CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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9

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PRELIMINARY GEOLOGIC MAP OF LYON, DOUGLAS, ORMSBY AND PART OF WASHOE COUNTIES, NEVADA

By

James G. Moore

MINERAL INVESTIGATIONS
FIELD STUDIES MAP MF-80

PUBLISHED BY THE U. S. GEOLOGICAL SURVEY
WASHINGTON, D.C.
1961

MAP MF-80

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH
THE NEVADA BUREAU OF MINES

MINERAL INVESTIGATIONS
FIELD STUDIES MAP MF-80

INDEX OF PREVIOUS GEOLOGIC MAPPING IN LYON, DOUGLAS, AND ORMSBY COUNTIES

(Numbers correspond to those shown on index map)

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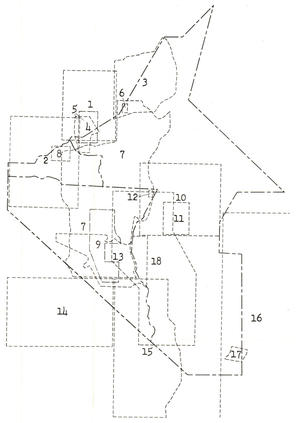


Pleistocene and Recent
Miocene and Pliocene
Oligocene(?)

EXPLANATION

Qal | Qp — Alluvium
Qal, mainly alluvial fan gravel, stream-laid gravel, sand, and silt, some talus material, and dune sand.
Qp, fine sand, silt, and clay of river flood plains, and playa clay and sand

Qgr — Older Alluvium
Predominantly fanglomerate and pediment-gravel, but includes terrace gravel and lake beds. Pediment gravel commonly caps poorly consolidated Tertiary sediments

QTb — Basalt
Predominantly thin lava flows with interbeds of scoriaceous basalt breccia and diatomaceous sediments. Includes McClellan Peak and Lousetown formations. In part younger than Qgr

Ta — Andesite and dacite
Flow breccias, lava flows, and agglomerates with interbedded sediments. Locally includes basaltic and rhyolitic rocks. Includes Kate Peak and Alta formations, and Chloropagus formation of Axelrod (1956)

Ts — Sedimentary rocks
Lacustrine and fluvatile sediments. Sandstone, mudstone, shale, marl, diatomite, limestone, and calcarious tufa. Interbedded tuffaceous rocks, lava flows and breccias. Includes Truckee formation and Aldrich Station, Coal Valley, and Morgan Ranch formations of Axelrod (1956)

Tr — Rhyolite
Rhyolitic tuffs, flows, and intrusions. Relation to Hartford Hill rhyolite tuff is uncertain

Th — Hartford Hill rhyolite tuff
Widespread biotite rhyolite pumice tuff-breccia and welded tuff. Welded, black, glassy basal layer is locally present

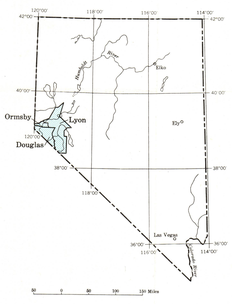
Kgp | Kpg | Kg — Granitic rocks
Kgp, granite porphyry
Kpg, porphyritic quartz monzonite
Kg, undivided, non-porphyritic quartz monzonite, granodiorite, and hybrid mafic rocks. In general Kpg is younger than Kg, and Kgp is younger than Kpg

JTv — Metavolcanic rocks
Andesite breccias, tuffs, and flows; basalt; and rhyolite; with interbedded volcanic-derived sedimentary rocks and limestones. Metamorphosed to greenschist or higher metamorphic facies

JTs — Metasedimentary rocks
Shale, slate, tuffaceous siltstone, sandstone, and graywacke largely derived from volcanic rocks. Interbeds of conglomerate, limy shale, limestone, dolomite, and gypsum

QUATERNARY
TERTIARY
CRETACEOUS
TRIASSIC AND JURASSIC

Contact
Highest level of late Pleistocene pluvial lakes shown by dash-dot line; lake-beds commonly present below this line
Fault
Dashed where approximately located; ball indicates downthrown side
60 Strike and dip of beds
Estimated when shown with no dip number
80 Strike of vertical beds
35 Strike and dip of foliation or flow structure
Estimated when shown with no dip number
Hot Spring



INDEX MAP OF NEVADA SHOWING LOCATION OF LYON, DOUGLAS, AND ORMSBY COUNTIES

Base from Army Map Service, 1:250,000 series, Reno (NJ-11-1) 1959 and Walker Lake (NJ-11-4) preliminary revised edition

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C. 10343

Geology mapped and compiled in 1958 and 1959

PRELIMINARY GEOLOGIC MAP OF LYON, DOUGLAS, ORMSBY AND PART OF WASHOE COUNTIES, NEVADA

By
James G. Moore

SCALE 1:200000

10 5 0 10 MILES

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES IN LAKE TAHOE IN FEET—DATUM IS LOWEST LAKE LEVEL—6223 FEET

1961

MINERAL INVESTIGATIONS
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