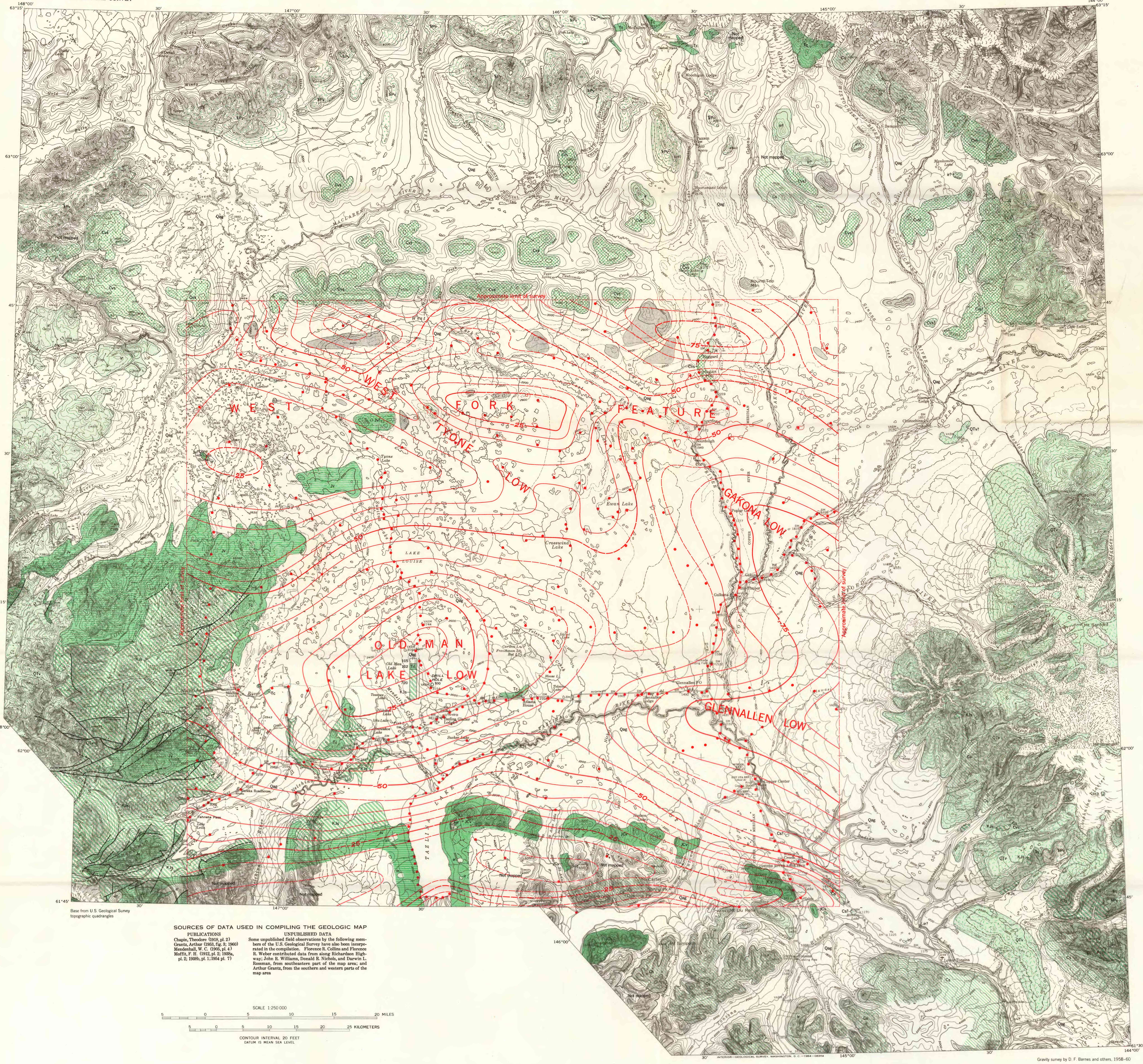
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 316
PLATE 24



EXPLANATION

QUATERNARY

Qag — Alluvial and glacial deposits

TERTIARY AND QUATERNARY

QTv — Andesite and basalt
Includes Wrangell Lava

TERTIARY

Tc — Continental sedimentary rocks
Include Gakona Formation

JURASSIC AND CRETACEOUS

KJs — Marine sedimentary rocks
Include the Tuxedni, Chinitna, and Naknek Formations of Jurassic age, the Kotsina Conglomerate of Jurassic or Cretaceous age, and the Nelchina Limestone and the Matanuska and Kennicott Formations of Cretaceous age

JURASSIC

Jv — Volcanic and sedimentary rocks
Predominantly marine tuffs, lava flows, and sedimentary rocks of Early Jurassic age; queried where doubtful

TRIASSIC

ℸs — Marine sedimentary rocks
Include the Chitistone and Nizina Limestones, the McCarthy Shale, and the Kuskulana Formation, all of Late Triassic age

PERMIAN AND TRIASSIC

ℸPv — Basalt and andesite
Includes Nikolai Greenstone

CARBONIFEROUS OR JURASSIC

JCv — Tuffs and lava flows

CARBONIFEROUS AND OLDER(?) TO CRETACEOUS

ir — Plutonic intrusive rocks, undivided
Queried where doubtful

CARBONIFEROUS AND OLDER(?)

Cs, Cvs — Sedimentary and volcanic rocks
Cs, *metamorphosed sedimentary and some volcanic rocks; include the Strelna and Chisna Formations, the Dadina Schist, and the Klutina Group. Queried where doubtful*
Cvs, *metamorphosed volcanic and some sedimentary rocks; include Tetelna Volcanics and unmapped felsic to mafic plutonic intrusive rocks. Queried where doubtful*

Isolated bedrock hills, lithology unknown

Contact

Fault
Dashed where inferred

Gravity station

−50

Gravity contour
Dashed where data are incomplete
Contour interval 5 mgal

SOURCES OF DATA USED IN COMPILING THE GEOLOGIC MAP

PUBLICATIONS

Chapin, Theodore (1918, pl. 2)
Grantz, Arthur (1953, fig. 3; 1960)
Mendenhall, W. C. (1905, pl. 4)
Moffit, F. H. (1912, pl. 2; 1938a, pl. 2; 1938b, pl. 1; 1954 pl. 7)

UNPUBLISHED DATA

Some unpublished field observations by the following members of the U.S. Geological Survey have also been incorporated in the compilation. Florence R. Collins and Florence R. Weber contributed data from along Richardson Highway; John R. Williams, Donald R. Nichols, and Darwin L. Rossman, from southeastern part of the map area; and Arthur Grantz, from the southern and western parts of the map area

SCALE 1:250 000

5 0 5 10 15 20 MILES

5 0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

Gravity survey by D. F. Barnes and others, 1958–60

SIMPLE BOUGUER GRAVITY ANOMALY AND GENERALIZED GEOLOGIC MAP OF THE COPPER RIVER BASIN AREA ALASKA