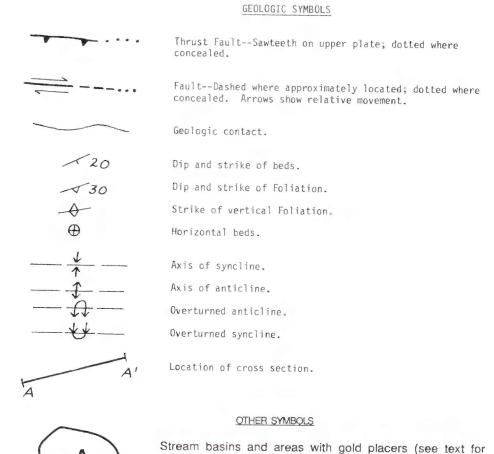
CORRELATION OF MAP UNITS

Sedimentary and Metasedimentary Rocks, and Thick Units of Volcanic Notified Enter Rocks and Igneous Intrusive and Thermally Metamorphosed Rock Units Q 5 QUATERNARY CRETACEOUS JURASSIC TRIASSIC PERMAN PERMSYLVANIAN MISSISSIPPIAN Document Docu

OPEN —FILE REPORT

88-293

PLATE 1 OF 2



description for each aphabetic or aphanumeric code).

The following description of a map units is an abbreviated version of one prepared by Dillon and others (1986):

QUATERNARY UNCONSOLIDATED DEPOSITS.

Qs SURFICAL--glacial, alluvial, colluvial, and landslide.

CRETACEOUS SEDIMENTARY ROCKS.

Age determined from fossils.

Undivided Devonian age determined from fossils.

Ks NONMARINE AND MARINE SEDIMENTS—includes conglomerates, sandstones, shale, siltstone, and coal.

MESOZOIC GRANITIC PLUTONIC ROCKS OF THE HODZANA HIGHLANDS.

Kg QUARTZ MONZONITE.

ROCKS WITH AT LEAST ONE REGIONAL METAMORPHIC FABRIC.

- MzPzs METAGRAYWACKE AND PHYLLITE (Mississippian to Triassic)--also includes cherts and metagrabbro.
- MzPzv MAFIC VOLCANIC ROCKS (Devonian to Lower Jurassic)--includes pillow basalt, diabase, chert, and minor limestone.

SLIGHTY METAMORPHOSED SEDIMENTARY AND VOLCANIC ROCKS WITH TWO

- TrCs SEDIMENTARY ROCKS (Carboniferous through Upper Triassic)--includes black, red, and green shale and siltstone, calcareous siltstone, cherty and fossiliferous limestone, quartzite and minor conglomerate. Local felsic volcaniclastics. (Includes the following Formations or Groups: Shublik, Otuk, Sadlerochit, Siksikpok, Lisburne, Kayak Shale, Kekiktuk
- MDkn KANAYUT CONGLOMERATE AND NOATAK SANDSTONE (Upper Devonian and Lower Mississippian ?)--Marine and nonmarine, also includes some shale.

TWICE METAMORPHOSED SEDIMENTARY AND VOLCANIC ROCKS, MIDDLE TO UPPER GREENSCHIST FACIES.

- Dhf HUNT FORK SHALE (Upper Devonian)—also includes phyllite, lithic wacke, conglomerate, sandstone, and minor fossiliferous limestone.
- Dhs HUNT FORK SCHIST (Upper Devonian)—also includes biotite garnet

BEAUCOUP FORMATION

Dbb BLACK ROCKS (Middle or Upper Devonian and Upper Devonian)—black calcareous phyllite and

thin, dark limestone.

- Dbcw CALCAREOUS CHLORITIC WACKE (Middle or Upper Devonian?)—also includes sandstone, conglomerate, limestone, and phyllite (Correlates
- Dbc CONGLOMERATE (Middle or Upper Devonian).

 BLACK SLATE, PHYLLITE, AND LIMESTONE

 (Middle or Upper Devonian ?, or older?)--also

 includes quartzite and lenses of brown dolomite.

