



EXPLANATION

Quaternary

- Q_u Flood-plain deposits
Unconsolidated deposits of sand, gravel, and clay. Comprise and underlie Recent flood plains of Smith River and other major streams. Q_u consists of flood-plain deposits in channels of Smith River and Hoodby Creek; permeable but not tapped by wells. Q_u flood-plain deposits undifferentiated; most permeable; yield moderate to large quantities of water readily to wells.
- Q_d Dune sand
Active dunes and older dune sand near the coast. Yields moderate quantities of water to wells.
- Q_l Landslide
- Q_{af} Alluvial-fan deposits
Weathered debris from Jurassic rocks. Angular arkose sand in a sandy clay matrix. Locally yields water sufficient for domestic use.

Pleistocene

- Q_t Terrace deposits
Unconsolidated sand, clay, and gravel forming discontinuous terraces along Smith River and Hoodby Creek. Yield water readily to wells, except locally.
- Q_b Battery formation
Compact marine-terrace deposits of fine sand and clay. Principal aquifer in area. Yields small to moderate supplies of water to wells.

Tertiary

- T₃ St. George formation
Consolidated marine sand, silt, and claystone. Locally highly fossiliferous. Probably bay or lagoonal deposits. Does not yield water to wells.
- J_{ub} Ultrabasic rocks
Intrusives of serpentine and peridotite. Yields little water.
- J_s Schist
Slightly metamorphosed sediments, largely phyllites and semischists bordering ultrabasics on west. Yields little water.
- J_u Undifferentiated rocks
Principally arkose sandstone, with some shale and minor amounts of chert, conglomerate, and greenstone. Yields little water.

Geological Symbols

- Contact: Dashed where approximately located; Solid for contact of schist and ultrabasic intrusives modified after Salem Rice and Francis G. Wells.
- Strike and dip of beds: $\frac{21}{\text{N}}$
- Domestic, public supply, or industrial well: \odot
- Irrigation well: \bullet
- Test hole: \circ
- Abandoned well: \oplus
- Well numbering system described in text: B1 L2 N3
- Location of seismic probe: $\frac{2}{\text{N}}$

R. 2 W. Base from parts of U. S. Geological Survey maps of Crescent City and Klamath quadrangles

GEOLOGIC MAP AND SECTIONS OF THE SMITH RIVER PLAIN AREA, SHOWING LOCATIONS OF SELECTED WELLS AND WATER-LEVEL PROFILES OF 1953, NORTHWESTERN DEL NORTE COUNTY, CALIFORNIA

Scale 1:62,500

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