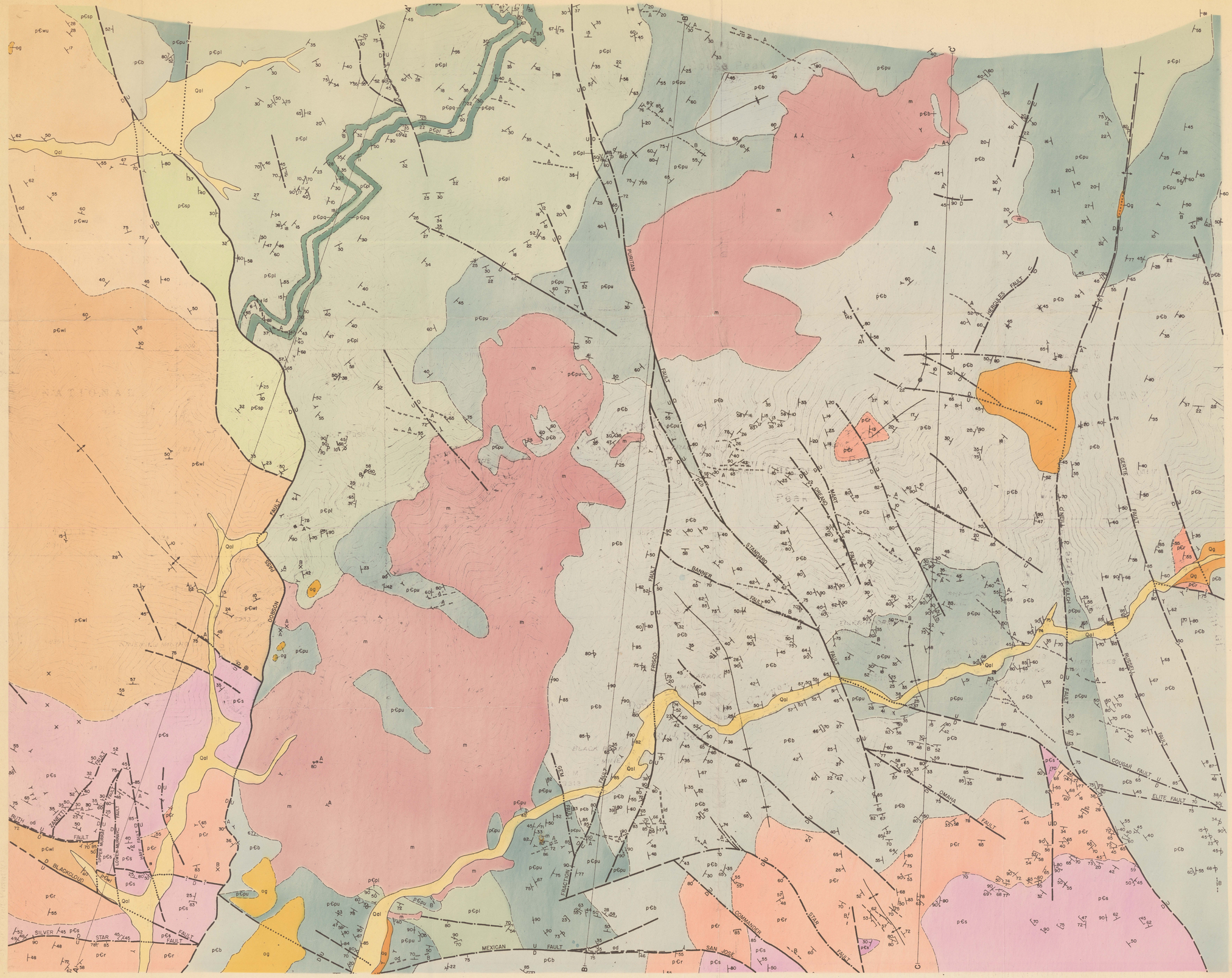
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

