

EXPLANATION



Quaternary alluvium (flood plain deposits)



Pleistocene or Pliocene olivine basalt (Qlb, flows; Qlbd, low lava domes)



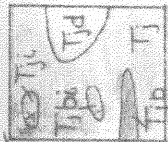
Pliocene lallos formation (sem-consolidated tuffaceous sandstone, siltstone and conglomerate)

---unconformity---



Miocene Columbia River basalt

---unconformity---



Lower Miocene and upper Oligocene John Day Formation (tuffs and welded tuffs--dacitic and/or rhyolitic, Tj; flows of a new black basalt with sparse olivine, Tjb; dacite dome, Tjd; Tj; rhyolite and dacite plugs; Tjbi, basalt plug, former for Tjb flows.

---unconformity---



Lower Oligocene formation (andesitic flows, breccia and tuff, Tc; andesite plug, Tcl)

---unconformity---



Pre-Oligocene rocks (Ms, dark gray phyllite and some graywacke, chert pebble conglomerate and greenstone near Hay Creek; MPs, mica schist near Muddy "anch)

Intrusive Rocks, relation to specific extrusive rocks unknown

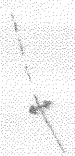


Basalt plug



Landslide

Contact, dashed where inferred or very approximately located (should be dashed at 1:50,000 scale), dotted where concealed by landslide.



Anticline, showing trace of axial plane, dashed where approximately located



Incline, showing trace of axial plane, dashed where approximately located



Fault, showing relative movement, dashed where inferred

Scale: 1:125,000

Dallas I. Peck, 1917

*Note added  
symbols on  
SY map*