

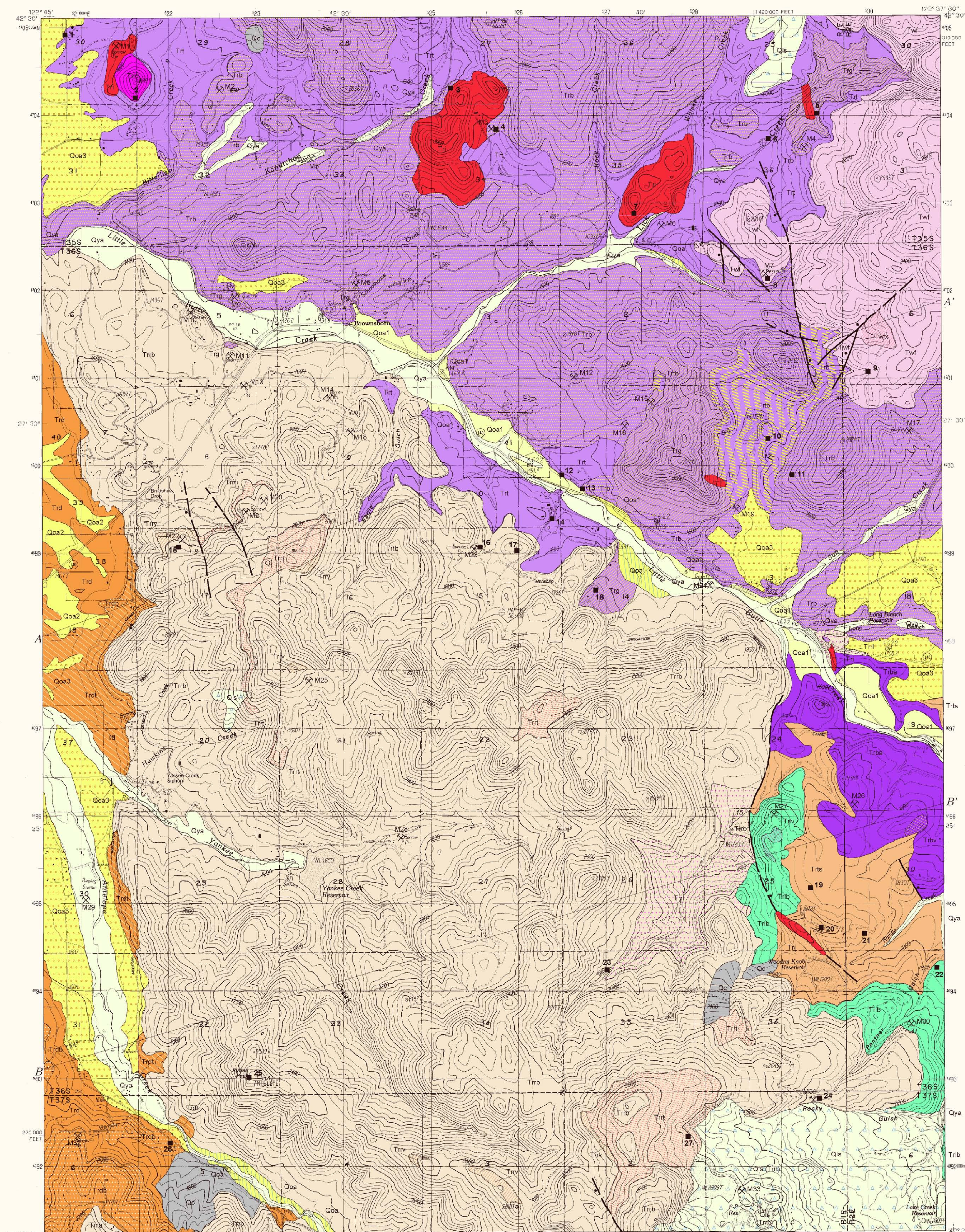
Geology and Mineral Resources Map of the Brownsboro Quadrangle, Jackson County, Oregon

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
DONALD A. HULL, STATE GEOLOGIST

1999

GMS-109
Geology and Mineral Resources Map of the
Brownsboro Quadrangle, Jackson County, Oregon
By Frank R. Hladky

Funded in part by the U.S. Geological Survey, Department of the Interior,
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Base map from U.S. Geological Survey Digital Raster Graphic

