CORRELATION OF MAP UNITS

Map units	Epoch	Period
Qs	Holocene and Pleistocene	QUATERNARY
QTs, QTb	Pleistocene, Pliocene and Miocene	QUATERNARY
Tsv	Pliocene and Miocene	TERTIARY
TKi	Miocene and Cretaceous	CRETACEOUS
pK		PRE-CRETACEOUS

DESCRIPTION OF MAP UNITS

Qs QUATERNARY SEDIMENTARY ROCKS—Chiefly unconsolidated deposits of clay, silt, sand, and gravel, primarily of fluvial, lacustrine, and glacial origins

QTs QUATERNARY AND TERTIARY SEDIMENTARY ROCKS—Poorly to well-sorted fluvial and lacustrine deposits ranging from clay to coarse gravel with intercalated basaltic lava flows and ash. Include Idaho Group and Payette Formation in Idaho and tuffaceous sedimentary rocks in northern Nevada

QTb QUATERNARY AND TERTIARY BASALT—Chiefly plateau and canyon filling olivine basalt flows in places, intercalated with clastic sedimentary rocks. Includes basalts of the Bruneau Formation and Banbury Basalt in Idaho and Banbury Basalt in northern Nevada

Tsv TERTIARY SILICIC VOLCANIC ROCKS—Rhyolitic, latitic, and andesitic rocks, massive and dense, with jointing ranging from platy to columnar; include Idavada Volcanics in Idaho and northern Nevada

TKi TERTIARY AND CRETACEOUS INTRUSIVE ROCKS—Intrusive granitic rocks of comparable age and composition to the Idaho batholith

pK PRE-CRETACEOUS SEDIMENTARY AND METAMORPHIC ROCKS—Undifferentiated clastic and nonclastic sedimentary and metamorphic rocks

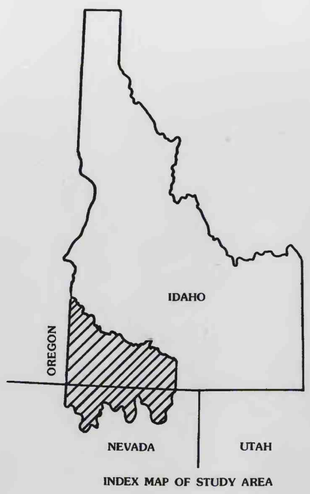
CONTACT

KNOWN FAULT—Bar and ball on downthrown side

INFERRED OR CONCEALED FAULT

DRAINAGE BOUNDARY

APPROXIMATE BOUNDARY OF CONCEPTUAL MODEL



INDEX MAP OF STUDY AREA

Boundary of Bruneau–Grand View area

Castle Creek Known Geothermal Resources Area

Bruneau Known Geothermal Resources Area

Approximate boundary of Duck Valley Indian Reservation

Base from U.S. Geological Survey 1:500,000 scale map

0 10 20 30 40 50 MILES
0 10 20 30 40 50 60 70 80 KILOMETERS

1982 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 16°00′ FOR THE SOUTHEASTERN EDGE TO 17°30′ FOR THE NORTHWESTERN EDGE. MEAN ANNUAL CHANGE IS 0°06′ WESTERLY

Idaho geology modified from Bond, 1978. Nevada geology modified from Steward and Carlson, 1978. Structure in southwestern Idaho from Ekren, McIntyre, and Bennett, 1978

GENERALIZED GEOLOGY OF SOUTHWESTERN IDAHO AND NORTH-CENTRAL NEVADA