Plate1. Geologic Map of the Southern Grande Ronde Valley and lower Catherine Creek Drainage

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EXPLANATION OF MAP UNITS

Surficial (Quaternary Units)

Valley-Floor Units

- Qa — Active channels
- Qal — Recent floodplain
- Qfd — Fan delta
- Qe — Eolian deposits
- Qta — Airport terraces
- Qtl — La Grande terraces

Valley Margin Units

- Qf — Alluvial fan deposits
- Qls — Landslides
- Qdf — Debris flows
- Qg — Glacial deposits
- Qu — Undifferentiated surficial deposits

Valley-fill Units (Pleistocene-Miocene)

- QTal — Older alluvial deposits

Bedrock

Powder River Volcanic Field
Glass Hill Volcanics

- Tpgab — Alkali basalt
- Tpga — Andesite and basaltic andesite
- Tpgrb — Basaltic andesite
- Tpgrs — Basalt scoria
- Tpgrc — Andesite scoria
- Tpgh — Hornblende andesite
- Tpgd — Dacite and andesite
- Tpgb — Olivine basalt
- Tgl — Lacustrine sediments and ash flows

Columbia River Basalt Group
Grande Ronde Basalt

- Tcgf — Ferroandesite of Fiddler's Hell
- Tcgn2 — N2 magnetostratigraphic unit
- Tcgr2 — R2 magnetostratigraphic unit
- Tcgu — Undifferentiated

Pre-Tertiary Metamorphic and Intrusive Rocks

- Tmzi — Intrusive rocks
- JTm — Limestone

MAP SYMBOLS

- Contact -- Approximately located
- Fault -- dashed where buried: bars on downthrown side
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- 25 — Inclined bedding -- Showing strike and dip
- 14 — Inclined bedding -- Showing strike and dip; estimated from aerial photographs

0 2.5 5

kilometers