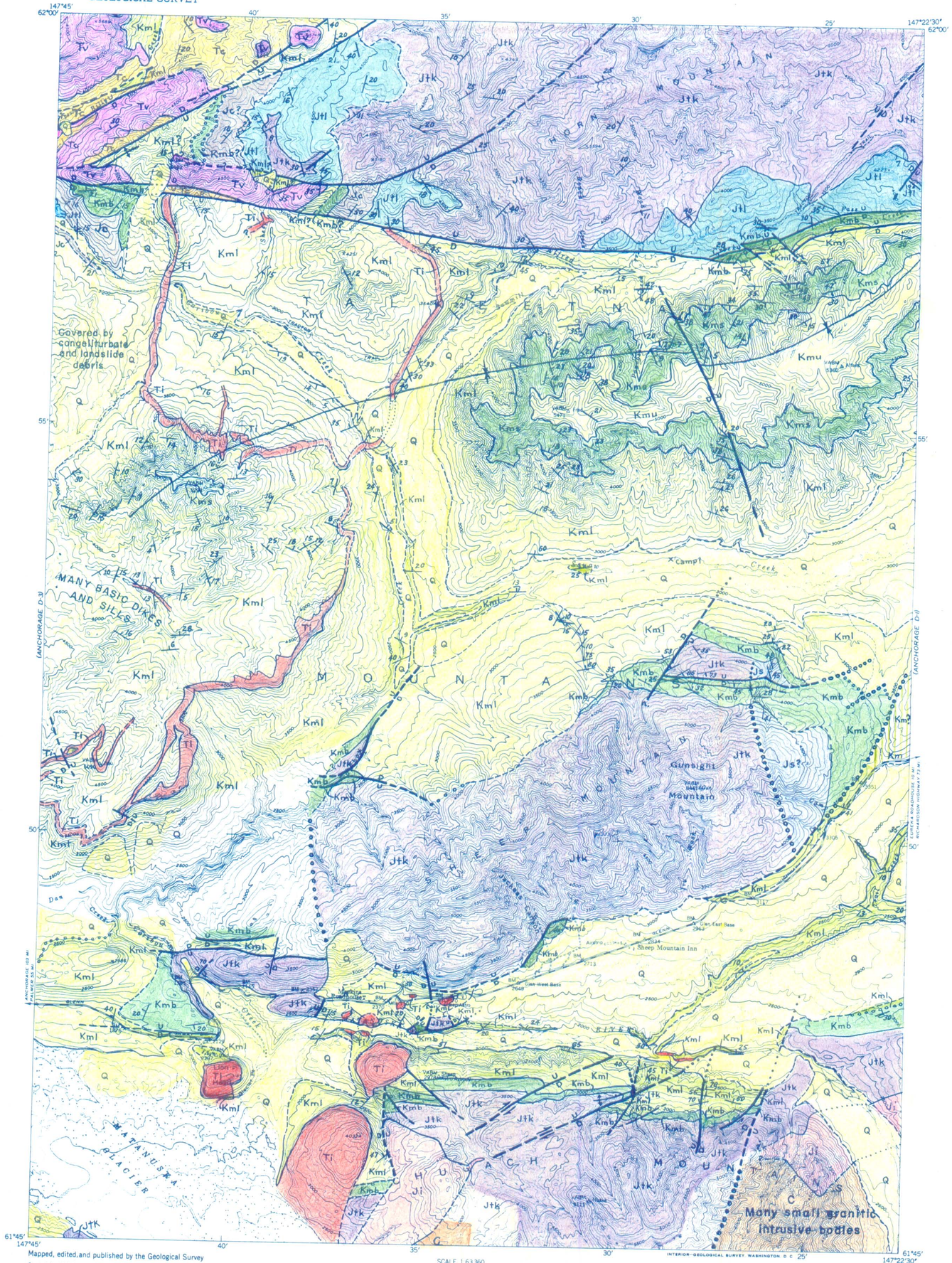
Nelchina # 82
7 fig 4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



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 1:63,360

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

APPROXIMATE MEAN
DECLINATION, 1951

ROAD CLASSIFICATION

ALL WEATHER ROADS		DRY WEATHER ROADS	
Hard-surface		Improved dirt	
Other		None	Unimproved dirt
		Trails	

Geology by Arthur Grantz
1952

EXPLANATION

BEDDED ROCKS

QUATERNARY

Q

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

UNCONFORMITY

TERTIARY

Tv

Basaltic lavas and tuffs

UNCONFORMITY

Eocene

Tc

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

UNCONFORMITY

CRETACEOUS

Upper Cretaceous

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

UNCONFORMITY

JURASSIC

Upper Jurassic

Jc

Chinitna formation
(Siltstone and shale with numerous limestone concretions)

UNCONFORMITY

Middle Jurassic

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

Lower Jurassic

Jtk

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

Js

Siltstone, claystone, and mudstone

PROBABLE UNCONFORMITY

CARBONIFEROUS(?)

C

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

INTRUSIVE ROCKS

TERTIARY

Ti

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

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 surficial deposits, circles where inferred from aerial photographs or based on inferences unsupported by field evidence, dotted where concealed by Quaternary deposits.

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.