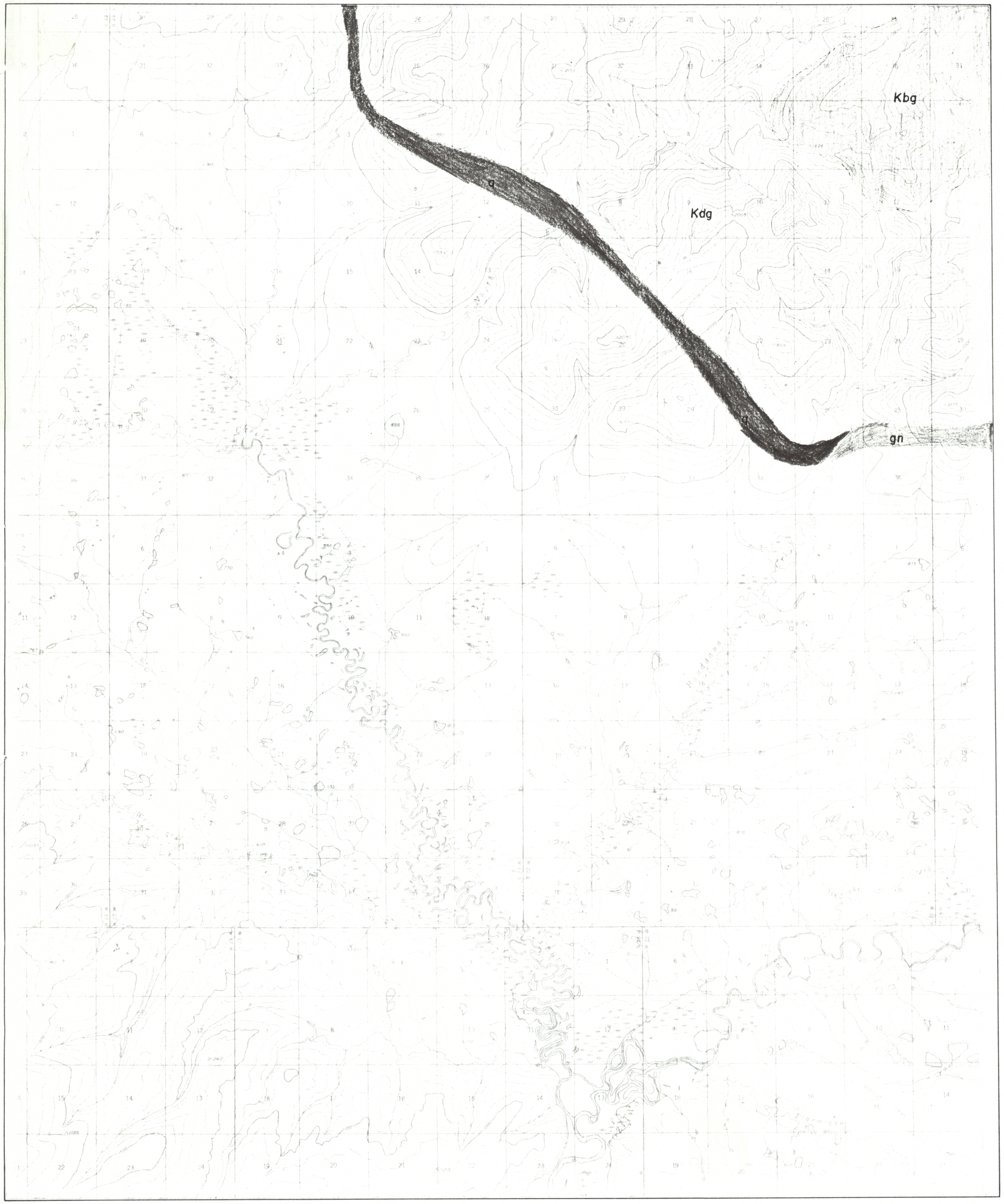

GEOLOGY

Metamorphic Rocks

Intrusive Rocks

Kfg (Fashingbang stock)
Kfg (Tog Creek)
Fine to medium grained, equigranular biotite muscovite granite. Composed of mineral quartz and K feldspar with subhedral oligoclase, biotite and muscovite. Sphene smallest phenocrysts. Fine aplite observed rarely. Mobile to typically angular.

Kbg Fine to coarse grained, euhedral, equigranular biotite granite. Composed of euhedral quartz, subhedral calcic oligoclase

Kdg Fine pattered and coarse grained, equigranular to porphyritic biotite muscovite granite. Composed of smokey euhedral quartz, K feldspar with subhedral oligoclase, biotite, and muscovite. White and rarely pink, euhedral K feldspar phenocrysts to 5cm locally comprise up to 20% of the lithology.

Kdg Fine patterned and coarse grained, equigranular to porphyritic biotite granite. Composed of quartz, K feldspar, calcic oligoclase and biotite. When present euhedral K spar phenocrysts (to several cm) are greenish white to salmon. Fine grained variety characterized by common smokey quartz clots in a fine grained K feldspar, oligoclase, and biotite groundmass.

Kdg Coarse grained porphyritic biotite granite. Large generally euhedral pink K feldspar in a coarse grained groundmass of euhedral quartz, subhedral zoned oligoclase (oligoclase-andesine), and biotite. Euhedral K spar is bigger than muscovite in 40% of the lithology. Contacts with Kbg are transitional.

Kdg Coarse grained porphyritic biotite granite. Large euhedral white K feldspar in a coarse grained groundmass of euhedral quartz, oligoclase (andesine), and biotite. Kdg and Kbg are probably the first intrusive event. Kdg is least [illegible] and more [illegible]. Contacts between the two phases are entirely gradational.

gn Contact metamorphic border gneiss. Contacts of the early granite variety with country rocks consist of conformable gneisses developed from both the granites and metasedimentary country rocks.

gb Coarse grained equigranular gabbro.

ls Limestone, and interbedded limestone and shale, exhibit the period of isoclinal folding.

q Quartzite and quartz-mica schist. Rocks in fault exhibit at least two phases of deformation on the northwest side of the fault. Polyphase deformation suggests this is the oldest unit exposed in the area mapped.

MAP SYMBOLS

Contact

Approximately located — Inferred or indefinite

Fault (U / D)

Approximately located

Location of Color Anomaly, most often Fe, Mn oxide staining

Strike and Dip of Bedding

Strike and Dip of Foliation

Strike of Vertical Foliation

Strike and Dip of Jointing

Strike of Vertical Jointing

Strike and Dip of Vein or Dike and Lithology/Mineralogy of Vein or Dike

Strike of Vertical Vein or Dike

Overturned anticline Showing Plunge of Axis

0 1000M 2000M 4000M

SCALE 1:50,000

TITLE

HODZANA TREND
Tanana C-5
Reconnaissance Geology

LOCATION: Tanana C-5 Quadrangle, Alaska		PLATE 5
SCALE 1:50,000	DATA BY ANCC	DATE 15 DEC 81
DRAWN BY HKS	FILE NO	REVISED
TO ACCOMPANY REPORT BY C PUCHNER		

ANACONDA