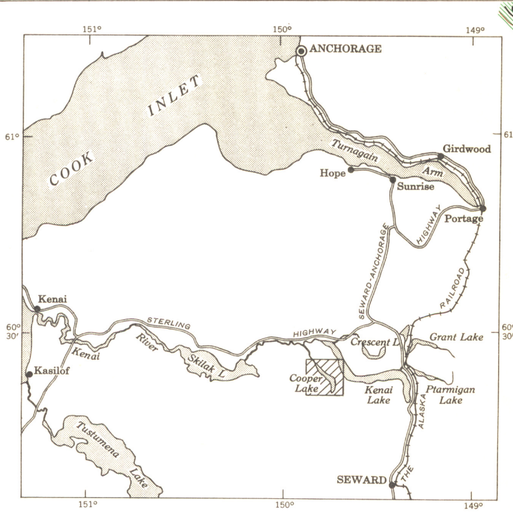
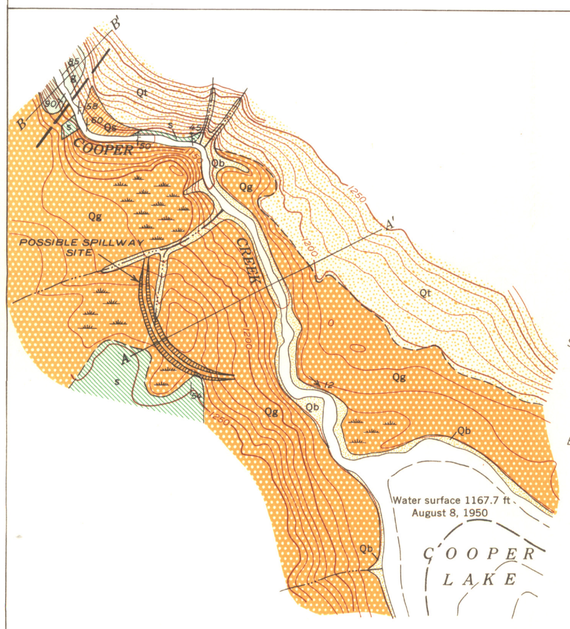


INDEX MAP



COOPER LAKE DAM SITE

400 0 1200 Feet

Contour interval 10 feet
Datum is mean sea level

EXPLANATION

UNCONSOLIDATED DEPOSITS

QUATERNARY

Qb — Beach and stream deposits
Predominantly subrounded to rounded gravel and cobbles

Qt — Talus and alluvium
Poorly sorted, unstratified angular sand, gravel, cobbles, and boulders

Qg — Glaciofluvial deposits
Rudely stratified angular to subrounded gravel, cobbles, and boulders in a matrix of silty sand

Qs — Slump block
Slate showing variable dips and strikes due to slump and surface creep along creek bank

BEDROCK

MESOZOIC

s — Slate
Black, thinly bedded and slabby slate with minor amounts of graywacke in beds less than 2 inches thick

g — Graywacke
Gray to black in color, fine- to medium-grained, hard and massive

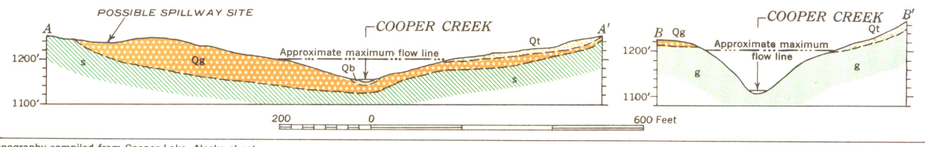
Contact, dashed where approximately located

