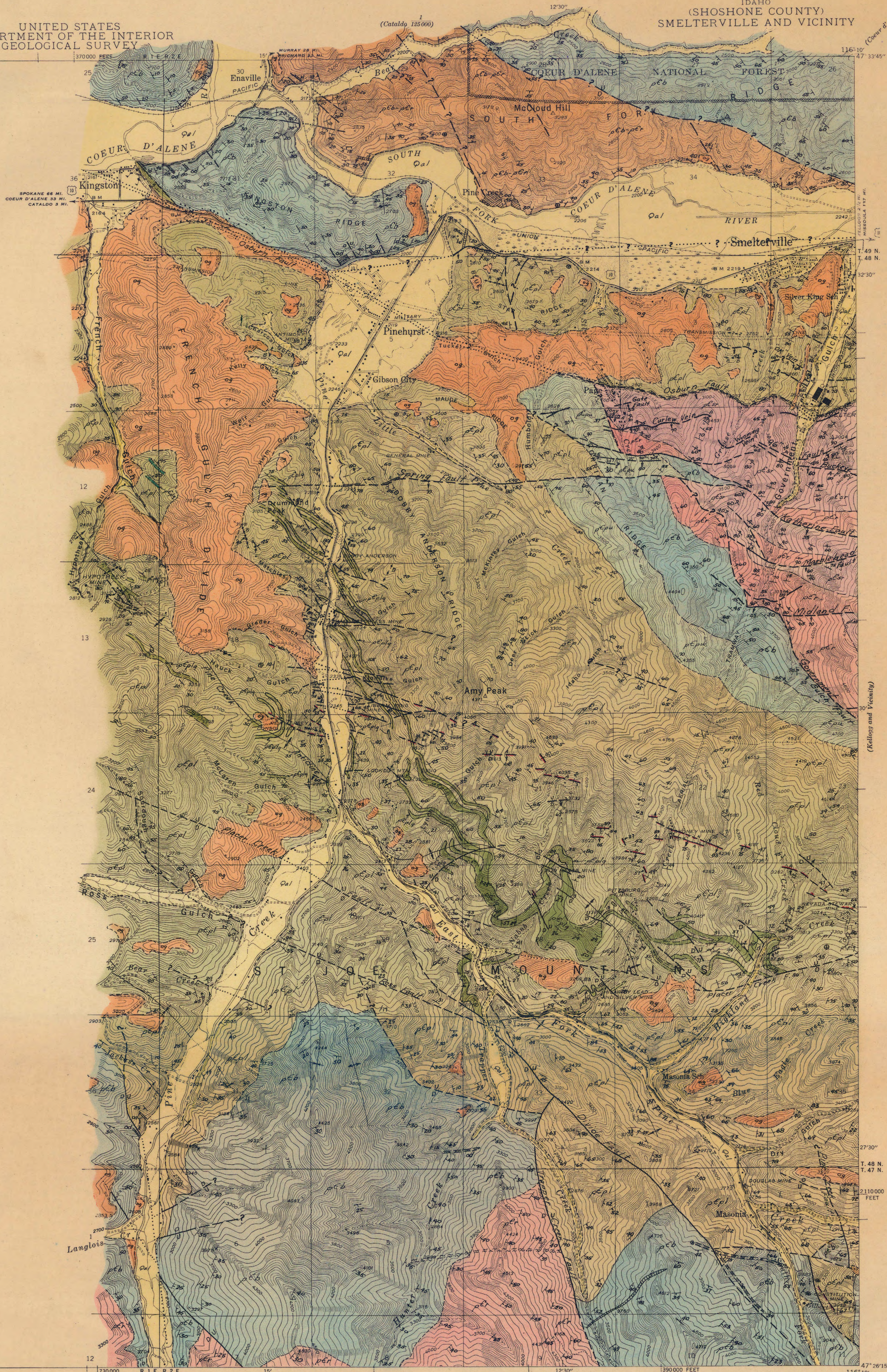
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

IDAHO
(SHOSHONE COUNTY)
SMELTERVILLE AND VICINITY



EXPLANATION

Qal
Alluvial 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, intruded as dikes and small irregular bodies.

pCsr
St. Regis Formation
Typified by purplish color of rocks. Grades from light purple quartzite at base to thin-bedded dark purple and gray argillite. Purple color usually absent in areas of hydrothermal alteration. Shallow water features are common.

pCr
Revett Quartzite
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 some white or light purple, thick-bedded quartzite. Shallow water features are common.

pCb-pCr
Burke Formation—Revett Quartzite
Undifferentiated because of poor exposures and the wide areal extent of the broad gradational contact zone between these two formations in the South Fork Ridge area.

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.

pCpl / pCpla
Lower Prichard Formation
Thin- to thick-bedded, light to dark gray argillite, laminated in part; partings commonly contain numerous pyrite crystals. Weathers rusty red. The pCpla is interbedded white to light gray, subvitreous to vitreous quartzite.

Veins at the Surface
Solid line where exposed; broken where approximately located. Also shown by red line where occupying a fault or shear.
A = veins known to contain base metals
B = veins not known to contain base metals

Contact
Dashed where approximately located; dotted where concealed

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

Fault with associated shearing

Zone of Shearing

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 Overturned Beds

Strike and Dip of Doubtful Overturned Beds

Strike of Vertical Beds

Horizontal Beds

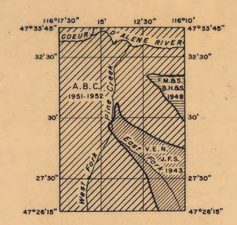
Strike and Dip of Cleavage

Strike of Vertical Cleavage

X
Prospect Pit or Obscure Working

Portal of Adit

Shaft



Index to Mapped Area
Showing initials of person or persons principally responsible for mapping indicated areas and dates of field work.

A. B. C. — Arthur B. Campbell
F. M. & S. / B. H. & S. — Compiled by A.B.C. from maps of Federal Mining and Smelting Company and Bunker Hill and Sullivan Mining and Concentrating Company.
V. E. N. / J. F. S. — V. E. Nelson / J. F. Smith, Jr. — From U.S.G.S. Strategic Minerals Investigations Map of the Pine Creek area. Minor modifications by A.B.C.

Topography by C. N. Mortenson and F. H. Purdy
Surveyed in 1937

APPROXIMATE MEAN DECLINATION, 1952
21½° TRUE NORTH MAGNETIC NORTH

GEOLOGIC MAP OF THE SMELTERVILLE AND VICINITY QUADRANGLE, IDAHO

Scale 1:24,000

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

Contour interval 25 feet
Datum is mean sea level

Polyconic projection. 1927 North American datum
5000 yard grid based on U. S. zone system, F
10000 foot grid based on Idaho (West) rectangular coordinate system

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