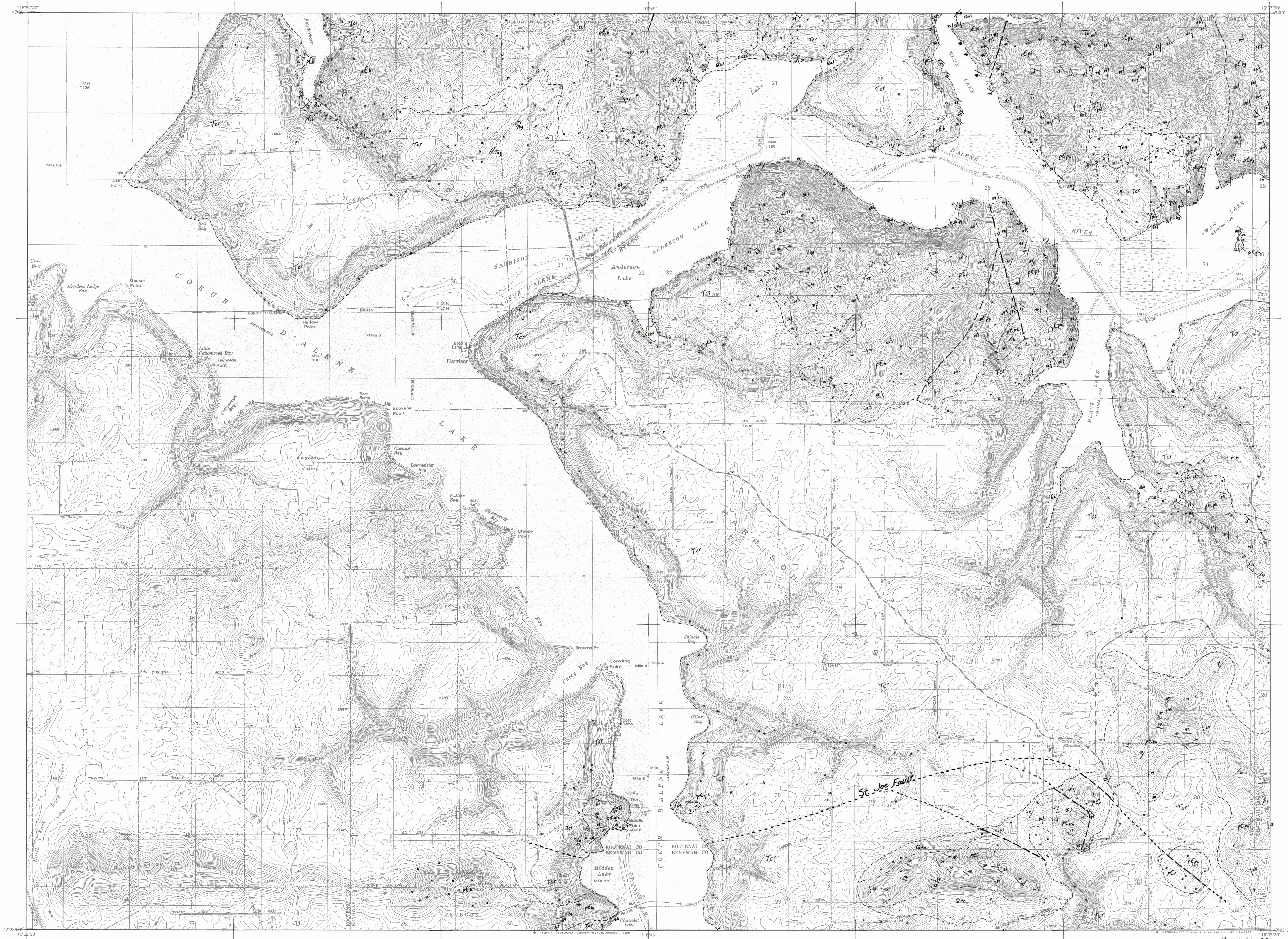


GEOLOGIC MAP OF THE BLACK LAKE AND HARRISON QUADRANGLES, BENEWAH AND KOOTENAI COUNTIES, IDAHO

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- Description of Map Units
- Quaternary
- Qal** Alluvium -- Recently deposited clay, silt, sand, and gravel.
 - Qtc** Talus and colluvium -- Fine to coarse quartzite debris shed off Indian Mountain.
- Tertiary
- Tog** Old gravel -- Tan to orange clay, silt, sand, pebbles, and cobbles filling Tertiary stream valleys. Composed of materials derived from surrounding Belt metasediments.
 - Ter** Columbia River basalt -- Tholeiitic basalt flows of probable Grande Ronde age. Exposures in most areas covered by thin mantle of loess.
- Precambrian Belt Supergroup
- PCs** Burke Formation -- Thin- to thick-bedded, gray and dark gray and some gray-green, fine- to medium-grained, subvolcanic quartzite and siltite with some greenish-gray argillite and silty argillite.
 - PCp1** Prichard Formation
 - Member I -- Gray to dark gray siltite and very fine-grained quartzite that is thinly laminated and very thinly interbedded with dark gray to black argillite and silty argillite. Abundant to subordinate packages of light gray to tan, fine- to medium-grained quartzite up to 30 feet thick occur interbedded with siltite and a few thin laminated argillite-siltite packages. Immediately east of Blue Lake, member I consists mainly of gray to mainly dark gray siltite with quartzite and very minor argillite-siltite packages as above.
 - Member H -- Gray siltite and silty argillite interlaminated and very thinly interbedded with dark gray and in places nearly black siltite and silty argillite. Few thin black argillite laminae. Planar bedded, micro-crikkled in places. Weathers to plates and slabs, typically one eighth inch to one inch in thickness. Almost fissile in some places.
