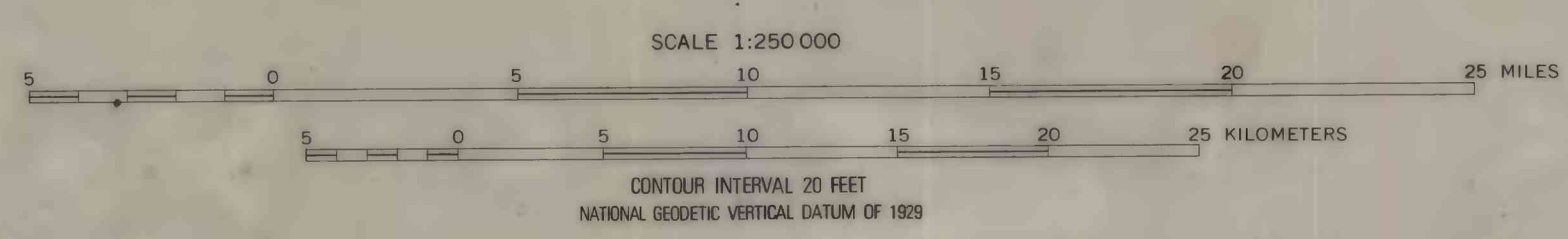




MAP A.--STREAM SEDIMENT SAMPLE LOCATIONS



MAP B.--ROCK SAMPLE LOCATIONS

CORRELATION OF MAP UNITS

SURFICIAL DEPOSITS

Qag QUATERNARY

SEDIMENTARY ROCKS

Kju CRETACEOUS AND JURASSIC

Pz PALEOZOIC

Ydr PROTEROZOIC Y Zd PROTEROZOIC Z

Yc

IGNEOUS ROCKS

Tt TERTIARY

Tki TERTIARY OR CRETACEOUS

Tkva

DESCRIPTION OF MAP UNITS

SURFICIAL DEPOSITS

Qag UNCONSOLIDATED DEPOSITS (QUATERNARY)--Chiefly of alluvial and glacial origins. Locally includes sedimentary and proclastic rocks of Tertiary age in southern part of map area

SEDIMENTARY ROCKS

Kju SEDIMENTARY ROCKS (CRETACEOUS AND JURASSIC)--Chiefly mudstone and sandstone

Pz MISSISSIPPIAN, CAMBRIAN, AND DEVONIAN LIMESTONE AND DOLOMITE (PALEOZOIC)--Locally includes shale, siltstone, sandstone, and quartzite

Ydr ARGILLITE, SILTITE, AND QUARTZITE (PROTEROZOIC Y)--Includes dolomite and dolomitic limestone in eastern-most exposures

Yc DOLOMITE, DOLOMITIC LIMESTONE, AND LIMESTONE (PROTEROZOIC Y)--Locally includes dolomitic and calcareous argillite, siltite, and quartzite

IGNEOUS ROCKS

Tt INTRUSIVE ROCKS (TERTIARY)--Chiefly quartz monzonite stocks and dacite plugs

Tki TRACHYANDESITE SILL (TERTIARY OR CRETACEOUS)

Tkva EXTRUSIVE ROCKS (TERTIARY OR CRETACEOUS)--Flows and pyroclastic rocks of trachyandesite and trachybasalt composition, includes volcanic-sedimentary rocks

Zd DIORITE AND GABBRO SILLS (PROTEROZOIC Z)

EXPLANATION

GEOLOGIC SYMBOLS

--- Contact, approximately located

--- Diorite or gabbro sill (Zd)

24 Sample locality No. corresponds to data shown on tables 1 and 2

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INDEX MAP SHOWING LOCATION OF THE CHOTEAU 1° x 2° QUADRANGLE

PLATE 1.--SAMPLE LOCALITY MAPS OF STREAM SEDIMENT AND ROCK SAMPLES IN THE CHOTEAU 1° X 2° QUADRANGLE, MONTANA

By David J. Grimes, Reinhard W. Leinz, and Roy T. Hopkins, Jr. 1980