



19°0'0"V



EXPLANATION OF SYMBOLS

 $/_2$ Inclined bedding showing strike and dip Stream \rightarrow Inclined eutaxitic foliation — showing **≥**25 Intermittent stream

Road

A——**A'** Cross-section line

 \times ^{1514'} DEM (10-meter) derived elevation

strike and dip

Location of whole-rock XRF geochemical ●^{G4} analysis sample

24.75 ± 0.15 Ma Location of radiometric age sample in millions of years (Ma)

Contact — solid line where accurately located, long-dashed where queried where uncertain.

Fault — solid line where accurately located, long-dashed where _____ __ _____ approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.

Normal fault — ball and bar on downthrown block. Solid line where _____ _ _ _ _ _ _ _ _ _ _ _ _ _ _ accurately located, long-dashed where approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.

Oblique-slip fault, right-lateral offset — ball and bar on downthrown block. Solid line where accurately located and existence certain, shortdashed where inferred, dotted where approximate, queried where uncertain.

Oblique-slip fault, right-lateral offset (in cross section) — minus, ⊖∥⊕ away from observer; plus, towards observer. Short-dashed line where inferred, dotted where approximate. Arrows show relative motion.

> Normal fault (in cross section) — Short-dashed line where inferred, dotted where approximate. Arrows show relative motion.

Anticline — solid line where accurately located, long-dashed where _____ _____ approximate, short-dashed where inferred, dotted where concealed, queried where uncertain.

References:

GEOLOGIC CROSS SECTIONS

2x vertical exaggeration (Horizontal 1:24,000) Selected Quaternary units not shown in cross sections. The extent of dacite (Toda) in the subsurface is not know and is therefore queried. Subsurface projection of Toda is based on exposed thickness in the quadrangle.







NOTICE: This manuscript is submitted for publication with the understanding that the United States Government is authorized to reproduce and distribute reprints for governmental use. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. government.

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. This publication cannot substitute for site-specific investigations by qualified practitioners. Site-specific data may give results that differ from the results shown in the publication.

Cohen, K. M., Finney, S. C., Gibbard, P.L. and Fan, J.-X, 2013, The ICS

International Chronostratigraphic Chart: Episodes 36, p. 199-204.

2004: Cambridge, U.K., Cambridge University Press, 589 p.

Geology Reviewers: Mark L. Ferns and Darrick Boschmann

scale: New York, Cambridge University Press, 184 p.

Digital Cartography: Jon J. Franczyk, DOGAMI

Gradstein, F. M., Ogg, J. G., and Smith, A. G., eds., 2004, A geologic time scale

Ogg, J. G., Ogg, G., and Gradstein, F. M., 2008, The concise geologic time

U.S. Geological Survey 7.5-minute quadrangles. Map plate extent shown with a filled brown polygon.

Source Data: U.S. Geological Survey (USGS) National Elevation Dataset (NED) 10-meter digital elevation model (DEM) for Devine Ridge North (43118-G8) quadrangle. Water features from USGS High Resolution National Hydrography Dataset (NHD): Aquatic Resources Information System (ARMIS) (2017). Road features from the Oregon Department of Transportation (ODOT) (2015).

Projection: Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Datum: NAD 1983 HARN. UTM Coordinates: Zone 11N, NAD83.

Software: Esri ArcGIS® 10.6 and Adobe® Illustrator® CC

Field Work: Robert A. Houston, DOGAMI

Idol City District Epithermal Au Deposit FEET METERS - 2000 6500 Tmdo Тоа Tmb Tor 6000 — Toda Toda 5500 $\ominus | \ominus$ Toda 5000 — Toda 1400 4500 -4000 — 1200 3500