- Dw WACKE (Middle or Upper Devonian?)--also includes some conglomerate and thin fossiliferous limestone.
- Pzw WACKE AND LIMESTONE (Devonian or older)--also includes conglomerate, schist, phyllite, sandstone, and felsic flows, plugs, and tuff.
- Pzwv VOLCANIC CONGLOMERATE (Middle or Upper Devonian?, or older?).
- Da AMBLER METAVOLCANIC ROCKS (Lower?, Middle and Upper Devonian)--mafic and felsic volcanics interbedded with schist, quartzite, and marble.
- Df FELSIC METAVOLCANIC ROCKS (Devonian)--extrusive and intrusive; interbedded with metasediments.
- Dm METABASITE (Devonian and Devonian?, and Jurassic?)--locally are parts of Ambler Metavolcanics, includes both intrusive and extrusive rocks.
- Dfm METAMORPHOSED BIMODAL IGNEOUS ROCKS (Devonian and Devonian?)--interlayered felsic and mafic extrussive and intrusive rocks locally mixed with clastic rocks.
- GRANITE GNEISS (Devonian and Devonian?).
- Dt TACTITE (Devonian?).

PROTEROZOIC

- Dc CHLORITIC AND CARBONATE ROCKS (Middle or Upper Devonian?)-phyllite and dolomite; also includes metasandstone, marble, and
- DSk SKAJIT LIMESTONE (Devonian and older?)--marble, dolomite, and carbonate conglomerate, locally schist.
- Dsc SILICEOUS CLASTIC ROCKS (Middle Devonian?)--includes metasiltstone, sandstone, phyllite, grit, and conglomerate (correlates
- with Dsg and upper part of Pzw).

 Dsg GRAYWACKE OF SILLYASHEEN MOUNTAIN (Middle Devonian).

BANDED SCHIST, PARAGNEISS, AND ORTHOGNEISS THAT MAY HAVE BEEN

- REGIONALLY METAMORPHOSED THREE TIMES.

 PzPm METABASITE (Proterozoic or Lower Paleozoic?)--diabase and gabbro
 - Ps SCHIST (Proterozoic or Lower Paleozoic?)--various types, local marble.
- PzPcs CALCAREOUS SCHIST (Proterozoic or Lower Paleozoic?)--local marble.
- Pg GRANITE GNEISS (Proterozoic?).

dikes and greenschist.

b BANDED SCHIST (Proterozoic?)—also includes quartzite, marble, and metabasite.

BASEMENT ROCKS OF THE DOONERAK FENSTER.

- DEw WACKE (Paleozoic)--also includes meta-tuff.
- SQb BLACK SILTSTONE AND PHYLLITE (Cambrian to Silurian)—also includes minor quartzite, graywacke, metatuff, dolomite, and limestone; numerous unmapped mafic sills.
- VOLCANIC ROCKS (Cambrian? and Ordovician)--andesitic to basaltic volcaniclastics with local phyllite, gabbro, diabase, and phyllite.

Base from U.S. Geological Survey Wiseman, 1956, unrevised.

Geology from Dillon and others, 1986

STREAM BASINS AND AREAS WITH GOLD PLACERS IN THE WISEMAN QUADRANGLE, BROOKS RANGE, ALASKA

James D. Bliss¹, William P. Brosgé¹, John T. Dillon^{2,3}, John B. Cathrall⁴, and J. Thomas Dutro, Jr.⁵

.

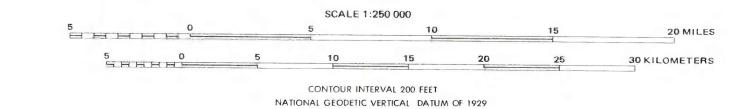
4. U.S. Geological Survey, Denver, CO.

2. Alaska Division of Mines and Geology, Fairbanks, AK.

1. U.S. Geological Survey, Menlo Park, CA.

5. U.S. Geological Survey, Washington, DC.

Deceased.



This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.