113°45′

U.S.G.S. 1:62,500 topographic base.

Topography from photogrammetric methods from aerial

Polyconic projection. 1927 North American datum 10,000-foot

grid based on Idaho coordinate system, central zone.

113°40′

SCALE 1:62,500

1 0.5 0 1 2 3 4 5

CONTOUR INTERVAL 80 FEET

Td3 | DONKEY FANGLOMERATE, UNIT 3-Quartzite pebble to

Td1 DONKEY FANGLOMERATE MEMBER 1—Quartzite pebble to

CHALLIS VOLCANIC GROUP

sandstone, pebbly sandstone, and minor quartzite

boulder conglomerate, biotite-bearing and vitric tuffs, breccia blocks, and andesite and carbonate pebble

conglomerates; sample 88-144 is 30-32 Ma based on 40Ar/39 Ar data (Janecke and Snee, 1990, unpub.

weathering, welded, quartz sanidine-bearing ashflow tuff; 45.5-46.5 Ma based on 40Ar/39Ar dates.

(L.W. Snee and R. Hardyman, written communication; Janecke and Snee, 1990)

boulder gravel and conglomerate

Td2 DONKEY FANGLOMERATE, UNIT 2—Tuffaceous

bxd | DOLOMITE BRECCIA-sec. 19, T. 11 N., R. 24 E.

data); base not exposed

Tcr | TUFF OF CHALLIS CREEK-(Hardyman, 1985); red

gravel or conglomerate beds

Modified from Mapel, W.J., W.H. Read, and R.K. Smith, 1965, Geologic map and sections of the Doublespring quadrangle, Custer and Lemhi counties, Idaho: U.S. Geological Survey Map GQ-464, scale 1:62,500.

formation, east-central Idaho [abs.]: Geological

Society of America Abstracts with Program,

Geologic map and sections of the Doublespring

of the Challis quadrangle, Custer and Lemhi counties, Idaho: U.S. Geological Survey Map GQ-

Ross, C. P., 1947, Geology of the Borah Peak quadrangle, Idaho: Geological Society of America Bulletin, v. 58, p. 1085-1160.

Scott, W. E., 1982, Surficial geologic map of the eastern Snake River Plain and adjacent areas, 111° to 115° W., Idaho and Wyoming: U.S. Geological Survey Map 1-1372, scale 1:250,000.

quadrangle Custer and Lemhi counties, Idaho: U.S. Geological Survey Map GQ-464, scale 1:62,500.

McIntyre, D.H., and S.W. Hobbs, 1987, Geologic map

Mapel, W.J., W.H. Read, and R.K. Smith, 1965,

Wilson, A.B., S.U. Janecke, Betty Skipp, M.D. Kleinkopf, A.E. McCafferty, H.N. Barton, and M.S. Miller, 1990, Mineral resources of the Borah Peak Wilderness Study Area, Custer County, Idaho: U.S. Geological Survey Bulletin 1718-E, 15 p.

Field mapping by Wilson, Eric, and P.K. Link, 1990. Photogeology by S.U. Janecke.

Assisted by D. Holmes, E. Geiger, M. Barrett, J. Evans, J. Holloway, and R. Griffin

Cartography by Susan A. Wyman and Daryle R. Faircloth

Idaho Geological Survey

Reviewed by Margaret D. Jenks

on a computer-aided cartographic system at the