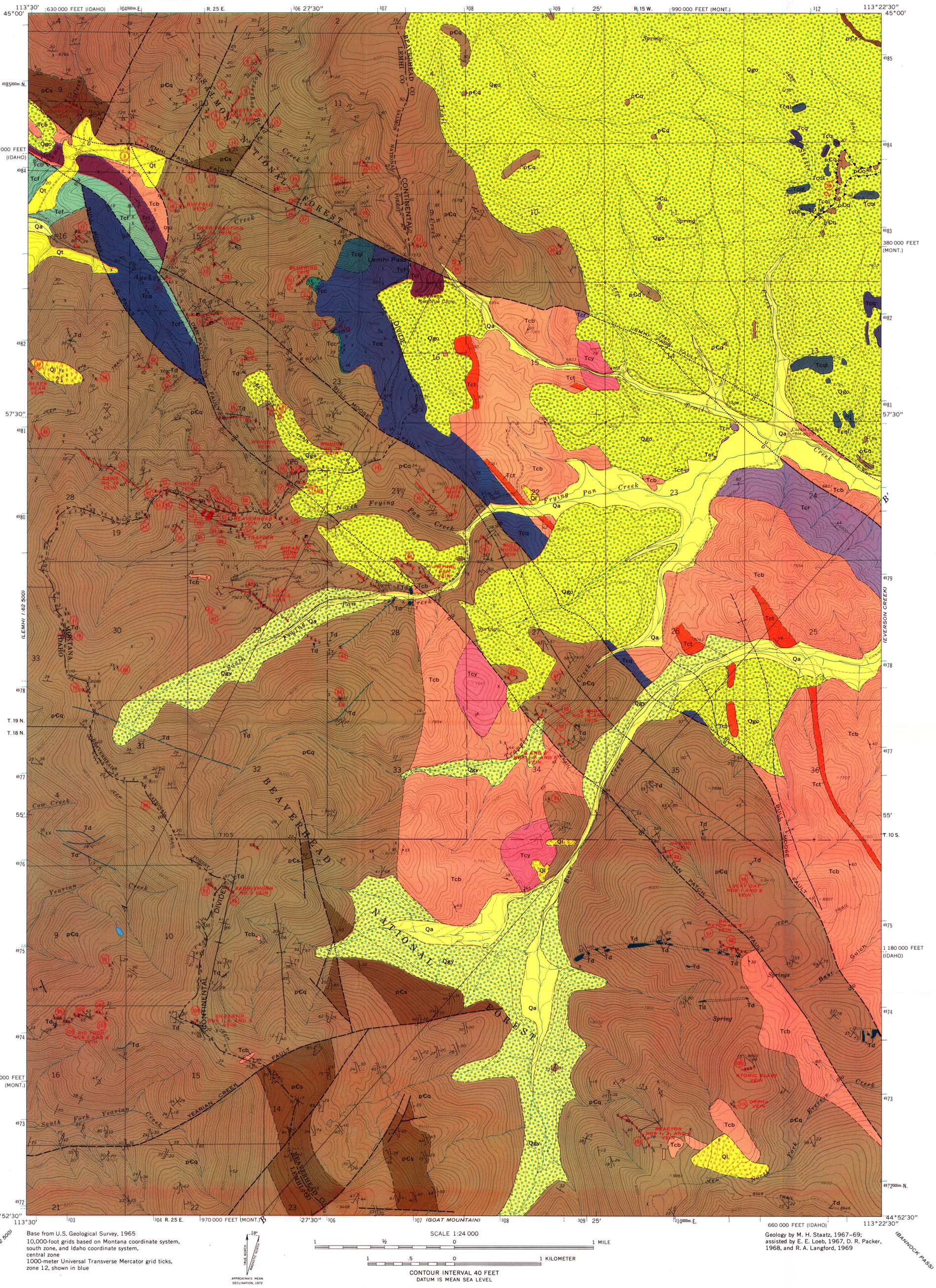


Base from U.S. Geological Survey, 1965
10,000-foot grids based on Montana coordinate system, south zone, and Idaho coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

APPROXIMATE MEAN DECLINATION, 1972
18°
TRUE NORTH
MAGNETIC NORTH

SCALE 1:24 000
1 ½ 0 1 MILE
1 .5 0 1 KILOMETER
CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

Geology by M. H. Staatz, 1967–69; assisted by E. E. Loeb, 1967, D. R. Packer, 1968, and R. A. Langford, 1969

