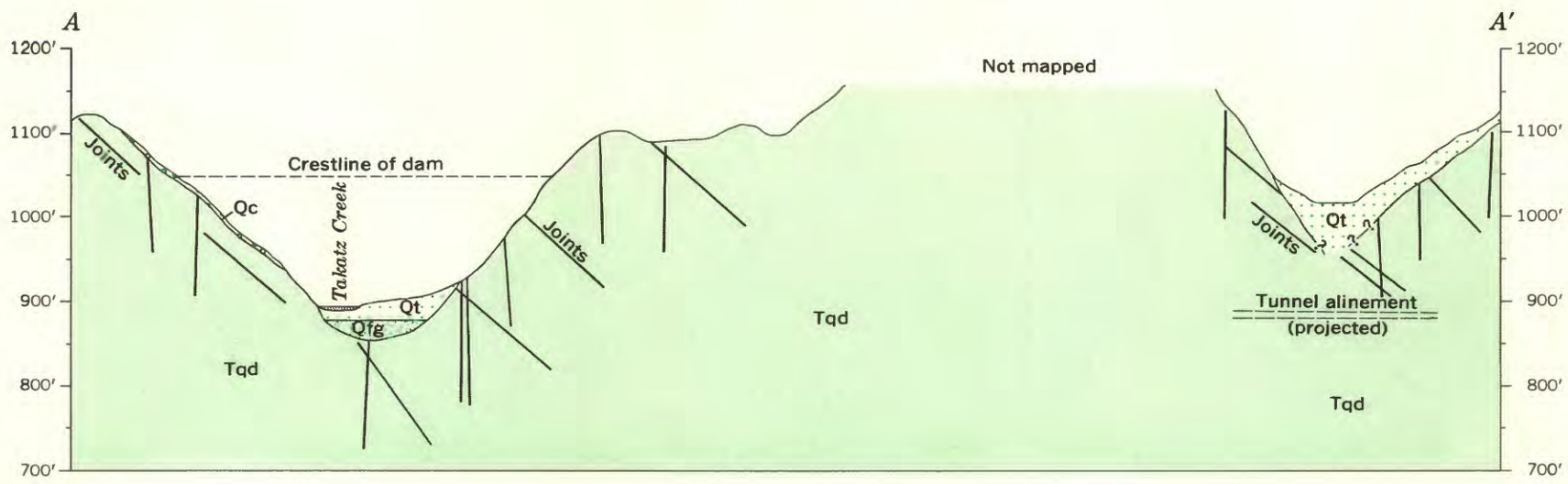
