

**EXPLANATION**  
SECTIONS  
For age relations of the following units, see map explanation

Overburden  
Glacial and alluvial material

Low-grade ore  
Averages about 24 percent magnetic Fe

Subore  
About 7-15 percent magnetic Fe

Sillimanite-microcline granite gneiss

Pyroxene-brown garnet-microcline granite gneiss

Microcline granite gneiss  
Generally contains biotite or pyroxene. Includes some granite pegmatite

The age relations of the following units are imperfectly known

Biotite-pyroxene gneiss

Pyroxene-biotite gneiss  
Locally includes pyroxene gneiss, biotite gneiss, or subordinate modified skarn

Skarn  
Dominantly pyroxenic

Pyroxene gneiss  
Locally includes subordinate skarn and quartz-feldspar granulite

Garnet-biotite quartzite  
Locally feldspathic. Includes some garnet-biotite gneiss

Garnet-biotite gneiss  
Locally quartzitic

Sillimanite-biotite gneiss  
Locally garnetiferous

Biotite gneiss  
Very rarely garnetiferous

Quartzite, feldspathic quartzite, and quartz-feldspar granulite  
May contain a little biotite or pyroxene

Calclitic marble  
Partly silicified

Biotitic amphibolite

Sections show only the rocks actually cut in each drill hole. Rocks that would have to be projected from adjacent drill holes are omitted from the sections

Topographic profiles and top of bedrock are inferred for all sections

**EXPLANATION**  
MAP

Low-grade ore  
Averages about 24 percent magnetic Fe

Subore  
About 7-15 percent magnetic Fe. At hole 10, includes mineralized rock equivalent in position to ore zone cut in other holes

Sillimanite-microcline granite gneiss (gms)

Pyroxene-brown garnet-microcline granite gneiss (gmpg)

Microcline granite gneiss (gm)

The age relations of the following units are imperfectly known

Pyroxene-brown garnet gneiss locally calcareous (misp)

Biotite-pyroxene gneiss (mspb)

Pyroxene-biotite gneiss locally with pyroxene gneiss, biotite gneiss, or subordinate modified skarn (msp)

Pyroxene gneiss locally with subordinate skarn and quartz-feldspar granulite (msg)

Garnet-biotite quartzite locally feldspathic. Includes some garnet-biotite gneiss (msgb)

Garnet-biotite gneiss locally quartzitic (msbs)

Sillimanite-biotite gneiss locally garnetiferous (msb)

Biotite gneiss very rarely garnetiferous (msq)

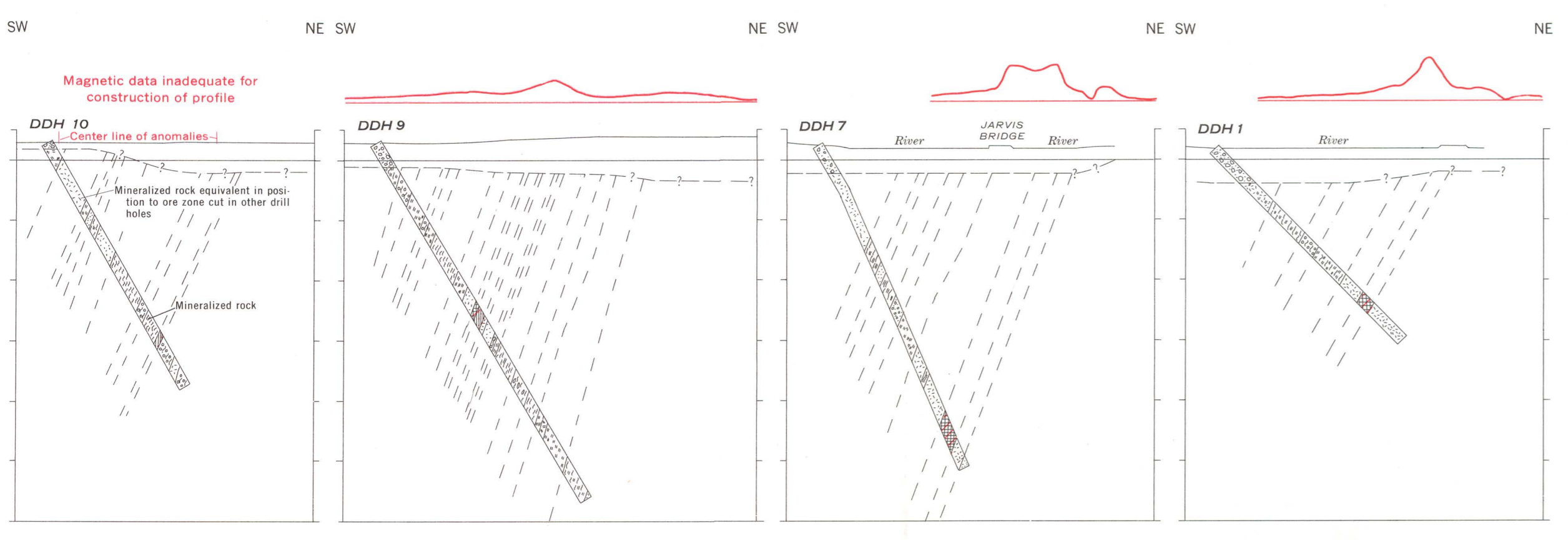
Quartzite, feldspathic quartzite, and quartz-feldspar granulite may contain a little biotite or pyroxene (ms)

