abandoned
	Monocline – Showing direction of plunge of axis	Oil well
		o Drilling & Shut-in & Dry hole
>- ⁸⁰	Minor anticline - Showing plunge of axis	⇔ Gas ⇔ Show of gas abandoned
-€→ 60	Minor syncline - Showing plunge of axis	• Oil Show of oil