

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

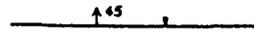
**GEOLOGIC MAP OF THE BIG ROCK HILL QUADRANGLE,
McKINLEY COUNTY, NEW MEXICO**

By Allan R. Kirk and Robert S. Zech

GEOLOGIC QUADRANGLE MAP
Published by the U.S. Geological Survey, 1987

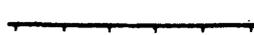
GEOLOGIC MAP SYMBOLS
COMMONLY USED ON MAPS OF THE UNITED STATES GEOLOGICAL SURVEY
(Special symbols are shown in explanation)

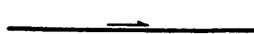
 Contact – Dashed where approximately located; short dashed where inferred; dotted where concealed

 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

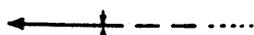
 Fault – Showing relative horizontal movement

 Thrust fault – Sawteeth on upper plate

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

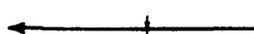
 Asymmetric anticline – Short arrow indicates steeper limb

 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  Overturned

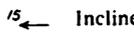
Strike and dip of foliation

 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

x Prospect

Quarry

 Active  Abandoned

Gravel pit

 Active  Abandoned

Oil well

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