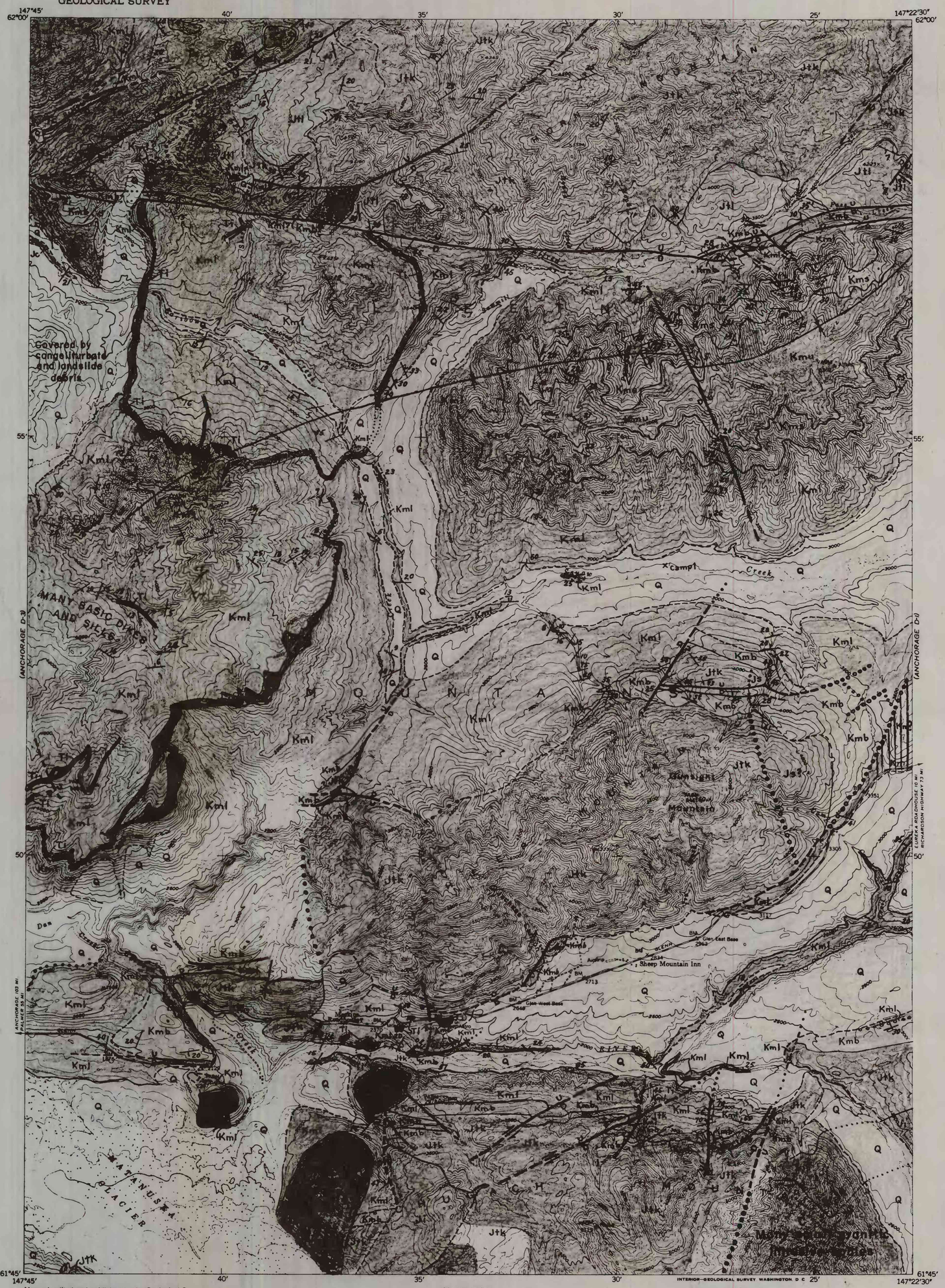
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

53-79



Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by multiplex methods
Aerial photographs taken September 1948
Universal Transverse Mercator projection, zone 6
1927 North American datum

SCALE 1:63360

CONTOUR INTERVAL 100 FEET
DOTTED LINES REPRESENT HALF-INTERVAL CONTOURS
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1951

ROAD CLASSIFICATION
ALL WEATHER ROADS — Hard-surface; Other ..... None
DRY WEATHER ROADS — Improved dirt; Unimproved dirt; Trails

Geology by Arthur Grantz
1952

FIG. 4. GEOLOGIC MAP OF ANCHORAGE (D-2) QUADRANGLE, ALASKA

Note: This map is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards and nomenclature.

EXPLANATION

QUATERNARY

BEDDED ROCKS

Q — Unconsolidated materials (Alluvium, talus, landslide debris, congeliturbate, glacial moraine, glacial outwash, and glacial-lake silt and clay)

TERTIARY

UNCONFORMITY

Tb — Basaltic lavas and tuffs

UNCONFORMITY

Tc — Conglomerate, sandstone, and siltstone (Thickness highly variable in area of map. Contains pieces of lignitized wood and thin beds of coal)

CRETACEOUS — Upper Cretaceous; Eocene

UNCONFORMITY

Kmu — Upper shale and siltstone member (Shale and silty shale with thin layers of arkosic sandstone)

Kms — Upper sandstone and siltstone member (Arkosic sandstone with beds of pebble conglomerate, siltstone, and shale)

Kml — Lower shale and siltstone member (Shale with numerous limestone concretions and a few thin beds of sandstone and siltstone)

Kmb — Basal sandstone member (Thickness highly variable in area of map. Arkosic sandstone with local shale and siltstone beds)

Km — Matanuska formation, undifferentiated

JURASSIC — Upper Jurassic; Middle Jurassic; Lower Jurassic

UNCONFORMITY

Jc — Chinitna formation (Siltstone and shale with numerous limestone concretions)

UNCONFORMITY

Jtl — Sandstone (Arkosic sandstone equivalent to the lower part of the Tuxedni formation. Includes a thin unit of shale conformably overlying the sandstone)

LOCAL UNCONFORMITY

Jtk — Talkeetna formation (Pyroclastics, flows, and tuffaceous sediments, principally marine but in part of fresh-water origin)

Js — Siltstone, claystone, and mudstone

CARBONIFEROUS(?)

PROBABLE UNCONFORMITY

C — Undifferentiated Carboniferous (?) rocks (Argillites and siliceous sediments, considerably altered)

TERTIARY

INTRUSIVE ROCKS

Intrusive rocks of Tertiary age (Dikes and sills of basic composition north of the Glenn Highway; porphyritic plugs of intermediate composition and a few dikes of basic composition south of the Glenn Highway)

JURASSIC

Ji — Granitic intrusives (Mainly quartz diorite)

30 — Strike and dip of beds

Anticline, showing trace of axial plane

Syncline, showing trace of axial plane

D U — Fault, dashed where inferred from field evidence, circles where inferred from aerial photographs or based on inferences unsupported by field evidence, dotted where concealed by Quaternary deposits.

Contact, dashed where inferred from field evidence or representing indefinite contacts, gradational contacts, or indefinite boundaries of sufficial deposits, circles where inferred from aerial photographs or based on inferences unsupported by field evidence, dotted where concealed by Quaternary deposits.