

EXPLANATION

Qs
Sedimentary deposits
Unconsolidated surficial deposits of clay, silt, sand, gravel, and boulders in flood plains, playas, valleys, washes, fans, and craters

Qba
Basaltic ejecta aprons
Black and red basaltic ash, lapilli, bombs, and blocks with rare fragments of Tertiary ignimbrites; older, intermediate, and younger age deposits cannot be differentiated on the basis of lithology

Qm
Maar ejecta rims
Loose to consolidated ejecta deposits of coarsely bedded palagonite tuff with fragments as large as boulder size of basalt and Tertiary ignimbrites

Qbc
Cinder cones
Basaltic ash, lapilli, bombs, blocks, and interbedded flows of dense to vesicular scoriaceous basalt; Tertiary ignimbrite fragments sparse

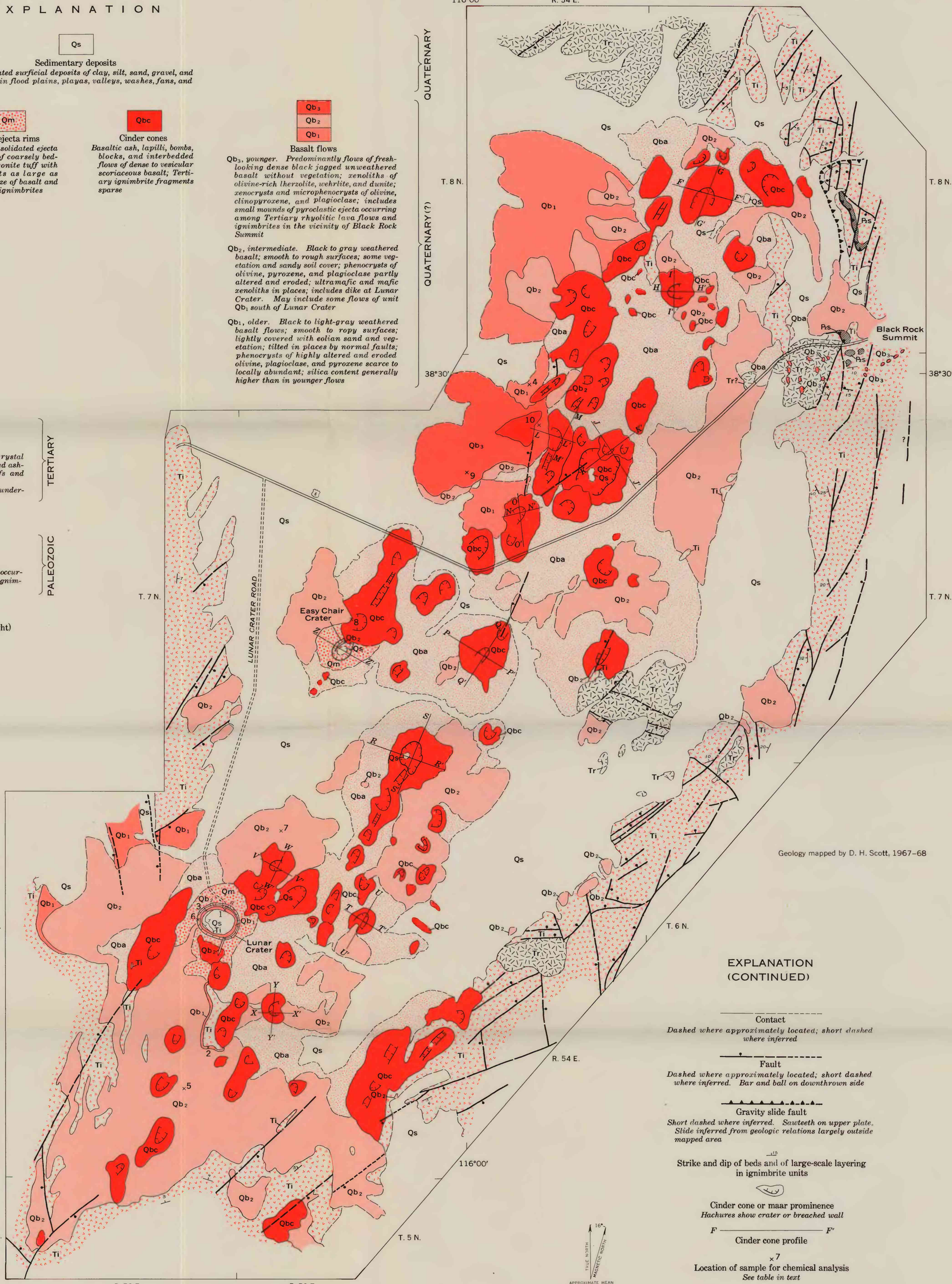
Basalt flows
Qb₃
Qb₂
Qb₁
Qb₃, younger. Predominantly flows of fresh-looking dense black jagged unweathered basalt without vegetation; xenoliths of olivine-rich thersolite, wehrlite, and dunite; xenocrysts and microphenocrysts of olivine, clinopyroxene, and plagioclase; includes small mounds of pyroclastic ejecta occurring among Tertiary rhyolitic lava flows and ignimbrites in the vicinity of Black Rock Summit
Qb₂, intermediate. Black to gray weathered basalt; smooth to rough surfaces; some vegetation and sandy soil cover; phenocrysts of olivine, pyroxene, and plagioclase partly altered and eroded; ultramafic and mafic xenoliths in places; includes dike at Lunar Crater. May include some flows of unit Qb₁ south of Lunar Crater
Qb₁, older. Black to light-gray weathered basalt flows; smooth to roopy surfaces; lightly covered with eolian sand and vegetation; tilted in places by normal faults; phenocrysts of highly altered and eroded olivine, plagioclase, and pyroxene scarce to locally abundant; silica content generally higher than in younger flows

UNCONFORMITY
Ti
Ignimbrite and rhyolite flows
Ti, ignimbrite, rhyolitic to andesitic crystal vitric to vitric; welded and nonwelded ash-flow tuffs and minor air-fall tuffs and water-laid sedimentary rocks
Tr, rhyolitic lava flows overlying and underlying ignimbrite sequence

UNCONFORMITY
Ps
Sedimentary rocks
Dolomite and quartzite in megabreccias occurring as gravity slides over Tertiary ignimbrites

TERTIARY
PALEOZOIC

(Explanation continued at lower right)



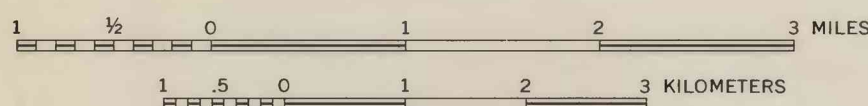
Geology mapped by D. H. Scott, 1967-68

EXPLANATION (CONTINUED)

- Contact**
Dashed where approximately located; short dashed where inferred
- Fault**
Dashed where approximately located; short dashed where inferred. Bar and ball on downthrown side
- Gravity slide fault**
Short dashed where inferred. Sawteeth on upper plate. Slide inferred from geologic relations largely outside mapped area
- Strike and dip of beds and of large-scale layering in ignimbrite units**
- Cinder cone or maar prominence**
Hachures show crater or breached wall
- Cinder cone profile**
- Location of sample for chemical analysis**
x 7
See table in text

Base from U.S. Geological Survey Tonopah and Lund 1:250,000, 1956-62

SCALE 1:62 500



GEOLOGIC MAP OF THE LUNAR CRATER VOLCANIC FIELD, NYE COUNTY, NEVADA