DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

## GEOLOGIC MAP AND CROSS SECTION OF THE ABRA QUADRANGLE, COSTA RICA

## MAPA GEOLOGICO Y CORTE TRANSVERSALE DE LA HOJA ABRA, COSTA RICA

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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	→ Vertical → Horizontal  Overturned
	Fault – Dashed where approximately located; short dashed where inferred; dotted where concealed	Strike and dip of foliation  20 Inclined  Vertical  Horizontal  Strike and dip of cleavage
	Fault, showing dip - Ball and bar on downthrown side	Journal → Vertical → Horizontal  Bearing and plunge of lineation
<del>, , , , , , , , , , , , , , , , , , , </del>	Normal fault – Hachured on downthrown side	<sup>15</sup> 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	o
<del></del>	Overturned anticline - Showing direction of dip of limbs	Shafts  ☑ Vertical ☑ Inclined
<del></del>	Syncline – Showing direction of plunge; dashed where approximately located; dotted where concealed	Adit, tunnel, or slope  Accessible Accessible  x Prospect
+	Asymmetric syncline — Short arrow indicates steeper limb	Quarry
<del></del>	Overturned syncline - Showing direction of dip of limbs	☆ Active
<del></del>	Monocline - Showing direction of plunge of axis	★ Active ★ Abandoned   Oil well
<sup>20</sup>	Minor anticline - Showing plunge of axis	o Drilling
-€→60	Minor syncline - Showing plunge of axis	● Oil ♦ Show of oil