

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

**GEOLOGIC MAP OF THE CHALLIS QUADRANGLE,
CUSTER AND LEMHI COUNTIES, IDAHO**



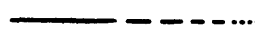

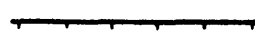
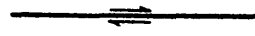
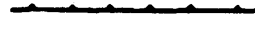
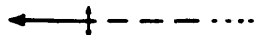

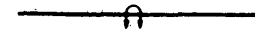


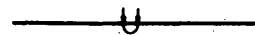



By D. H. McIntyre and S. W. Hobbs

GEOLOGIC QUADRANGLE MAP
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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

-  70° Inclined
-  Horizontal
-  Vertical
-  40° Overturned




Strike and dip of foliation

-  20° Inclined
-  Vertical
-  Horizontal

Strike and dip of cleavage

-  15° Inclined
-  Vertical
-  Horizontal

Bearing and plunge of lineation

-  45° Inclined
-  Vertical
-  Horizontal

Strike and dip of joints



-  40° 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

Prospect








Quarry

-  Active
-  Abandoned

Gravel pit

-  Active
-  Abandoned

Oil well

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