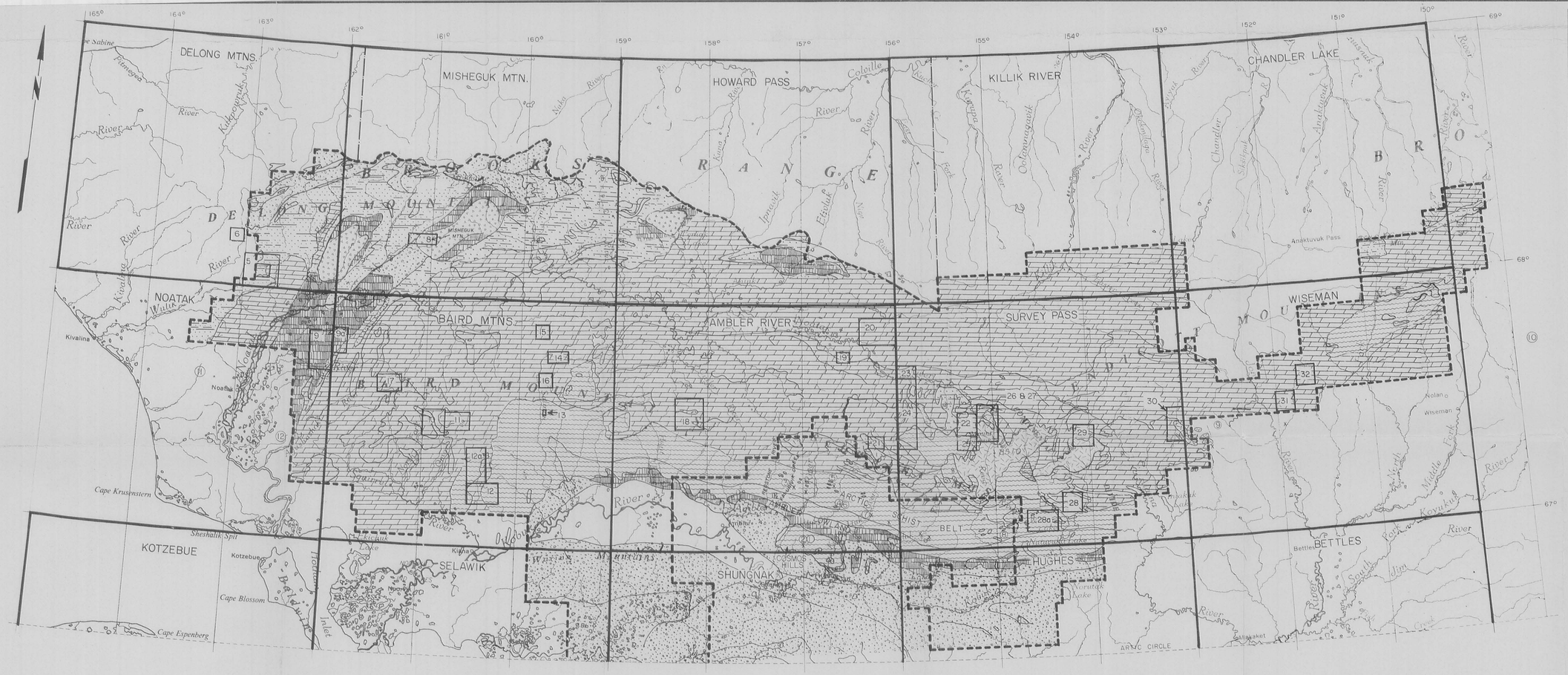

LEGEND

Q — QUATERNARY. Surficial deposits.

