DRAKE —BEDROCK GEOLOGIC MAP OF THE ALLENTOWN WEST QUADRANGLE, PENNSYLVANIA 1:24,000 GQ-1727

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

## BEDROCK GEOLOGIC MAP OF THE ALLENTOWN WEST QUADRANGLE, LEHIGH AND BERKS COUNTIES, PENNSYLVANIA

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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
^ 45	Contact - Showing dip; well exposed at triangle	→ Inclined ⊕ Horizontal → Vertical → Overturned
	Fault – Dashed where approximately located; short dashed where inferred; dotted where concealed	Strike and dip of foliation  Note: The image of the image
	Fault, showing dip - Ball and bar on downthrown side	Bearing and plunge of lineation
<del></del>	Normal fault - Hachured on downthrown side	15 Inclined ◆ Vertical ←→ Horizontal  Strike and dip of joints
	Fault - Showing relative horizontal movement	Vertical
	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
<del></del>	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	
<del></del>	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 Haccessible
	Asymmetric syncline – Short arrow indicates steeper limb	x Prospect  Quarry
<del></del>	Overturned syncline - Showing direction of dip of limbs	☆ Active ☆ Abandoned  Gravel pit
<del></del>	Monocline – Showing direction of plunge of axis	X Active X Abandoned Oil well
<sup>20</sup>	Minor anticline - Showing plunge of axis	o Drilling φ Shut-in φ Dry hole
€ 60	Minor syncline - Showing plunge of axis	• Oil 👙 Show of oil