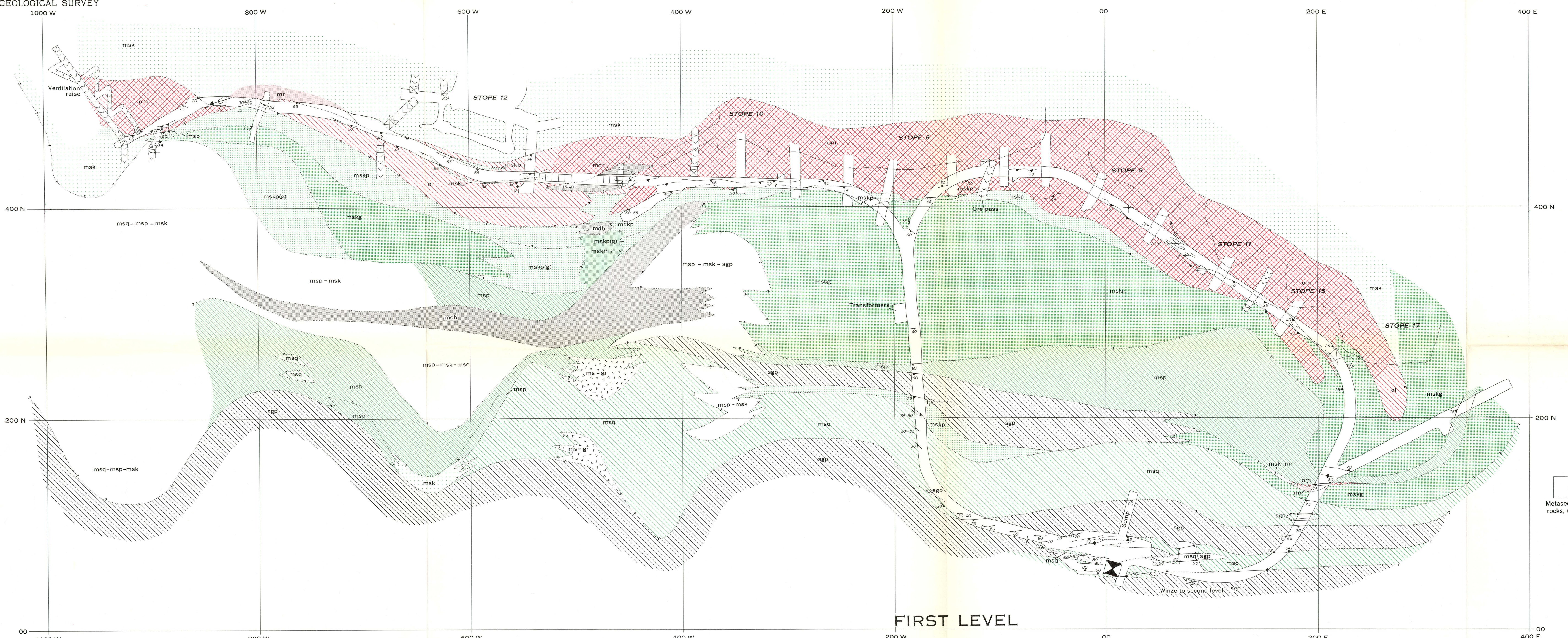
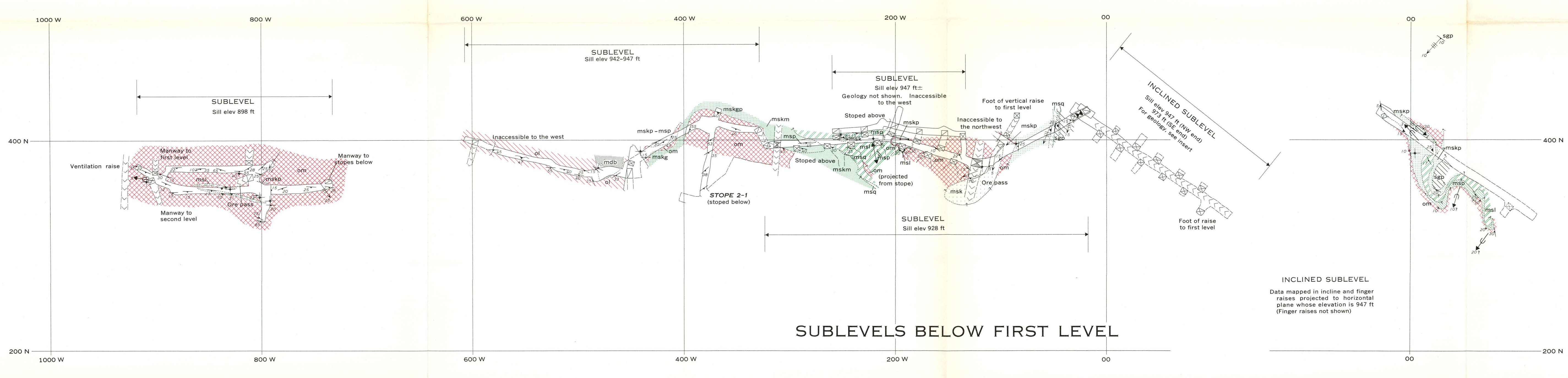