EXPLANATION

QUATERNARY

- **Qa** — Alluvium
- **Ql** — Landslide deposits
- **Qt** — Terrace deposits
- **Qgy** — Younger glacial deposits
- **Qgo** — Older glacial deposits

TERTIARY

- **Td** — Diorite
- **Tcy** — Younger basalt
- **Tcr** — Tuff of Curtis Ranch
- **Tct, Tcb** — Basalt-rhyodacite sequence; Tct, *rhyolitic tuff bed*
- **Tcl** — Vitric tuff of Lemhi Pass
- **Tcf** — Conglomerate of Flume Creek
- **Tcq** — Quartzite-bearing rhyolite tuff
- **Tcc** — Basal conglomerate

Challis Volcanics

- **Tcql** — Quartz latite; *Relations with other volcanic units not known*

PRECAMBRIAN

- **p€q, p€s, p€q, p€s, p€q** — Belt Supergroup; p€q, *quartzite unit*; p€s, *siltite unit*

Contact
Dashed where approximately located; dotted where concealed

Fault, showing dip
Dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side

Thrust fault
Dashed where approximately located; dotted where concealed. Sawteeth on upper plate

Anticline
Showing position of the axial plane. Dashed where approximately located; short dashed where inferred

Syncline
Showing position of the axial plane. Dashed where approximately located; short dashed where inferred

Inclined — Overturned
Strike and dip of beds

Strike and dip of flow layers

Strike and dip of flow or fracture cleavage

Long trench

Prospect pit or small trench

Shaft

Open adit

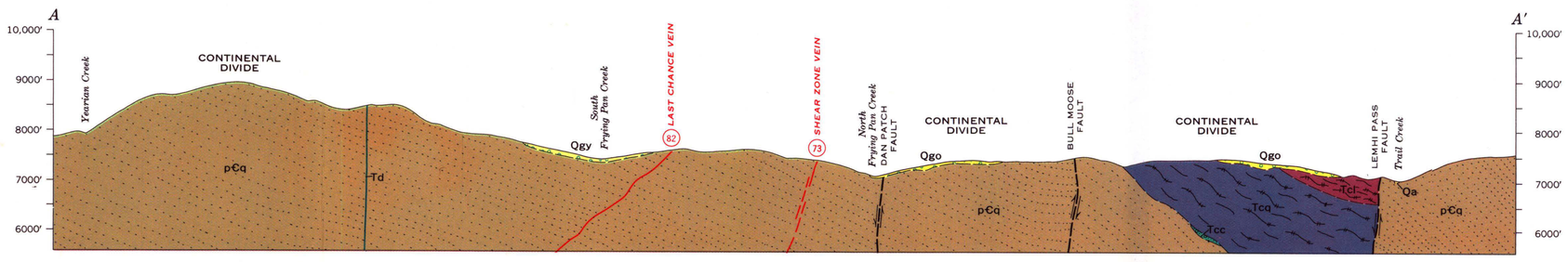
Caved adit

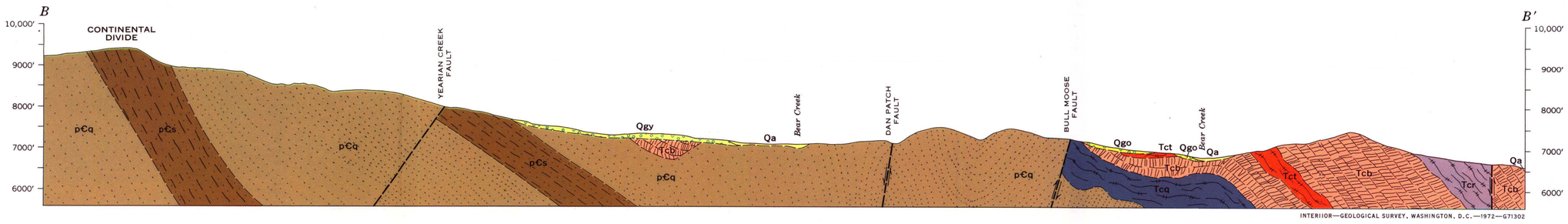
Locality number of vein
See tables 2 and 5

Thorium-bearing vein, showing dip
Dashed where approximately located

Copper-bearing veins that do not contain thorium, showing dip
Dashed where approximately located

Barren quartz vein, showing dip





INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1972—G71302

GEOLOGIC MAP AND SECTIONS OF THE LEMHI PASS QUADRANGLE, LEMHI COUNTY, IDAHO, AND BEAVERHEAD COUNTY, MONTANA