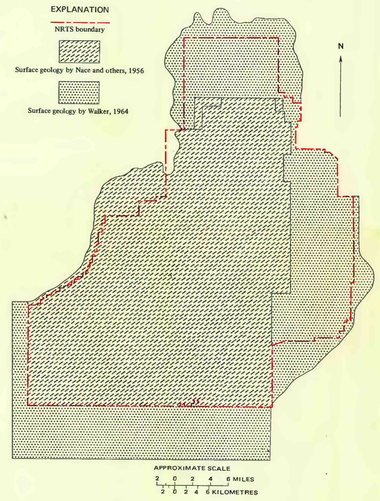
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with
THE UNITED STATES ATOMIC ENERGY COMMISSION

PROFESSIONAL PAPER 725-B
PLATE 1



SURFACE GEOLOGIC MAPPING ON THE NATIONAL REACTOR TESTING STATION, IDAHO

EXPLANATION

SEDIMENTARY ROCKS

- Qwb — Windblown deposits: *Fine sand and silt*
- Qp — Playa deposits: *Sand and silt*
- Qst — Slope wash: *Talus around Twin Buttes*
- Qal — Alluvial gravel, sand, and silt
- Qaf — Alluvial-fan deposits: *Gravel, sand, and silt*
- Qlb, Qt — Lake beds, Qtr; associated beach and bar deposits, Qrib: *Sand and silt*
- Cls — Sedimentary deposits: *Chiefly limestone*

IGNEOUS ROCKS

- Qb — Basalt: *Fresh-appearing basalt, chiefly black*
- Qub — Undifferentiated basalt: *Lower and upper Pleistocene flows and associated sediments; locally may include lower Holocene flows*
- Tb — Basalt: *Blocky black to brown generally dense basalt*
- Tr — Silicic volcanic rocks: *Chiefly welded tuff; includes some ash beds and some minor local flow rocks*

Holocene / Pleistocene — QUATERNARY
CARBONIFEROUS
Pliocene or Miocene — TERTIARY
Miocene(?)

Contact
Strike and dip of beds
Temporary discharge-measuring station on Big Lost River
Upper number is report number assigned to station, Lower number is river miles below initial point, Station 1, which is the permanent gaging station, Big Lost River below Arco
Station where cross section of river channel was measured
Number is river miles below initial point
CONE — Volcanic cone
CRATER — Volcanic crater
Hard-surface oiled road
Telephone and telegraph line
Power transmission line
Canal
National Reactor Testing Station boundary

Topography and rectangular engineering grid base from maps of U.S. Atomic Energy Commission, Rectangular land subdivision from township plats of U.S. Bureau of Land Management
Engineering grid system based on Idaho State Coordinate System, Transverse Mercator East and Central Zone

APPROXIMATE MEAN DECLINATION, 1975

SCALE 1:48 000
1 ½ 0 1 2 3 MILES
1 .5 0 1 2 3 4 5 KILOMETRES
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

Geology after unpublished mapping of N. B. Crow, Morris Deutsch, J. R. Jones, S. L. Jones, P. T. Kinnison, R. L. Nace, A. E. Peckham, R. W. Rex, R. O. Smith, and P. T. Vorgell, 1956

GEOLOGIC MAP OF THE NATIONAL REACTOR TESTING STATION, IDAHO

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