

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

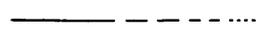
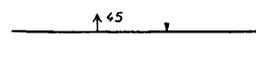
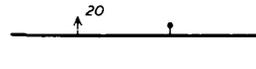
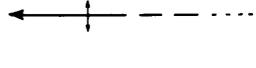
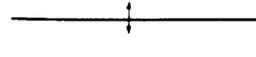
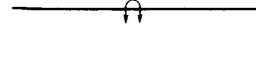
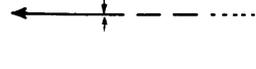
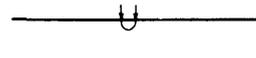
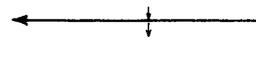
**RECONNAISSANCE GEOLOGIC MAP OF THE  
BOYD GLACIER QUADRANGLE, MARIE BYRD  
LAND, ANTARCTICA**

**By F. Alton Wade, Carl A. Cathey, and  
Jerry B. Oldham**

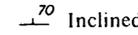
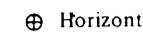
Prepared by the  
ANTARCTIC RESEARCH CENTER, THE MUSEUM  
TEXAS TECH UNIVERSITY  
under the auspices of the  
NATIONAL SCIENCE FOUNDATION

U.S. ANTARCTIC RESEARCH PROGRAM MAP  
Published by the U.S. Geological Survey, 1977  
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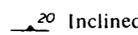
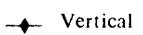
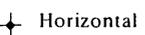
**GEOLOGIC MAP SYMBOLS**  
**COMMONLY USED ON MAPS OF THE UNITED STATES GEOLOGICAL SURVEY**  
(Special symbols are shown in explanation)

-  Contact – Dashed where approximately located; short dashed where inferred; dotted where concealed
-  Contact – Showing dip; well exposed at triangle
-  Fault – Dashed where approximately located; short dashed where inferred; dotted where concealed.
-  Fault, showing dip – Ball and bar on downthrown side
-  Normal fault – Hachured on downthrown side
-  Fault – Showing relative horizontal movement
-  Thrust fault – Sawteeth on upper plate
-  Anticline – Showing direction of plunge; dashed where approximately located; dotted where concealed
-  Asymmetric anticline – Short arrow indicates steeper limb
-  Overturned anticline – Showing direction of dip of limbs
-  Syncline – Showing direction of plunge; dashed where approximately located; dotted where concealed
-  Asymmetric syncline – Short arrow indicates steeper limb
-  Overturned syncline – Showing direction of dip of limbs
-  Monocline – Showing direction of plunge of axis
-  Minor anticline – Showing plunge of axis
-  Minor syncline – Showing plunge of axis

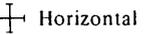
Strike and dip of beds – Ball indicates top of beds known from sedimentary structures

-  <sup>20</sup> Inclined
-  Horizontal
-  Vertical
-  <sup>40</sup> Overturned

Strike and dip of foliation

-  <sup>20</sup> Inclined
-  Vertical
-  Horizontal

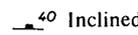
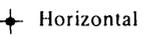
Strike and dip of cleavage

-  <sup>15</sup> Inclined
-  Vertical
-  Horizontal

Bearing and plunge of lineation

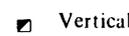
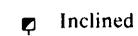
-  <sup>15</sup> Inclined
-  Vertical
-  Horizontal

Strike and dip of joints

-  <sup>40</sup> Inclined
-  Vertical
-  Horizontal

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 symbols at point of observation. Coexisting planar symbols are shown intersecting at point of observation.

Shafts

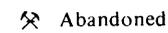
-  Vertical
-  Inclined

Adit, tunnel, or slope

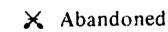
-  Accessible
-  Inaccessible

x Prospect

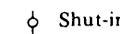
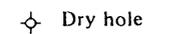
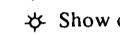
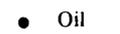
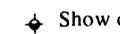
Quarry

-  Active
-  Abandoned

Gravel pit

-  Active
-  Abandoned

Oil well

-  Drilling
-  Shut-in
-  Dry hole abandoned
-  Gas
-  Show of gas
-  Oil
-  Show of oil