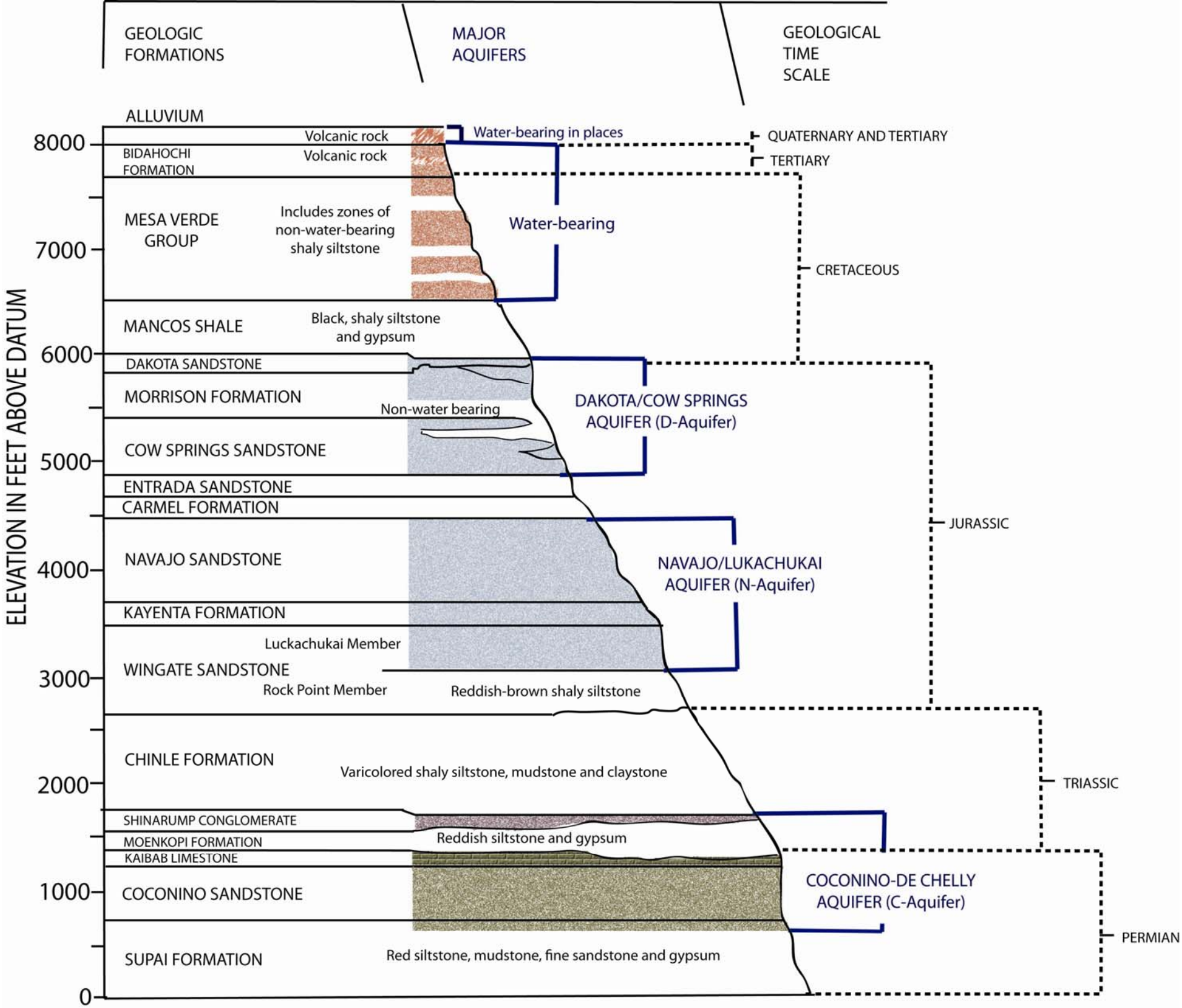
GEOLOGIC FORMATIONS
MAJOR AQUIFERS
GEOLOGICAL TIME SCALE
ELEVATION IN FEET ABOVE DATUM
8000
7000
6000
5000
4000
3000
2000
1000
0
ALLUVIUM
Volcanic rock
Volcanic rock
BIDAHOCHI FORMATION
MESA VERDE GROUP
Includes zones of non-water-bearing shaly siltstone
MANCOS SHALE
Black, shaly siltstone and gypsum
DAKOTA SANDSTONE
MORRISON FORMATION
Non-water bearing
COW SPRINGS SANDSTONE
ENTRADA SANDSTONE
CARMEL FORMATION
NAVAJO SANDSTONE
KAYENTA FORMATION
Luckachukai Member
WINGATE SANDSTONE
Rock Point Member
Reddish-brown shaly siltstone
CHINLE FORMATION
Varicolored shaly siltstone, mudstone and claystone
SHINARUMP CONGLOMERATE
MOENKOPI FORMATION
Reddish siltstone and gypsum
KAIBAB LIMESTONE
COCONINO SANDSTONE
SUPAI FORMATION
Red siltstone, mudstone, fine sandstone and gypsum
Water-bearing in places
Water-bearing
DAKOTA/COW SPRINGS AQUIFER (D-Aquifer)
NAVAJO/LUKACHUKAI AQUIFER (N-Aquifer)
COCONINO-DE CHELLY AQUIFER (C-Aquifer)
QUATERNARY AND TERTIARY
TERTIARY
CRETACEOUS
JURASSIC
TRIASSIC
PERMIAN