CRETACEOUS-JURASSIC SEDIMENTARY-VOLCANIC ROCKS. Marine and nonmarine sandstone, graywacke, mudstone, conglomerate, shale, and coal measures along south and northwest sides of project region. Includes andesitic volcanics and volcaniclastics on south side of project region.
SEQUENCE-5

JURASSIC-PERMIAN BASALTS. Pillow basalts, diabase, chert, shale; also includes some serpentinite. Commonly altered to chlorite, epidote, sodic plagioclase assemblage.
SEQUENCE-4

TRIASSIC-MISSISSIPPIAN SEDIMENTS. Shale, limestone, chert, sandstone, oil shale of the Lisburne Group, Siksikpuk and Shublik Formations.
SEQUENCE-3

DEVONIAN AND SILURIAN SEDIMENTS. Thick-to-thin-bedded recrystallized limestone (marble) and dolomite, phyllite, slate, metaconglomerate and quartzite, quartz-mica schist (often calcareous), quartz-chlorite schist. Metamorphism incipient to lower greenschist facies. Includes Skajit, Hunt Fork, Kanayut, and Nootak formations.
SEQUENCE-2

DEVONIAN(?) OR OLDER METAMORPHIC ROCKS. Quartz-mica schist, phyllite, greenstone, metarhyolite, marble and dolomite, graphitic schist of the Arctic Schist Belt. eugeosynclinal assemblage.
SEQUENCE-1

INTRUSIVE ROCKS

CRETACEOUS GRANITIC ROCKS. Granodiorite, monzonite, granite.

JURASSIC ULTRAMAFIC-MAFIC ROCKS. Dunite peridotite, gabbro, diorite, serpentinite. Associated with Jurassic to Permian basaltic rocks, and together form an ophiolite suite.

NAVAL PETROLEUM RESERVE NUMBER 4

BOUNDARY OF STUDY AREA (d-2 lands)

NOATAK — 1:250,000 QUADRANGLE

29 — AREA COVERED BY FIGURE IN THIS REPORT

7 — MINERAL OCCURRENCE OUTSIDE PROJECT AREA

NOTE: THIS MAP IS MODIFIED FROM USGS MAP MF-789

EXPLANATION

MINERAL OCCURRENCES OR CLUSTERS REFERRED TO IN TEXT (REGIONAL GEOLOGY) LOCATED ON LANDS ADJACENT TO THE PROJECT REGION

1. Ruby Creek (Bornite)
2. Pardner Hill-Aurora Mountain
3. Smucker
4. Sunshine Creek
5. Horse Creek
6. Dead Creek
7. Arctic
8. Picnic Creek-Hot Sun
9. Abo
10. Chandalar Copper belt (east of map boundary)
11. Rabbit Creek
12. Asik Mountain

X Other mineral occurrences

INDEX OF REPORT FIGURES

5. Red Dog Prospect
6. DeLong Mountains A-2
7. Avan River Area
8. Misheguk Mountains Area
9,9a. Maiyumerok Mountains Area
10. Omar Copper Prospect
11. Frost Area
12,12a. Kiery Creek Area
13. Temby Prospect
14. Hub Prospect
15. Chevron
16. Salmon River
17. Agashashok River
18. Kaluich Area
19. Kay Copper Prospect
20. Douglas-Ningyoyak-Midas Creeks
21. Shishakshinovik Pass Area
22. Kutarlak Creek Area
23. Nigikpaiyagururvrak Creek Area
24. Igning River
25. Iyahuna Creek Area
26. Tupik Creek Area
27. Mt. Papiok Area
28. Walker Lake Area 3
28a. Walker Lake Areas 1 & 2
29. Arrigetch Creek Area
30. Nahtuk Mountain Area
31. Sheep Creek Area
32. Tobin Mountain Area

NOTE:
FIGURE OUTLINES ARE FOR REFERENCE PURPOSES ONLY & DO NOT REFLECT EXACT AREAS COVERED

WGM INC. MINING & GEOLOGICAL CONSULTANTS
ANCHORAGE, ALASKA

GENERALIZED GEOLOGIC
and
INDEX MAP

US BUREAU OF MINES
JO155089

Scale: 1:1,000,000
Data By: W.G.M after USGS
Date: NOVEMBER, 1976

BM143
FIG. 4