



SEDIMENTARY DEPOSITS
Qd
Unconsolidated deposits
Mainly glacial, glaciofluvial, and alluvial deposits of Pleistocene and Recent age but locally includes eluvium and, in a narrow belt along the present coastline, beach deposits of Pleistocene age; small exposures of older, buried beach deposits of Tertiary and Pleistocene(?) age may be spottily exposed in dredged area on coastal plain south of Anvil Mountain

IGNEOUS ROCKS
Tkg-O
Granitic intrusives
Single aplite sill a mile west of Surprise Gulch in southeastern part of quadrangle

METAGNEOUS ROCKS
mgr-O
Metagranitic sills
mgd
Metagrandioritic sills
gt-O
Greenstone sills

METASEDIMENTARY ROCKS
The following lithologic units were previously included in the Nome Group (Brooks, A. H., Richardson, G. B., and Collier, A. J., 1901, Reconnaissance in the Cape Nome and Norton Bay regions, Alaska: U. S. Geol. Survey Spec. Pub., p. 29, also Moffit, F. H., 1913, Geology of the Nome and Grand Central Quadrangles: U. S. Geol. Survey Bull. 533, p. 17-19)

Fms
Interbedded marble and schist
Well-stratified sequence comprised principally of the following rocks: non-graphitic to slightly graphitic, quartz-chlorite-muscovite schist and chlorite-muscovite schist, non-graphitic to slightly graphitic calcareous and quartz-calcareous-chlorite-muscovite schist, blue-gray and gray marble and buff-weathering and gray schistose marble, garnetiferous and non-garnetiferous amphibolite, and impure calcareous and non-calcareous quartzite. Garnet and feldspar are constituents of some chlorite-muscovite schist. Units consisting mainly of marble are shown with cross-hatched pattern. Contact with underlying calcareous schist gradational

Fcs
Calcareous schist
Composed almost entirely of calcareous-rich rocks, including non-graphitic to slightly graphitic chlorite-muscovite schist and quartz-chlorite-muscovite schist, buff-weathering calcareous chlorite-muscovite schist, buff-weathering and gray schistose marble, and sparse blue-gray marble. Contact with underlying quartzite and schist gradational

Fqs
Interbedded quartzite and schist
Predominantly green to gray-green chlorite-muscovite schist and quartz-chlorite-muscovite schist and spotted, feldspathic variants of them with intimately interbedded lentils and beds of buff- to brown-weathering calcareous quartzite and yellow-green argillaceous quartzite; lentils range in size from a fraction of an inch in thickness and a few inches long to several feet in thickness and several tens to hundreds of feet long; minor units include calcareous chlorite-muscovite schist and gray and buff-weathering schistose marble. Contact with underlying schist gradational

Fm
Marble
Fm consists mainly of calcareous, quartz-calcareous, and quartz-chlorite-muscovite schist but includes blue-gray and gray marble, buff-weathering and gray schistose marble, and black quartzite. Gradational with underlying rock

Fm
Fm, principally platy, slabby and massive blue-gray and gray marble, and buff-weathering and gray schistose marble; minor units include calcareous chlorite-muscovite schist, and graphitic and non-graphitic chlorite-muscovite schist and quartz-chlorite-muscovite schist. Contact with underlying graphitic, calcareous schist gradational

Fgu
Graphitic, calcareous schist
Fgu, uppermost part of this unit is markedly more graphitic than the rest; includes gray to dark-gray, moderately to highly graphitic, calcareous quartz-chlorite-muscovite schist; graphitic quartz-chlorite-muscovite schist; gray, dark-gray, and black marble; and black quartz schist and black quartzite. Gradational with underlying rock