CONTROL BY USGS, NORTHAMERICA, STATE OF OREGON
1982 FIELD CHECKED 1982 MAP EDITED 1988
PROJECTION LAMBERT CONFORMAL CONIC
1983 10-METER GRID TICS OREGON, SOUTH NAD
UTM GRID DECLINATION 1983 EAST
1983 MAGNETIC NORTH DECLINATION 1979 LAST
1983 HORIZONTAL DATUM 1983 HORIZONTAL DATUM
1983 HORIZONTAL DATUM 1983 HORIZONTAL DATUM

To place on the predicted North American Datum of 1983,
move the projection lines as shown by dashed corner ticks
120 meters north (25 meters east)

No distinction made between houses, barns, and other buildings
No distinction made between private and public lands or between
any Federal and State Reservations shown on this map

No distinction made between houses, barns, and other buildings

SCALE 1:24 000

KILOMETERS
METERS
MILES
FEET

CONTOUR INTERVAL 40 FEET

CONTROL ELEVATIONS SHOWN TO THE NEAREST
OTHER ELEVATIONS SHOWN TO THE NEAREST

To convert meters to feet multiply by 2.206
To convert feet to meters multiply by 0.3048

1	2	3	1 Shady Cove
			2 Obenchain Mtn.
4		5	3 Butte Falls
			4 Eagle Point
6	7	8	5 Lake Creek
			6 Medford East
			7 Rio Canyon
			8 Grizzly Peak

ADAPTED BY: J. S. QUADRANGLE NAMES

Geology by Frank R. Hladky, Oregon Department of Geology
and Mineral Industries

Map reviewed by Jad D'Allura, Southern Oregon University

Field work conducted in 1996-97

Cartography by Paul Staub

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**This map
is available from:**

The Nature of the Northwest Information Center
800 NE Oregon Street #5
Portland, OR 97232
503/872-2750 www.naturenw.org

and the Baker City and Grants Pass, Oregon field offices
of the Oregon Department of Geology and Mineral Industries

EXPLANATION OF MAP UNITS
(See accompanying text for complete description of geologic units)




Surficial Deposits

- | | |
|------|--|
| Qya | Young alluvium (Holocene) |
| Qoa1 | Older alluvium (Holocene) |
| Qc | Colluvium (Holocene and Pleistocene) |
| Qls | Landslide deposits (Holocene and Pleistocene) |
| Qoa2 | Older alluvium (Holocene and Pleistocene) |
| Qoa | Older alluvium, undivided (Holocene and Pleistocene) |
| Qoa3 | Older alluvium (Pleistocene) |

Tertiary Volcanic Rocks




- | Wasson Formation (lower Miocene) | |
|--|---|
| Twf | Andesite |
| Twf ₁ | Vent deposits |
| Roxy Formation (lower Miocene and Oligocene) | |
| Trt | Tuff |
| Trb | Basalt, basaltic andesite, and andesite |
| Trg | Vent deposits |
| Trb ₁ | Tuff breccia |

- | | Rio Canyon member |
|---|---|
|  | Basalt, basaltic andesite, and andesite |
|  | Vent agglutinate |
|  | Lithic tuff |
|  | Tuff |

- | | |
|---|-------------------------------------|
|  | Lake Creek member |
|  | Basalt and basaltic andesite |
|  | Vent agglutinate |

