



- EXPLANATION**
- Outcrop of phosphate bed; if dotted, probable or inferred
  - Fault  
D Downthrown side  
U Upthrown side
  - Concealed fault (Covered by later deposits)
  - Probable or inferred fault
  - Overthrust low-angle fault  
T, Overthrust side
  - Axis of anticline
  - Axis of syncline
  - Axis of overturned or recumbent anticline or syncline
  - Mine tunnel showing direction
  - Possible site of adit level or crosscut  
12 5,650-ft. level  
13 6,100-ft. level
  - Prospect
  - Strike and dip of bedding
  - Strike of vertical bed
  - Strike and dip of overturned bed
- GEOLOGIC FORMATIONS**
- Area of superficial gravel, etc.
  - Qal Alluvium (Recent)
  - Qgl Glacial drift (Pleistocene)
  - Qtg Terrace gravel (Pleistocene and Pliocene)
  - Tlb "Lake beds" (Tertiary)
  - Kc Colorado formation (Upper Cretaceous)
  - Kk Kootenai formation (Lower Cretaceous)
  - Je Ellis formation (Upper Jurassic)
  - Cp Phosphoria formation (Permian)
  - Cq Quadrant formation (Pennsylvanian)
  - Cm Madison limestone (Mississippian)
  - Dj Jefferson limestone (Middle Devonian)
  - S.C. Silurian and Cambrian
  - Cf Flathead quartzite (Middle Cambrian)
  - pCb Belt series (pre-Cambrian)
  - Tg Granite

R. 14 W. R. 13 W.  
**GEOLOGIC MAP OF PHOSPHATE AREA NEAR PHILIPSBURG, MONT.**

1 0 1 MILE

Geology adapted, with some modifications by J. T. Pardee, from the Philipsburg geologic folio (No. 196), by F. C. Calkins and W. H. Emmons.

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