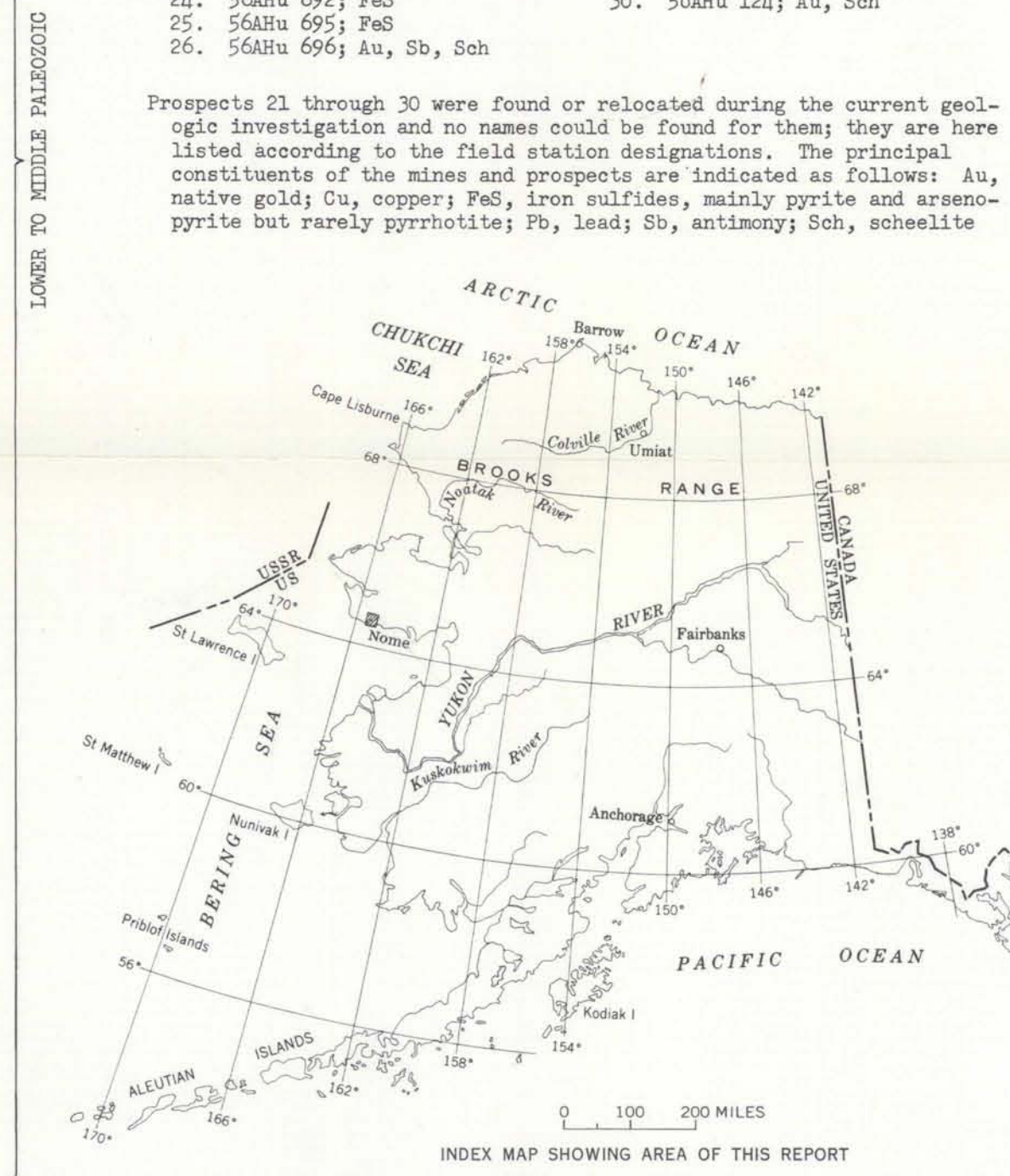
Fg
Fg, predominantly gray, slightly graphitic, calcareous quartz schist; minor units include blue-gray, gray, and black marble, graphitic chlorite-muscovite schist, quartz-chlorite-muscovite schist, and black quartz schist and black quartzite. Non-graphitic to slightly graphitic quartz-chlorite-muscovite schist, and black graphitic quartz schist and black graphitic quartzite predominate in units shown by vertical line pattern

EXPLANATION

QUATERNARY
Contact
Short dashed where approximately located; short dashes alternating with dots where inferred, extrapolated, or semi-obscured; queried where doubtful
Contact of unconsolidated deposit, approximately located
Fault, showing dip
Dashed where approximately located or inferred; dotted where concealed; queried where doubtful. U, upthrown side; D, downthrown side
Lineament or fault from aerial photographs
Shear zone
Anticline
Trace of axial plane approximately located
Bearing and plunge of axis of minor anticline
Bearing and plunge of axis of minor syncline
Bearing and plunge of overturned minor fold
Bearing and plunge of minor fold axis
Bearing of horizontal minor fold axis
Strike and direction of dip of beds from aerial photographs
Horizontal bedding foliation
Strike and dip of bedding foliation
Strike of vertical bedding foliation
Strike and dip of bedding foliation
Open arrow shows bearing and plunge of lineation
Strike and dip of bedding foliation
Solid arrow shows bearing and plunge of minor fold axis lying in plane of foliation
Strike and dip of bedding foliation
Open arrows indicate bearing of horizontal lineation
Bearing and plunge of lineation
Bearing of horizontal lineation
Strike and dip of joint
Strike of vertical joint

MINE OR PROSPECT
Numbers refer to mines and prospects listed below
1. Big Four; Au
2. Boulder Creek; Au
3. Gold Bug; FeS
4. Goodluck Gulch; Au, Sch
5. Hendrickson; Sb
6. Holmson and Helde; Cu, FeS
7. Hot Air; FeS
8. Jorgenson; Au, Sch
9. Lilly; Cu
10. Mohawk; FeS
11. Nelson (Skookum Creek); Sb
12. Olson; Sb
13. Peterson and Lamreaux; Pb
14. Pioneer Gulch; Au
15. Reinisch; Au, Sch
16. Scotia; FeS
17. Sophie; Sch
18. Stipec and Kotovic; Au
19. Widstedt #1; Sb
20. Widstedt #2; Sb
The names of the mines and prospects above are those by which they are referred in previous geologic literature of the area.
21. 56Hu 53l; FeS
22. 56Hu 56l; FeS
23. 56Hu 68l; Cu
24. 56Hu 692; FeS
25. 56Hu 695; FeS
26. 56Hu 696; Au, Sb, Sch
27. 56Hu 722; FeS
28. 56Hu 768; Pb, Sb
29. 57Hu 123; FeS
30. 58Hu 124; Au, Sch

Prospects 21 through 30 were found or relocated during the current geologic investigation and no names could be found for them; they are here listed according to the field station designations. The principal constituents of the mines and prospects are indicated as follows: Au, native gold; Cu, copper; FeS, iron sulfides, mainly pyrite and arsenopyrite but rarely pyrrothite; Pb, lead; Sb, antimony; Sch, scheelite



PRELIMINARY GEOLOGIC MAP OF THE NOME C-1 QUADRANGLE, SEWARD PENINSULA, ALASKA

By
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