Fault, approximately located

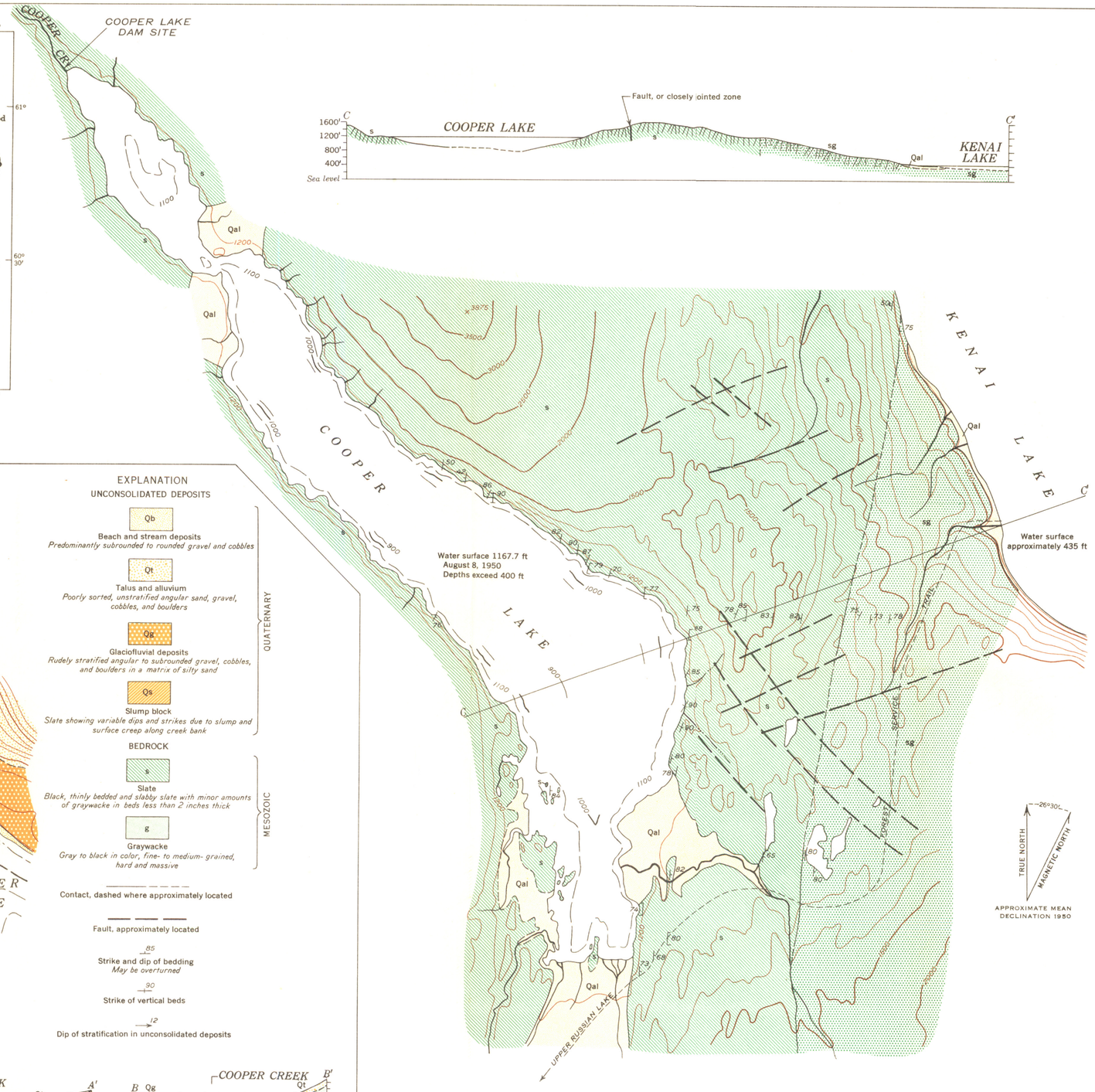
85 — Strike and dip of bedding
May be overturned

90 — Strike of vertical beds

12 — Dip of stratification in unconsolidated deposits



200 0 600 Feet



EXPLANATION

UNCONSOLIDATED DEPOSITS

QUATERNARY

Qal — Alluvium
Predominantly sand, gravel, and cobbles

BEDROCK

MESOZOIC

s — Predominantly slate
Black, thinly bedded and slabby slate with subordinate amounts of graywacke in relatively thin lenses

sg — Interbedded graywacke and slate
Hard, massive graywacke in beds up to 500 feet thick, interbedded with variable amounts of slate

Contact, dashed where approximately located

Possible fault or closely jointed zone indicated by linear topographic depression

75 — Strike and dip of bedding
May be overturned

90 — Strike of vertical beds

74 — Strike and dip of slaty cleavage

90 — Strike of vertical cleavage

TRUE NORTH
MAGNETIC NORTH
26°30'
APPROXIMATE MEAN DECLINATION 1950

Topography compiled from Cooper Lake, Alaska sheet, scale 1:24,000, U. S. Geological Survey; the Cooper Lake quadrangle, scale 1:50,000, Corps of Engineers, U. S. Army; and aerial photographs, scale 1:40,000

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C. M R-7875

Geology by George Plafker, August 1950

GEOLOGIC MAPS AND SECTIONS OF THE DAM SITE, TUNNEL SITE, AND PART OF RESERVOIR SITE AT COOPER LAKE, ALASKA

1 0 2 Miles

5000 0 10,000 Feet

Contour interval 100 feet below 1500 feet and 500 feet above
Datum is mean sea level