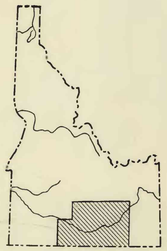
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER-SUPPLY PAPER 1475
PLATE 29



INDEX MAP OF IDAHO

GENERALIZED GEOLOGIC MAP OF SOUTHEASTERN IDAHO SHOWING LOCATION OF WELLS AND PROPOSED SITES FOR EXPLORATORY DRILLING

SCALE 1:500 000

10 0 10 20 30 MILES

Base map from Topographic Division
U.S. Geological Survey, 1928

Geology from geologic map of Idaho compiled
by Clyde P. Ross and J. Donald Forrester

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—62052

EXPLANATION

STRATIFIED ROCKS

Qal — Alluvial deposits
Unconsolidated and poorly consolidated sand, silt, and gravel, mainly in flood plains, fans; landslide deposits included locally. Wind-blown deposits included where bedrock is masked. Locally contain unconfined ground water

Ql — Late lake sediments
Chiefly silt

QUATERNARY

Qsf / Qs — Snake River group
Qs, chiefly basaltic flows. Closely allied rocks included locally.
Qsf, distinctly recent flows distinguished where possible. Yields large quantities of unconfined ground water to wells

QTi — Idaho group
Sandstone, sand, silt, clay and ash. Contains artesian water

Pliocene(?)

Tsv — Silicic volcanic rocks associated with the Snake River group
Welded tuffs and latite; ash, silt, sand, and gravel flows. Yield moderate amounts of water to stock wells

Pliocene

Tsl — Salt Lake formation and associated strata
Rather poorly consolidated sand, silt, and gravel of lacustrine and fluviatile origin, including fan deposits. Includes minor quantities of rhyolitic flows, welded tuffs, basalts. Some of the sediments are tuffaceous, and freshwater limestone is present locally. Yields small amounts of water to stock wells

Eocene(?), Oligocene and Miocene(?)

Tcv / Tcg — Challis volcanics and associated rocks
Tcv, includes Challis volcanics, Kamiah volcanics of Anderson (1930), and other rocks, mostly near the Snake River Plain, that are similar in composition and apparent stratigraphic position to these formations. Mostly of intermediate composition, but some rhyolite and basalt are included.
Tcg, Germer tuffaceous member of Challis volcanics and related strata, moderately consolidated tuff, and sediments with variable tuff content are shown only in areas mapped in comparative detail; elsewhere grouped with Challis volcanics. Water-bearing characteristics not known

TERTIARY

Mu — Rocks undifferentiated
Largely marine sandstone, limestone, shale. Locally associated with volcanic strata. Water-bearing characteristics not known

MESOZOIC

Pu — Rocks undifferentiated
Limestone, quartzite, sandstone, dolomite, Ordovician shale. Yield water to several small springs; not a good aquifer except locally where fractured

PALEOZOIC

pCu — Rocks undifferentiated
Mostly quartzite, include marble, schist, and gneiss. Yield very little water to wells

PRECAMBRIAN(?)

INTRUSIVE ROCKS

Tg — Granitic rock
Largely granite, but includes some masses of other composition

TERTIARY

Ki — Idaho batholith and broadly related stocks
Largely quartz monzonite, but includes granodiorite, quartz diorite, and granite. There may be a considerable range in age among the rocks here grouped together. Yield water to a few small springs

CRETACEOUS(?)

Contact
Dashed where approximately located

Fault
Dashed where approximately located; dotted where concealed; U, *upthrown side;* D, *downthrown side*

Proposed well site

Well completed on basis of this report

Dry hole

Well

Spring