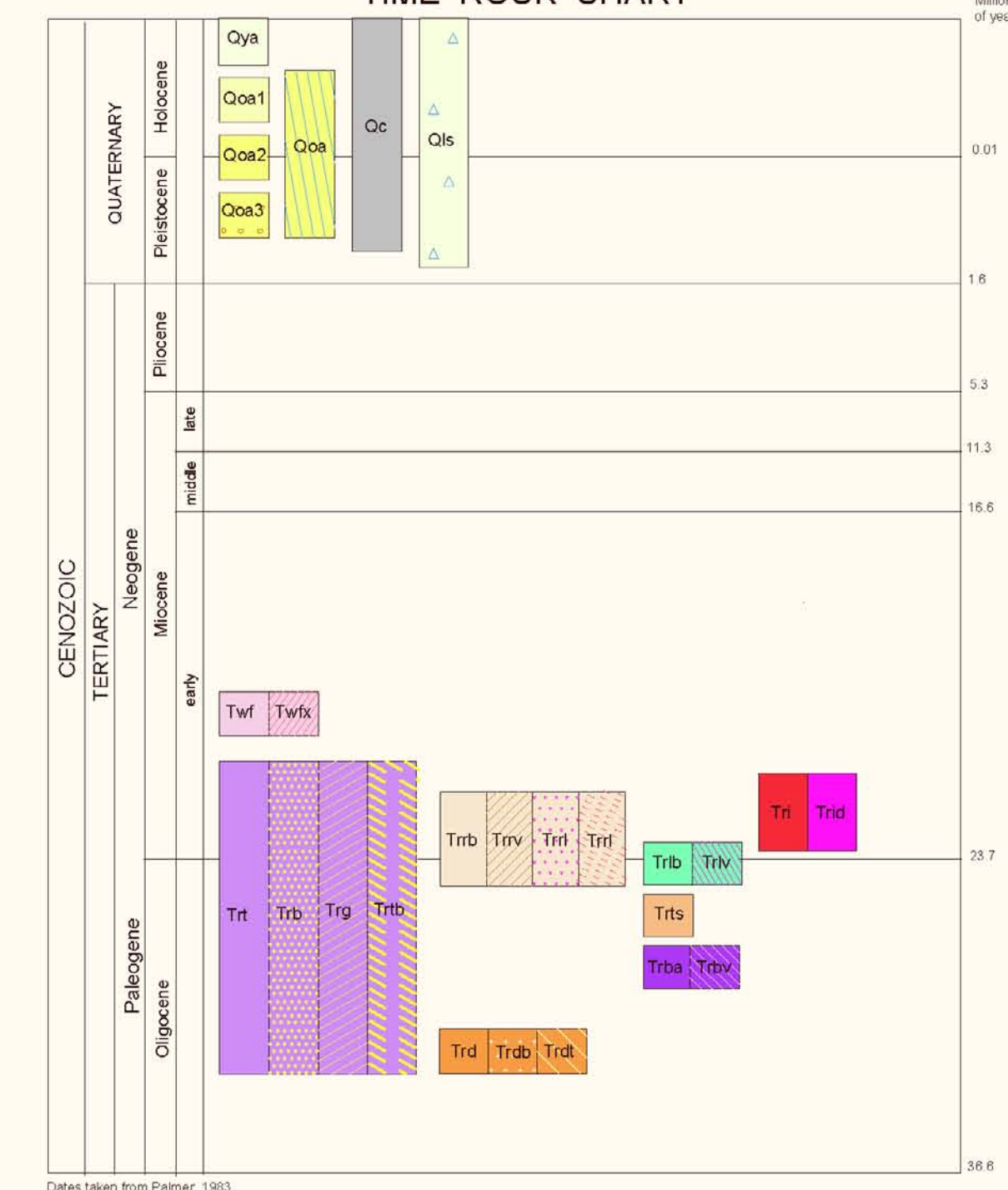
- South Fork Little Butte Creek member
- Tuffs

- | Unnamed basaltic andesite lavas of the Roxy Formation | |
|---|-------------------|
| Trba | Basaltic andesite |
| Trbv | Vent agglutinate |





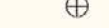


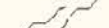


- | | |
|---|--|
|  | Dry Creek member |
| | Undivided tuffaceous rocks and basaltic andesite |
|  | Basaltic andesite |
|  | Tuff |

- | Intrusive and hypabyssal rocks | |
|--------------------------------|--|
| Tn | Basaltic andesite and andesite intrusive rocks (lower Miocene) |
| Tnd | Trachydacite intrusive rocks (lower Miocene) |

TIME ROCK CHART



MAP SYMBOLS

- | | | |
|---|---|---|
|  | Contact | Approximately located |
|  | Fault | Dashed where approximately located; dotted where concealed; ball and bar on downthrown side |
|  | Strike and dip of bedding | |
|  | Strike and dip of bedding—visual field estimate | |
|  | Horizontal bedding | |
|  | Vertical dike | |
|  | Landslide scarp | |
|  | Shear zone | |
|  | Sample location with map number | See Table 1 in accompanying text |
|  | Mine/quarry location with map number | See Table 2 in accompanying text |

GEOLOGIC CROSS SECTIONS

