

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

**GEOLOGIC MAP OF THE ABIATHAR PEAK QUADRANGLE,
YELLOWSTONE NATIONAL PARK, WYOMING AND MONTANA**

**By H. J. Prostka, E. T. Ruppel,
and R. L. Christiansen**

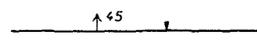
GEOLOGIC QUADRANGLE MAP
Published by the U.S. Geological Survey, 1975
Reston, Va. 22092

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

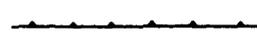
 Contact -- Showing dip; well exposed at triangle

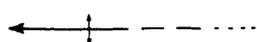
 Fault -- Dashed where approximately located; short dashed where inferred; dotted where concealed

 Fault, showing dip -- Ball and bar on downthrown side

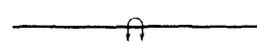
 Normal fault -- Hatchured on downthrown side

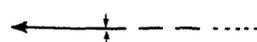
 Fault -- Showing relative horizontal movement

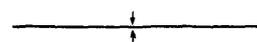
 Thrust fault -- Sawteeth on upper plate

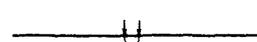
 Anticline -- Showing direction of plunge; dashed where approximately located; dotted where concealed

 Asymmetric anticline -- Short arrow indicates steeper limb

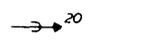
 Overturned anticline -- Showing direction of dip of limbs

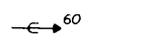
 Syncline -- Showing direction of plunge; dashed where approximately located; dotted where concealed

 Asymmetric syncline -- Short arrow indicates steeper limb

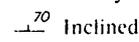
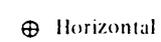
 Overturned syncline -- Showing direction of dip of limbs

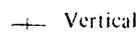
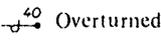
 Monocline -- Showing direction of plunge of axis

 Minor anticline -- Showing plunge of axis

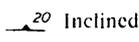
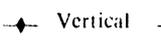
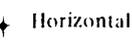
 Minor syncline -- Showing plunge of axis

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

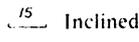
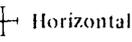
 70° Inclined  Horizontal

 Vertical  40° Overturned

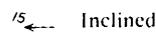
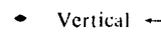
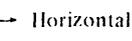
Strike and dip of foliation

 20° Inclined  Vertical  Horizontal

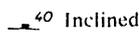
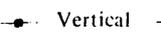
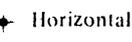
Strike and dip of cleavage

 15° Inclined  Vertical  Horizontal

Bearing and plunge of lineation

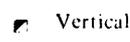
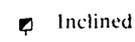
 15° Inclined  Vertical  Horizontal

Strike and dip of joints

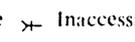
 40° Inclined  Vertical  Horizontal

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

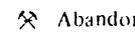
 Vertical  Inclined

Adit, tunnel, or slope

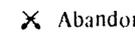
 Accessible  Inaccessible

Prospect

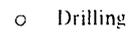
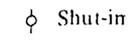
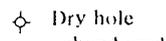
 Quarry

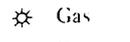
 Active  Abandoned

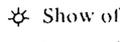
Gravel pit

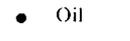
 Active  Abandoned

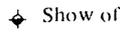
Oil well

 Drilling  Shut-in  Dry hole abandoned

 Gas

 Show of gas

 Oil

 Show of oil