



- Contact: approximate and/or inferred
- - - - - Landslide
- 67 Fault: known, inferred, and concealed, showing dip where known
- ▲▲▲ Inferred thrust fault. Sawteeth on upper plate.
- ↕ Anticline, showing plunge
- ↔ Syncline, showing plunge
- 56 Attitude of inclined and vertical bedding
- 45 Attitude of inclined and vertical foliation
- 34 Foliation showing plunge
- x s-152 Location and number of modal analysis sample

<p>Pleistocene to Recent</p> <ul style="list-style-type: none"> Qr Rock glaciers Qg Glacioluvial deposits Ql Landslides 	<p>Permian</p> <ul style="list-style-type: none"> Mankomet(?) formation. Principally coarse clastic sedimentary rocks with minor siltstone and limestone and interbedded andesitic volcanics(?). Limestone apparently thickens to the east. Tetaina formation. Andesitic flows, flow breccias, and mud-avalanche deposits with minor tuffs, basaltic flows and interbedded lenses of clastic sediments(?). 	<p>Triassic to early Tertiary (?)</p> <ul style="list-style-type: none"> Andell quartz monzonite pluton <ul style="list-style-type: none"> Andell phase. Coarse-grained, porphyritic quartz monzonite. Grubstake phase. Medium-grained quartz monzonite. Long Lake phase. Medium- to coarse-grained potassic diorite. Border zone phase. Fine-grained quartz monzonite, orthoclase rock, silica rock, silica-carbonate rock, and silica-tourmaline rock. Tectonic diorite-quartz diorite <ul style="list-style-type: none"> Type I. Heterogeneous diorite Type II. Medium- to coarse-grained quartz diorite Type III. Coarse-grained leucocratic diorite Type IV. Fine- to medium-grained quartz diorite Type V. Silicified quartz diorite Type VI. Silicified-carbonatized quartz diorite Type VII. Quartz-feldspar porphyry Type VIII. Quartz diorite cataclasis 	<p>Intrusive Rocks</p> <ul style="list-style-type: none"> Hybysstai rocks <ul style="list-style-type: none"> Hornblende granodiorite porphyry Andesite and andesite porphyry(A) Gabbro(G) Lamprophyre(L) Diabase(?) porphyry(D) Basalt, sills and minor dikes in the Mankomet(?) formation Sulata diorite(S) 	<p>Hybrid Rocks</p> <ul style="list-style-type: none"> Banded Tetaina formation and quartz monzonite. Dioritized Tetaina formation 	<p>Devonian(?)</p> <ul style="list-style-type: none"> Crystalline gneiss and schist
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FIGURE 2

GEOLOGIC MAP OF THE SLANA DISTRICT, ALASKA

SCALE 1:63,360

0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 FEET

0 1 2 3 4 MILES

0 1 2 3 4 KILOMETERS

CONTOUR INTERVAL 100 FEET
DOTTED LINES REPRESENT 50 FOOT CONTOURS
AREAS NOT SURVEYED IN DETAIL INDICATED BY BROKEN LINES
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1949

Geology by D. H. Richter, 1963-1965, assisted by G. Herrell, 1963 and W. T. Phillips, Jr., 1963 and 1965
Topography from U. S. Geological Survey Gulkana C-1 and D-1 and Nabesna C-6 and D-6 quadrangles