 - Member G -- Gray to dark gray and olive gray siltite and silty argillite interlaminated and very thinly interbedded with dark gray to black silty argillite, siltite and gray to dark gray fine- to very fine-grained quartzite. Numerous intervals of thin- to medium-bedded light to dark gray, tan and olive gray, fine- to medium-grained and a little coarse-grained quartzite and siltite. Planar to irregular bedding. Blocky- to platy-weathering.
 - PCp2** Quartzite, gneiss and schist -- Highly metamorphosed Belt or pre-Belt sediments. Quartzite is fine- to medium-grained and light gray to gray in color. Very minor feldspar content. Gneiss and schist are composed of feldspar and biotite with some quartz in the gneiss. The areally-limited exposures are dominated by quartzite on both sides of Coeur d'Alene Lake.
- Metamorphosed Belt or pre-Belt

- Symbols
- Contact, approximately located
 - Fault, approximately located
 - Fault, concealed
 - Strike and dip of bedding
 - Inclined
 - overturned
 - Strike and dip of layering in gneiss and schist
 - Bearing and plunge of prominent lineations
 - Individual outcrop, roadcut exposure, or diagnostic rubble

Base maps scanned from USGS digital raster graphic, Black Lake and Harrison 1981.
Black Lake and Harrison topography by photogrammetric methods from aerial photographs taken 1973. Maps field checked 1976. Maps edited 1981.
Universal Transverse Mercator projection.
1927 North American Datum
10,000-foot grid ticks based on Idaho coordinate system, west zone.
1000-meter Universal Transverse Mercator grid ticks, zone 11.

Harrison UTM Grid and 1983 NAD datum
Declination at Center of Map

Black Lake UTM Grid and 1983 NAD datum
Declination at Center of Map

SCALE 1:24,000
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0.5 0 0.5 1 KILOMETER
Black Lake and Harrison contour interval 20 feet

QUADRANGLE LOCATION

ADJOINING QUADRANGLES

Field work conducted 2009.
Layout by Jane S. Freed at the Idaho Geological Survey's Digital Mapping Lab.
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Map version 7-10-2012.
PDF (Acrobat Reader) map may be viewed online at idaho.gov/geology.
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