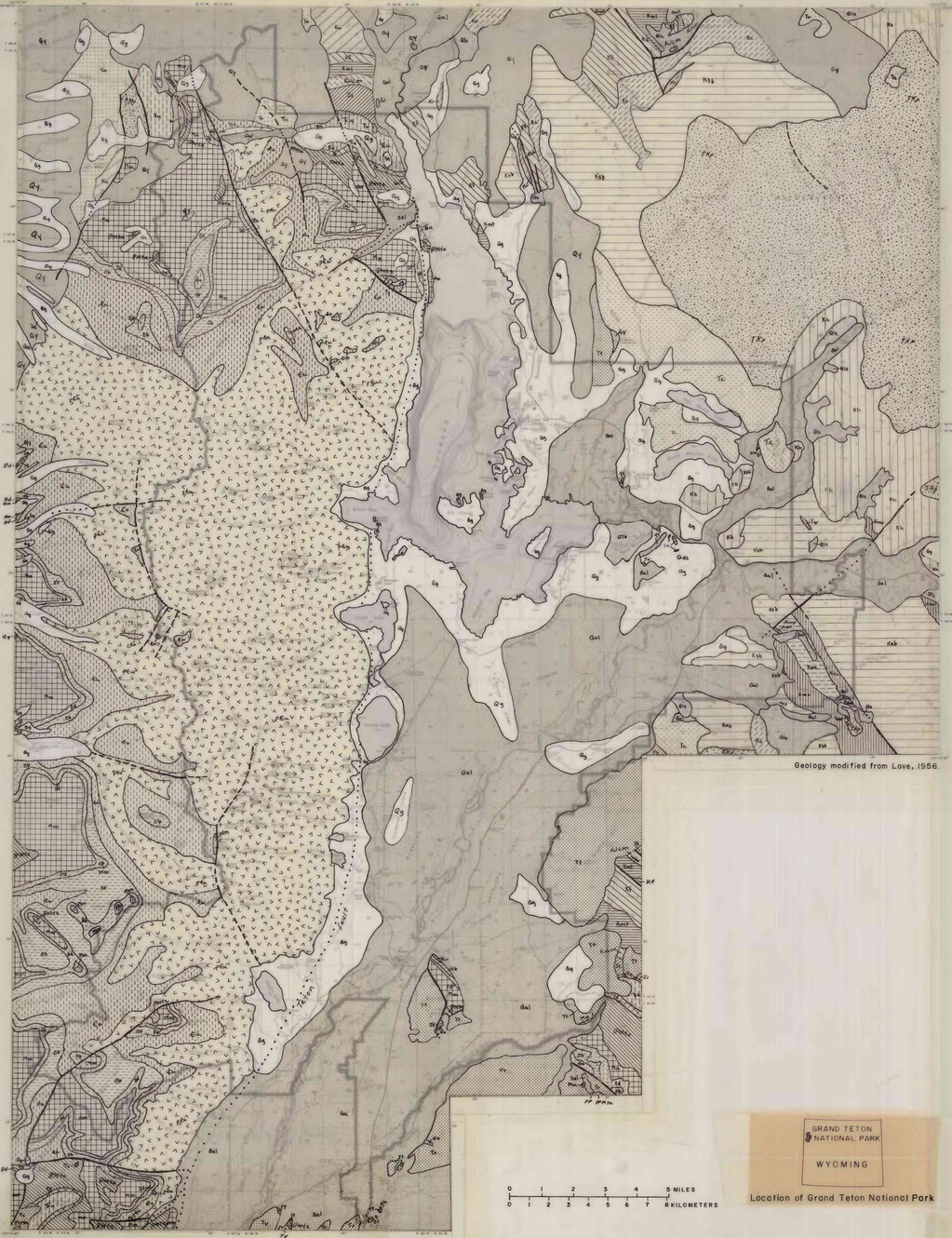

Geology modified from Love, 1956.

Location of Grand Teton National Park

Base modified from U.S. Geological Survey topographic map of Grand Teton National Park, scale 1:62,500, 1968.

Explanation

Qal — Alluvium and glacial-outwash deposits
Silt, sand, gravel, and cobbles
May yield as much as 1,000 gpm of water per well.

Qls — Landslide deposits
Heterogeneous mass ranging from clay to boulders
Probably would not yield more than a few gallons per minute of water per well.

Qg — Glacial-moraine deposits
Poorly sorted material ranging from clay to boulders
May yield as much as 100 gpm of water per well from sand and gravel.

