

A R C T I C O C E A N

B E A U F O R T S E A

ARCTIC OCEAN

Q QUATERNARY-RECENT
T TERTIARY
C CRETACEOUS
J JURASSIC
P PERMIAN-TRIASSIC
P PENNSYLVANIAN
M MISSISSIPPIAN
D DEVONIAN
S SILURIAN
O ORDOVICIAN
C CAMBRIAN

MAP EXPLANATION

Q

Surficial Deposits.
Glacial, alluvial, and colluvial
silt, clay, sand, gravel, & soil.

T

Sandstone, siltstone, shale.
Marine deposits of Marsh
Creek and possibly of Jago
River areas.

K

Shale, siltstone, conglomerate,
& sandstone.
Marine conglomerates of
Jago River area, marine
shale and sandstone of Inset
Formation in Sadlerochit Mts.
non-marine Colville Group of
coastal plain, and marine
sandstone & shale in S.E.
Romanzof Mts.

J

Shale & siltstone.
Undifferentiated Jurassic
marine sediments, probably
Kingak shale.

JK

Kingak shale.
Black pearly marine
shale & siltstone along
northern part of area.

TS

Shublik Formation.
Black phosphatic shale, lime-
stone, and chert.

TS

Sadlerochit Formation.
Resistant sandstone, with
minor siltstone & shale.
Main oil reservoir at Prudhoe
Bay field.

PM

Lisburne Group.
Kavik shale.
Kekikuk Conglomerate.
Basal Mississippian Kekikuk
conglomerate, overlain by
dark Kayak shale and several
dolomite and chert limestone
formations of the Lisburne
group, ranging to Pennsylvanian
age. Very widespread and
resistant mountain-formers.

DN

Nanook Limestone.
Devonian line of Shublik Mts.

D

Limestone, conglomerate, and
metamorphic rocks.
Includes Skayli limestone,
Kahyul conglomerate, and
unnamed metamorphics.

SK

Katakturuk Dolomite.
Porous dolomite of Sadlerochit,
Shublik, & NW Romanzof Mts.

MD

Metamorphic rocks.
Undifferentiated schists,
slates, phyllites, and lime-
stones of Mississippian and/or
Devonian age.

m

Mafic igneous rocks.
Dark crystalline sills, dikes,
flows, and plutonic bodies
ranging from Devonian to
Jurassic age.

Map Symbols

Contact (occasionally a normal fault)

Alluvial contact

Thrust fault (Barbs on upthrown side)

Anticline axis (arrow shows plunge direction)

gr

Granite and rhyolite.
Light-colored intrusives of
Romanzof Mts. and Bear
Mts. Localized metallic
mineralization, probable
Devonian age.

PxpC

Neruckpuk (Formation?)
Slightly to intensely altered
sandstone, conglomerate,
argillite, phyllite, slate, schist,
limestone, & chert.
Gauger from pre-Cambrian
to Devonian age.

Pev

Volcanics.
Tuffs, flows, & fragmental
rocks of Cambrian? and
Ordovician age.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL SURVEY

GEOLOGIC MAP OF ARCTIC NATIONAL
WILDLIFE RANGE

Compiled from U.S. Geological Survey sources by
D.C. Hartman
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SCALE 1:500,000
1" = about 8 miles