

## EXPLANATION

**Qal** 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

**QTao** Older alluvium  
Predominantly thin lava flows with interbeds of scoriaceous basal breccia and diatomaceous sediments. Includes terrace gravel and late Pleistocene lake beds. Pediment gravel commonly caps poorly consolidated Tertiary sediments

**QTb** Basalt  
Predominantly thin lava flows with interbeds of scoriaceous basal breccia and diatomaceous sediments. Includes McClellan Peak and Lousetown Formations. In part younger than older alluvium

**Ta** Andesitic rocks  
Flow breccias, lava flows, and agglomerates with interbedded sediments. Locally includes basaltic and rhyolitic rocks. Includes Alta and Kate Peak Formations, and Chloropargas Formation of Axelson (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** Granitic rocks  
Kgp, granite porphyry  
Kpg, porphyritic quartz monzonite  
Kg, undivided nonporphyritic quartz monzonite, granodiorite, and monzonite rocks. In general, porphyritic quartz monzonite is younger than undivided granitic rocks and older than granite porphyry

**JTs** Metasedimentary rocks  
Shale, slate, infusorial silicate, sandstone, and pebbly shale largely derived from volcanic rocks. Interbeds of conglomerate, limy shale, limestone, dolomite, and gypsum

**JTrv** Metavolcanic rocks  
Andesitic breccias, tuffs, and flows; basalt; and rhyolite; with interbedded volcanic-derived sedimentary rocks and limestone. Metamorphosed to greenish or higher metamorphic facies

**Contact**  
Dashed where approximately located; bold indicates downthrow side

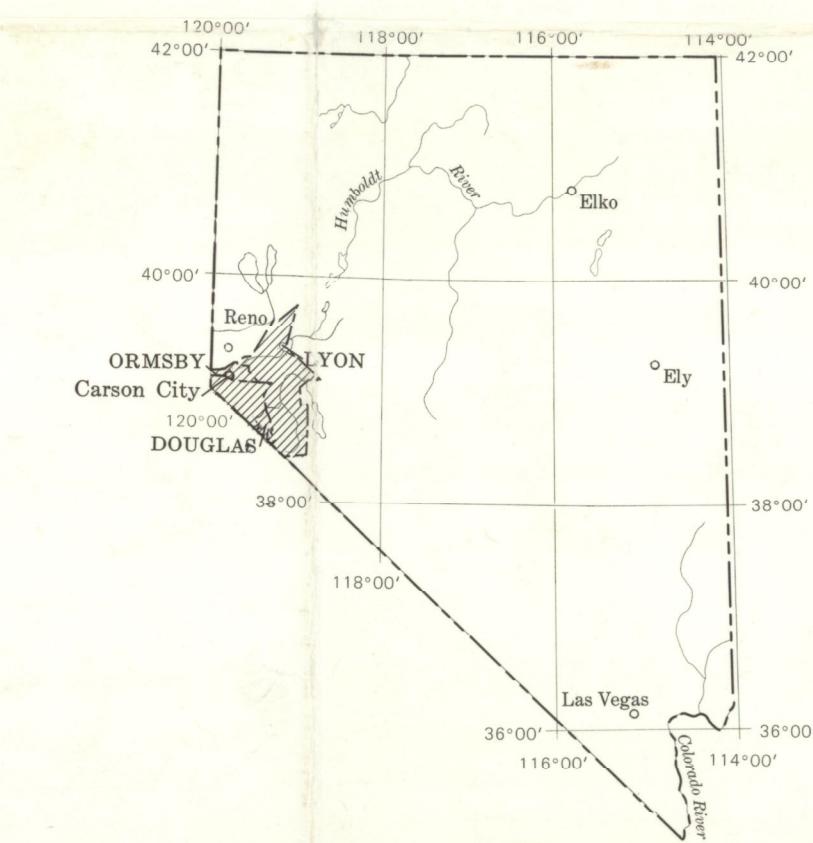
**Fault**  
Strike and dip of beds  
Estimated when shown with no dip number

**Strike of vertical beds**

**Strike and dip of foliation or flow structure**  
Estimated when shown with no dip number

**Hot Spring**  
Highest level of late Pleistocene pluvial lakes shown by dashed line; lake-beds commonly present below this line

**Hot Spring**



INDEX MAP OF LYON, DOUGLAS, AND ORMSBY COUNTIES

## GEOLOGIC MAP OF LYON, DOUGLAS, AND ORMSBY COUNTIES, NEVADA

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