EXPLANATION

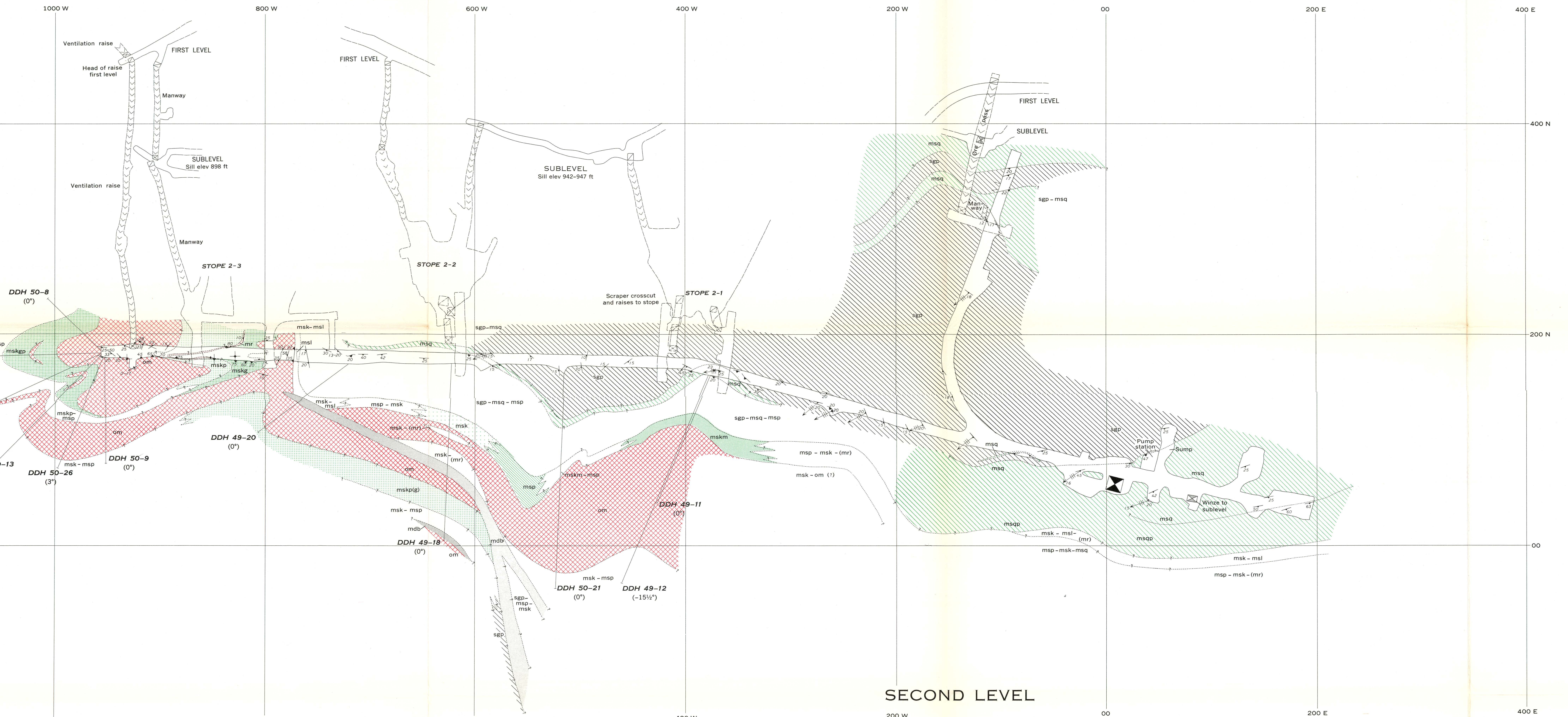
- Magnetite replacing pyroxene skarn and local skis or marble
- om, medium-grade ore, generally 44-45 percent total Fe or 38 percent magnetic Fe. Skopje is roughly 25-34 percent total Fe or 34-46 percent magnetic Fe. High-grade ore layers not shown separately.
- mr, mineralized rock, contains thin seams or disseminated areas of magnetite. In a few places, includes a little material of ore grade, too thin or too scattered to be mined.
- Alaskitic granite
- Pink, green, or white medium grained, locally pyroretic, locally pyroretic, locally pyroretic, locally pyroretic. May be related to alaskite or to phacoidal granite gneiss.
- Metadiabase
- Dark greenish gray, fine grained, foliated but irregularly folded, commonly gneissiferous.
- Phacoidal granite gneiss
- Normally pink but locally greenish or white, normally hornblende but locally alaskitic, normally phacoidal but locally schistose, rarely medium grained and equigranular.
- Pyroxene gneiss
- In part greenish or gray, fine grained, laminated or well foliated locally with lenses of dark skarn, in part greenish or rarely pinkish, medium grained, well foliated to biotitic, and almost massive, locally involved with granite or other granitic material. In places, includes a little quartz-feldspar granitoid.
- Biotite gneiss
- Dark, fine to medium grained, moderately to indistinctly foliated, generally rich in biotite.
- Metasedimentary rocks, undivided.
- msk, marble, generally white, medium grained, massive to streaky, and poorly foliated. In places, contains a few lenses of skarn or metasedimentary gneiss.
- msk, skarn, undivided, locally includes some modified skarn and metasedimentary gneiss.
- mskp, pyroxene skarn, medium to dark green, fine to medium grained, massive to finely foliated, locally with a little calcite. Contains sporadic thin biotite skis, near ore body.
- msksp, pyroxene skarn, slightly gneissiferous.