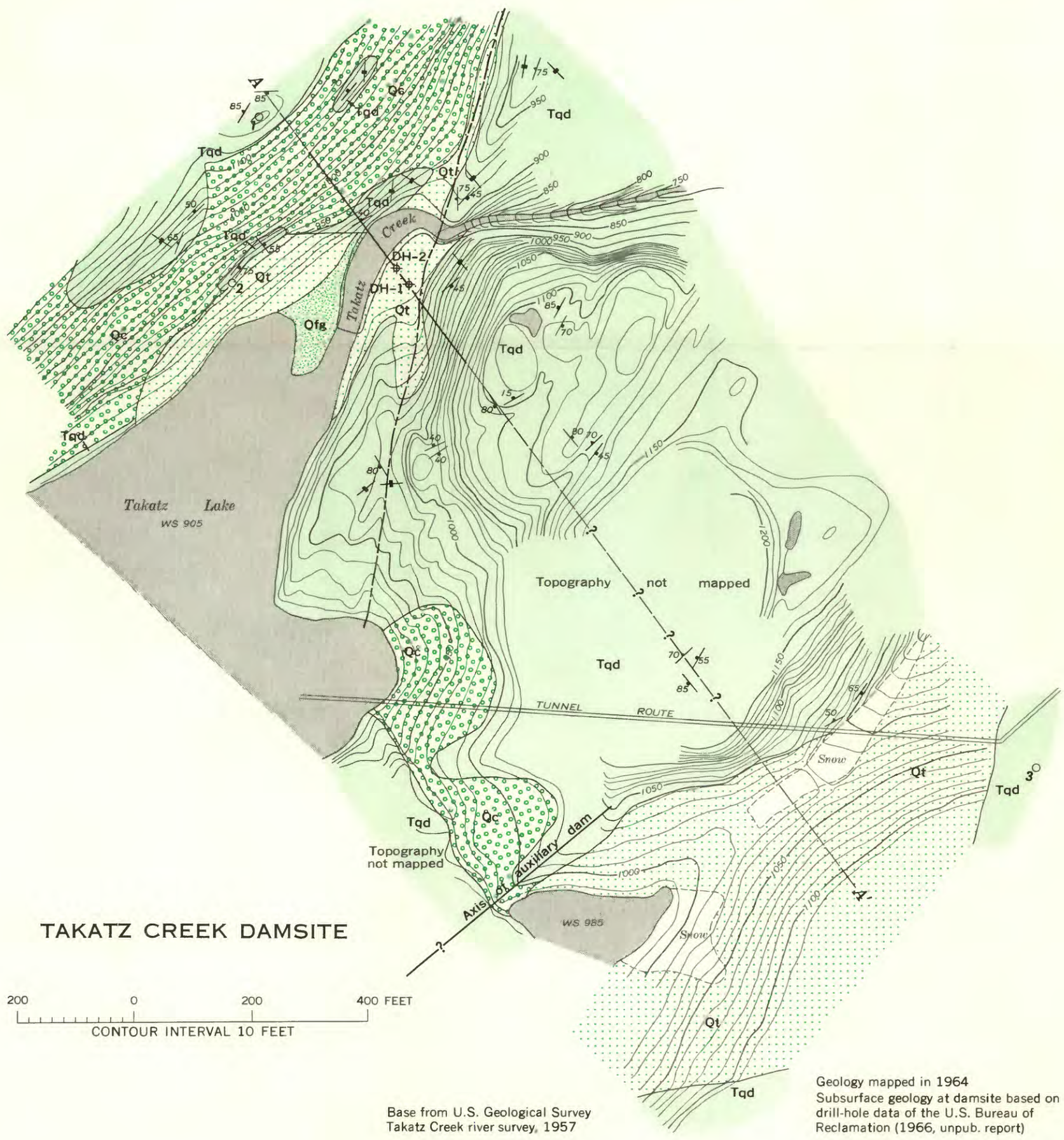