AREAL GEOLOGY
N 1/2 OF MULLAN AND VICINITY QUADRANGLE
IDAHO



EXPLANATION

Qal
Alluvial Deposits

Qg
Glacial and Glacial Fluviatile Deposits

og
Older Gravels
Undifferentiated gravels older than Qal, commonly forming terraces.

ld
Lamprophyre Dikes
Solid lines where exposed; dashed where approximately located.

od
Other Dikes
Solid lines where exposed; dashed where approximately located. Includes varieties of diabase, diorite, and monzonite.

m
Monzonite and Associated Rocks Vary From Syenite to Diorite

pCsp
Striped Peak Formation
Interbedded impure quartzite and argillite, usually thin-bedded. Colors vary from purple and pink to gray and green, many beds limy. Shallow water features are characteristic.

pCwu
Upper Wallace Formation
Predominantly thinly laminated, dark gray argillite, some interbedded light gray quartzite and impure to fairly pure limestone; more or less limy material throughout.

pCwl
Lower Wallace Formation
Interbedded, fine-grained, light-gray, more or less limy quartzite and dark gray argillite. Beds range from 1 to 12 inches thick. Some impure dolomitic beds near top. Shallow water features are characteristic.

pCs
St. Regis Formation
Typified by purplish color of rocks. Grades from light purple quartzite at base to thin-bedded dark purple and gray argillite. Uppermost part is usually a thinly laminated, light greenish argillite.

pCr
Revett Formation
Thick-bedded, vitreous, white quartzite. Cross-bedded and laminated in part. Grades into less pure quartzite at bottom and top.

pCb
Burke Formation
Thin-bedded, light to greenish-gray, fine-grained argillaceous quartzite with more or less white or light purple, thick-bedded quartzite. Shallow water features are common.

pCpu
Upper Prichard Formation
Thin- to thick-bedded, light gray to white, pure to argillaceous quartzite interbedded with thinly-laminated, dark gray argillite. Shallow water features are common.

pCpq
pCpl
Lower Prichard Formation
Banded dark gray argillite, laminated in part; partings usually contain numerous pyrite crystals. Weathers rusty red. The pCpq is a zone of interbedded white to light gray quartzite.

Veins at the Surface
Solid line where exposed; broken where approximately located.

Veins Projected From Underground Workings
Approximate position shown as if vein were continuous to surface, though not necessarily known to crop out.

Types of Veins
A = veins known to contain base metals
B = veins not known to contain base metals

Contact
Dashed where approximately located

Indefinite Contact
Includes gradational and obscured contacts, and boundaries of surficial deposits.

Fault Showing Dip
Dashed where approximately located; dotted where concealed.
U = upthrown side, D = downthrown side

Doubtful or Probable Fault; dotted where concealed

Faults Showing Dip, Projected on Dip to Surface From Underground Observation
U = Upthrown side, D = downthrown side

Anticline
Showing trace of axial plane; dashed where approximately located; dotted where concealed.

Syncline
Showing trace of axial plane; dashed where approximately located; dotted where concealed.

Strike and Dip of Beds

Strike and Dip of Beds Projected Vertically From Underground Observation

Strike and Dip of Overturned Beds

Strike of Vertical Beds

Horizontal Beds

Strike and Dip of Cleavage

Strike of Vertical Cleavage

Prospect Pit or Obscure Working

Portal of Adit

Shaft

GEOLOGIC MAP
OF THE
NORTHERN HALF OF THE MULLAN AND VICINITY QUADRANGLE, IDAHO
AREAL GEOLOGY
By A. B. Griggs

Topography by C. P. McKinley, C. N. Mortenson and F. H. Purdy
Culture and drainage in part compiled from aerial photographs
Surveyed in 1938-39

Geology mapped in 1948-51

Scale 1:12,000

1000 500 0 1000 2000 3000 4000 5000 Feet
1/2 1/4 0 1/2 Miles

Contour interval 25 feet
Datum is mean sea level

1952

21°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION 1952

This map is preliminary and has not been reviewed or edited for conformity with U. S. Geological Survey standards and nomenclature

Idaho (Mullan quad.). Geol. 1:12,000. 1952.
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