- mskgp, garnet-pyroxene skarn, locally garnet-rich, locally pyroxene-rich.
- mskg, garnet skarn, dark brown, fine to medium grained, massive, locally containing a little calcite or relic dark-green pyroxene. Particularly conspicuous in places.
- mskm, pyroxene skarn modified by introduction of quartz, potassic feldspar, or soapstone, generally dark, medium grained, massive or somewhat foliated, locally gneissiferous. Calcite-fluorite is present locally. Brown sphere is conspicuous in some varieties.
- Quartz-feldspar granitoid
- Gray, greenish white, buff, or pink, fine grained, granular and highly foliated. Foliation is distinct planar structure locally, reappearing bedding. Occasional ore in part homogeneous, in part interlayered with other metasedimentary rocks.
- Pink pyroretic quartz-feldspar granitoid
- May be micritic granite gneiss.
- Groups of letter symbols indicate compound rock units. In these, if there is a dominant rock type, it is given first, sub-codified type following.
- Contact, showing dip.
- Concealed or inaccessible contact.
- Shear zone, showing dip.
- Axes of folds and warps.
- Plunge of oronulations and small folds.
- Plunge of minor anticline.
- Plunge of minor syncline.
- Plunge of subparallel elongate minerals or mineral aggregates, clots of rock, rodding, and fluting.
- Plunge of slickensides and lineations given by imbricate mica flakes.
- Strike and dip of foliation.
- Horizontal or subhorizontal foliation.
- Strike and dip of joint.
- Shaft.
- Bottom of shaft.
- Inclined workings.
- Foot of raise.
- Head of raise.
- Raise extending through level.
- Workings essentially in map plane.
- Projected workings.
- Inaccessible workings.
- DDH 49-12 (-15 1/2 degrees).
- Underground diamond-drill hole, showing horizontal projection and inclination.



FIRST LEVEL

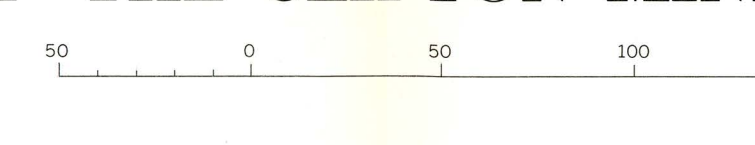


SUBLEVELS BELOW FIRST LEVEL



SECOND LEVEL

UNDERGROUND GEOLOGIC MAP OF THE CLIFTON MINE, ST. LAWRENCE COUNTY, NEW YORK



PRECAMBRIAN