Metasedimentary rocks and migmatites of the Grenville series includes some microcline granite gneiss (ms)

Contact, approximately located  
Queried where location or continuation is questionable (horizontal projection of its suboutcrop)

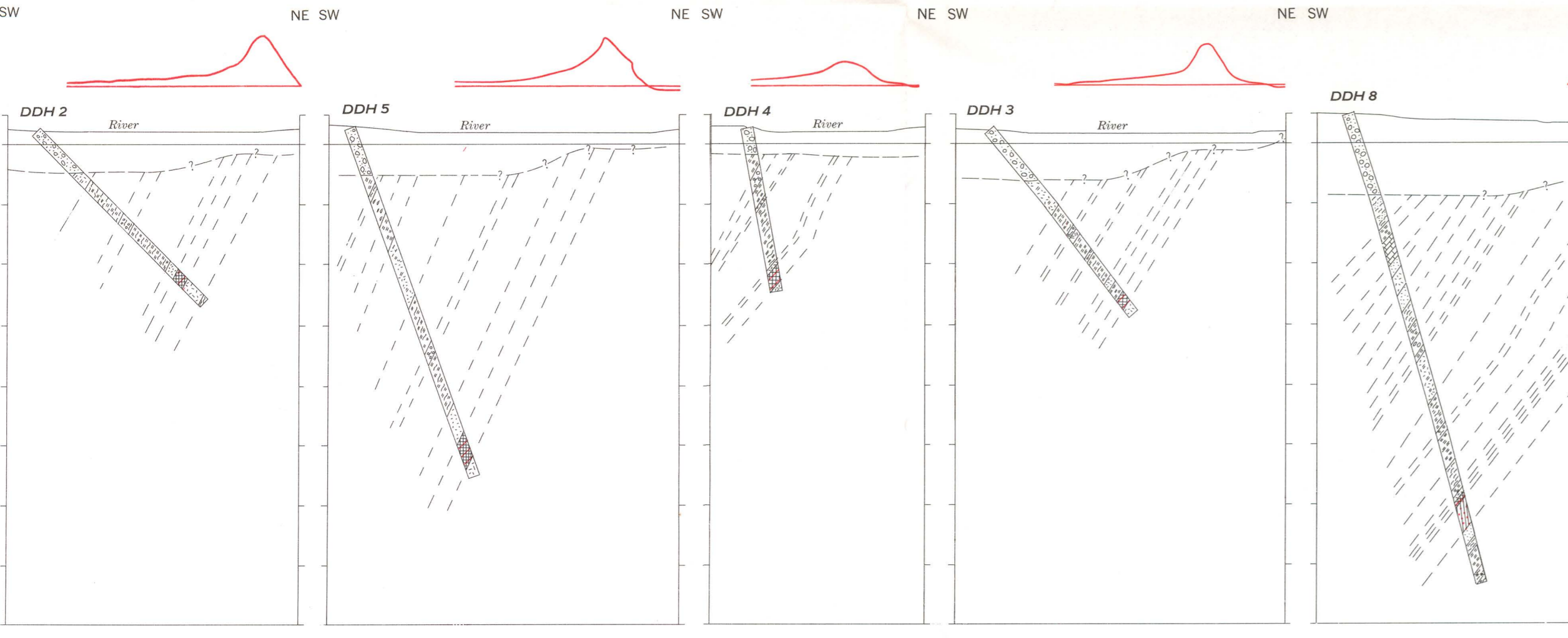
Dip-needle isoclinal contour  
Null readings reduced to zero. Contour interval 20', supplemented by the 10' isoclinal

DIP-NEEDLE READINGS IN DEGREES



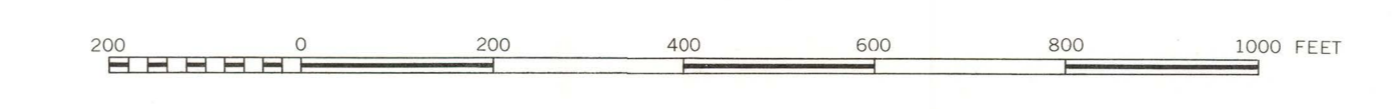
DIP-NEEDLE READINGS IN DEGREES

DIP-NEEDLE READINGS IN DEGREES



DIP-NEEDLE READINGS IN DEGREES

**BEDROCK GEOLOGIC AND MAGNETIC MAP AND GEOLOGIC SECTIONS, JARVIS BRIDGE DEPOSIT AND NORTHWEST EXTENSION  
NORTHWEST RECTANGLE, CRANBERRY LAKE QUADRANGLE, ST. LAWRENCE COUNTY, NEW YORK**



Base map and magnetic anomalies for area east of 8100 E from U.S. Bureau of Mines. Published with permission of U.S. Bureau of Mines. (See also Miller, 1947, figs. 3, 4 and 5)