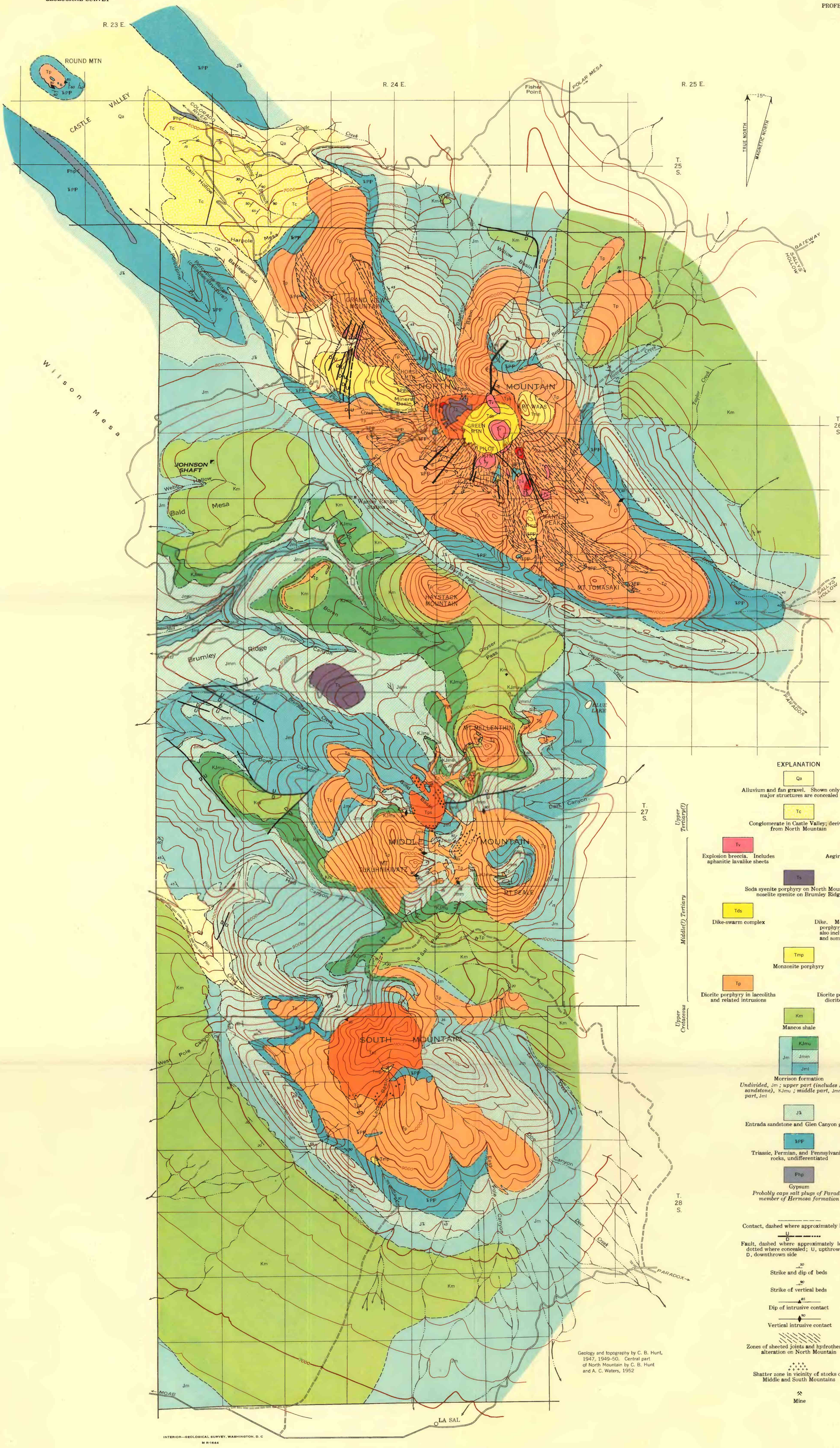

EXPLANATION

QUATERNARY

Qa — Alluvium and fan gravel. Shown only where major structures are concealed

TERTIARY OR QUATERNARY

Tc — Conglomerate in Castle Valley; derived from North Mountain

TERTIARY

Upper Tertiary(?)

Tv — Explosion breccia. Includes aphanitic lavalike sheets

Tg — Aegirine granite porphyry

Middle(?) Tertiary

Ts — Soda syenite porphyry on North Mountain; noselite syenite porphyry on Brumley Ridge

Tds — Dike-swarm complex

Tq — Dike. Mostly soda-rich syenite porphyry, in part feldspathoidal; also includes monzonite porphyry and some soda rhyolite porphyry

Tmp — Monzonite porphyry

Tp — Diorite porphyry in laccoliths and related intrusions

Tps — Diorite porphyry in stocks; metadiorite on North Mountain

CRETACEOUS

Upper Cretaceous

Km — Mancos shale

JURASSIC AND CRETACEOUS

Jm — Morrison formation
Undivided, Jm *; upper part (includes Dakota sandstone),* KJmu *; middle part,* Jmm *; lower part,* Jml

KJmu / Jmm / Jml

TRIASSIC AND JURASSIC

Jk — Entrada sandstone and Glen Canyon group

PENNSYLVANIAN, PERMIAN AND TRIASSIC

PPP — Triassic, Permian, and Pennsylvanian rocks, undifferentiated

PENNSYLVANIAN

Php — Gypsum
Probably caps salt plugs of Paradox member of Hermosa formation

Contact, dashed where approximately located

Fault, dashed where approximately located, dotted where concealed; U, upthrown side; D, downthrown side

Strike and dip of beds

Strike of vertical beds

Dip of intrusive contact

Vertical intrusive contact

Zones of sheeted joints and hydrothermal alteration on North Mountain

Shatter zone in vicinity of stocks on Middle and South Mountains

Mine

Geology and topography by C. B. Hunt, 1947, 1949–50. Central part of North Mountain by C. B. Hunt and A. C. Waters, 1952

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C
M R-1644

GEOLOGIC MAP OF LA SAL MOUNTAINS, UTAH

Scale 1:63,360

1 0 5 Miles

Contour interval 200 feet