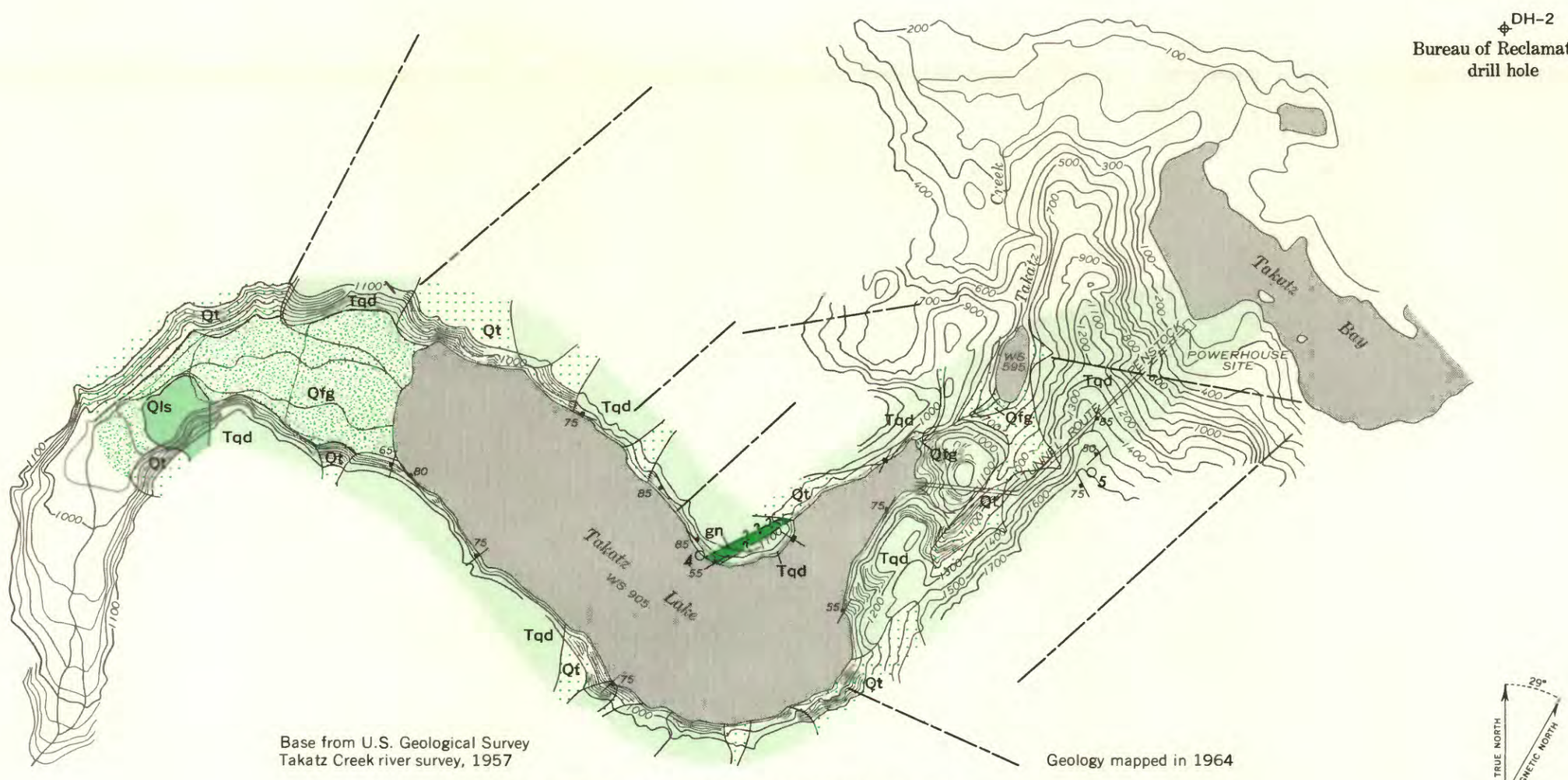


TAKATZ CREEK DAMSITE

200 0 200 400 FEET
CONTOUR INTERVAL 10 FEET

Base from U.S. Geological Survey
Takatz Creek river survey, 1957

Geology mapped in 1964
Subsurface geology at damsite based on drill-hole data of the U.S. Bureau of Reclamation (1966, unpub. report)



Base from U.S. Geological Survey
Takatz Creek river survey, 1957

Geology mapped in 1964

TAKATZ LAKE RESERVOIR SITE

1 0 1 MILE
5000 0 5000 FEET
CONTOUR INTERVALS 20 AND 100 FEET

TRUE NORTH
MAGNETIC NORTH
29°
APPROXIMATE MEAN DECLINATION, 1970

EXPLANATION

SURFICIAL DEPOSITS

Qc — Colluvium and soil cover

Qls — Landslide debris
Large angular blocks of quartz diorite as much as 50 feet in diameter

Qt — Talus
Angular blocks of quartz diorite as much as 10 feet in diameter; voids partly filled with fine silty sand near channel of Takatz Creek

Qfg — Fluvioglacial deposits
Round to angular gravel, sand, and silt. Probably sorted and stratified in delta area above head of lake. Unsorted coarse angular gravel derived from adjoining talus slopes and some fine silty sand in voids near outlet of Takatz Lake

QUATERNARY

UNCONFORMITY

IGNEOUS ROCKS

Tqd — Quartz diorite
Fine- to coarse-grained inhomogeneous crystalline rock; texture ranges from gneissic to granitic. Contains numerous inclusions of gneiss

Eocene — TERTIARY

METAMORPHIC ROCKS

gn — Gneiss
Large body of strongly banded gneiss on north shore of lake

PRE-TERTIARY

Approximate contact
Queried where doubtful

Conspicuous lineaments on aerial photographs
Probably represent zones of closely spaced joints

50 — Strike and dip of foliation

75 — Strike and dip of joints

Strike of vertical joints

A——?——A' — Line of cross section and axis of dam (solid portion)
Axis queried where topography is lacking

3 — Sample locality

DH-2 — Bureau of Reclamation drill hole

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1970—G70253

GEOLOGIC MAPS OF THE TAKATZ LAKE RESERVOIR SITE AND OF THE TAKATZ CREEK DAMSITE, SOUTHEASTERN ALASKA