Qy — Yellowstone Group
Rhyolitic lava flows and tuffs
May yield a few tens of gallons per minute of water per well from porous and fractured zones.

QTb — Bivouac Formation
Poorly cemented conglomerate with a rhyolitic welded tuff
May yield a few tens of gallons per minute of water per well from conglomerate.

Tt — Teewinot Formation
Mostly limestone, sandstone, claystone, and tuff
May yield as much as 100 gpm of water per well from fractures and solution channels in limestone.

Tc — Colter Formation
Volcanic conglomerate, tuff, sandstone, claystone, basalt, and andesite
May yield a few gallons per minute of water per well from conglomerate and sandstone and from fractures in basalt and andesite.

Ta — Absaroka Volcanic Supergroup
Andesitic, basaltic, and dacitic volcaniclastic rocks
Probably would not yield more than a few gallons per minute of water per well.

Tkp — Pinyon Conglomerate
Conglomerate, sandstone, claystone, and coal
May yield a few tens of gallons per minute of water per well.

Tv — Volcanic rocks undivided
May yield a few gallons per minute of water per well from fractures.

Kh — Harebell Formation
Conglomerate, sandstone, siltstone, and shale
May yield a few tens of gallons per minute of water per well from conglomerate and sandstone.

Kmc — Meeteetse Formation
Sandstone, siltstone, shale, coal, and bentonite
May yield a few tens of gallons per minute of water per well from sandstone.

Kmv — Mesaverde Formation
Sandstone and shale
May yield a few tens of gallons per minute of water per well from sandstone.

Ksb — Unnamed lenticular sandstone, shale, and coal and Bacon Ridge Sandstone
Sandstone, shale, and coal
May yield a few tens of gallons per minute of water per well from sandstone.

Kc — Cody Shale
Shale and thin beds of sandstone and bentonite
Probably would not yield more than a few gallons per minute of water per well.

Kf — Frontier Formation
Sandstone, shale, and bentonite
May yield a few tens of gallons per minute of water per well from sandstone.

Kmt — Mowry and Thermopolis Shales undivided
Shale, sandstone, and bentonite
May yield a few tens of gallons per minute of water per well from sandstone beds in Thermopolis Shale.

JKcm — Cloverly and Morrison Formations undivided
Sandstone and claystone
Probably would not yield more than a few gallons per minute of water per well.

Js — Sundance Formation
Sandstone, shale, and limestone
May yield a few tens of gallons per minute of water per well from sandstone and from fractures and solution channels in limestone.

Jtrn — Nugget Sandstone
Sandstone
May yield a few tens of gallons per minute of water per well.

Kg — Cretaceous rocks undivided
May yield a few tens of gallons per minute of water per well from sandstone and conglomerate.

TRu — Triassic rocks undivided
Siltstone and shale
Probably would not yield more than a few gallons per minute of water per well.

Ph — Phosphoria Formation
Dolomite and shale
May yield as much as 10 gpm of water per well from fractures and solution channels in dolomite.

PPMa — Tensleep Sandstone and Amsden Formation undivided
Sandstone and shale
May yield a few tens of gallons per minute of water per well from sandstone.

Mm — Madison Limestone
Limestone and thin beds of shale
May yield several hundred gallons per minute of water per well from solution channels in limestone.

Dd — Darby Formation
Shale and dolomite
Probably would not yield more than a few gallons per minute of water per well.

Og — Bighorn Dolomite
Dolomite
May yield several tens of gallons per minute of water per well from fractures and solution channels.

Cm — Cambrian rocks undivided
Includes Gallatin Limestone, Gros Ventre Formation, and Flathead Sandstone
Limestone, sandstone, siltstone, and shale
May yield several tens of gallons per minute of water per well from sandstone and solution channels in limestone.

pCu — Precambrian rocks undivided
Mostly gneiss, schist, and granite
May yield a few tens of gallons per minute of water per well from fractures.

Contact

Fault
Dashed where approximately located; dotted where concealed

Quaternary
Quaternary or Tertiary
Tertiary
Tertiary and Cretaceous
CENOZOIC
MESOZOIC
Cretaceous
Cretaceous and Jurassic
Jurassic
Jurassic(?) and Triassic(?)
MESOZOIC
Triassic
Permian
Pennsylvanian and Mississippian
Mississippian
Devonian
Ordovician
Cambrian
PALEOZOIC

Figure 3.--Geologic map of Grand Teton National Park and vicinity.