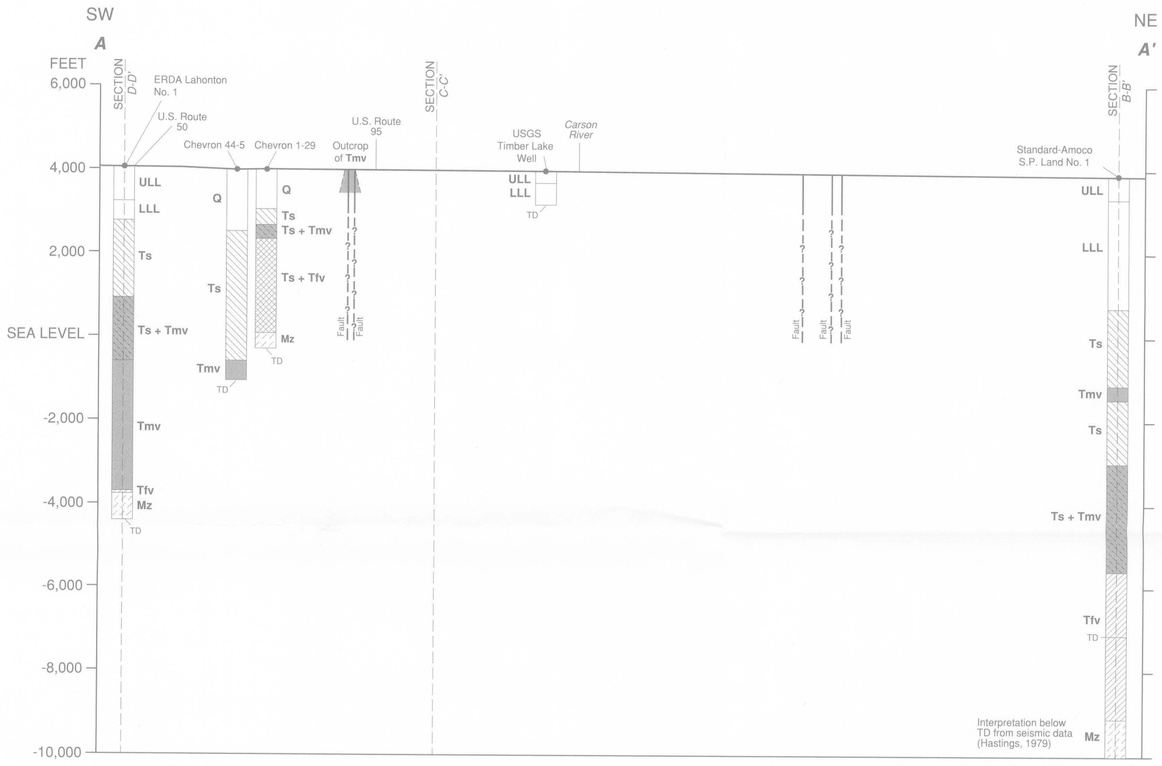

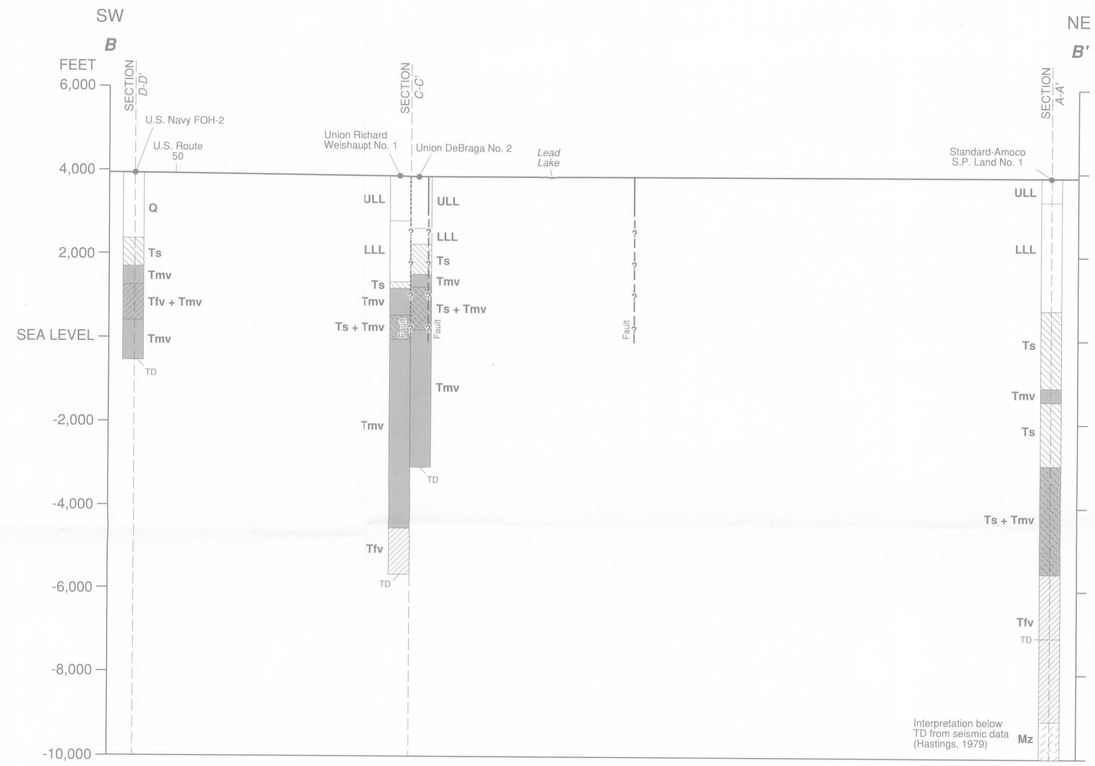

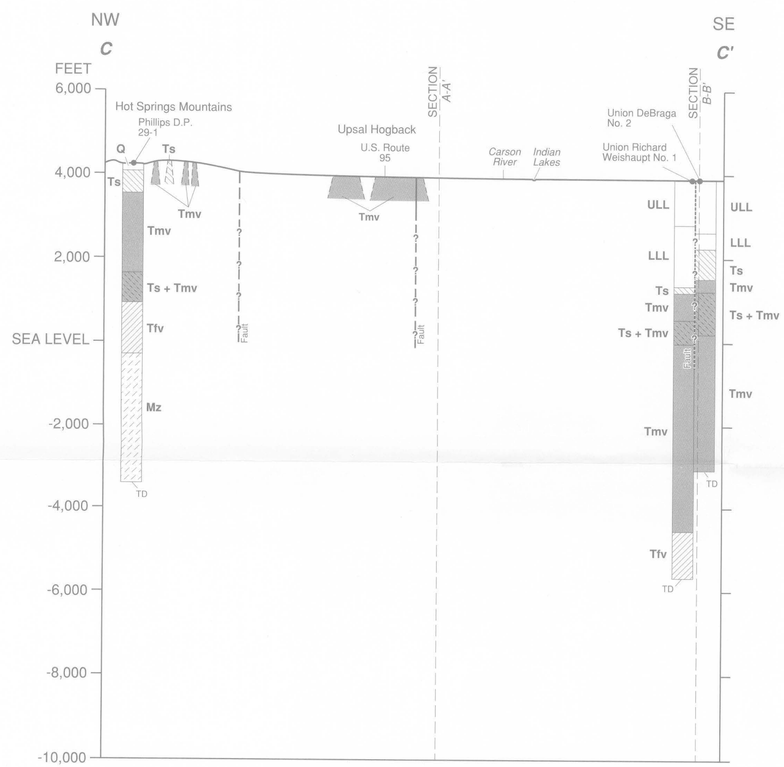

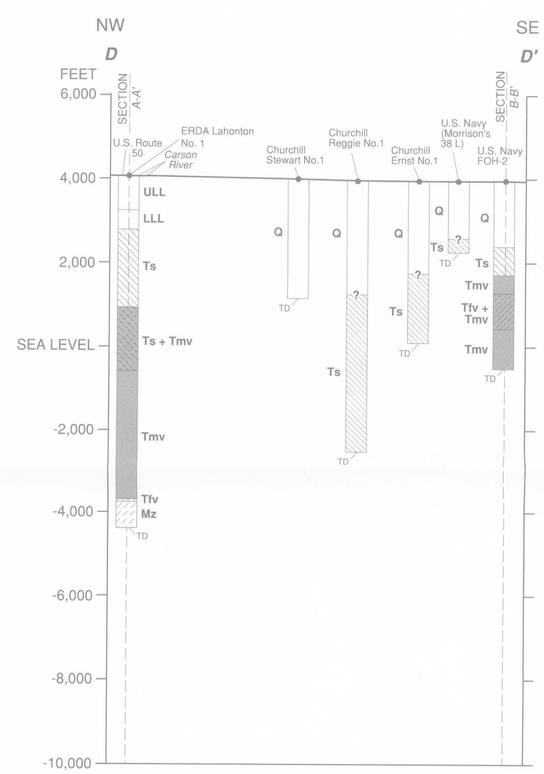

EXPLANATION

(Traces of geologic sections are shown on Plate 1)

Unit of Quaternary age

Sediments (Q) — Maximum thickness exceeds 3,000 feet. Includes sediments of upper Lake Lahontan age (ULL) and lower Lake Lahontan age (LLL)

Units of Tertiary age

Sedimentary rocks (Ts) — Maximum thickness exceeds 3,500 feet

Mafic volcanic rocks (Tmv) — Maximum thickness exceeds 3,200 feet

Sedimentary rocks and mafic volcanic rocks, undivided (Ts + Tmv) — Maximum thickness exceeds 6,500 feet

Felsic volcanic rocks (Tfv) — Maximum thickness exceeds 3,500 feet

Felsic and mafic volcanic rocks, undivided (Tfv + Tmv) — Maximum thickness exceeds 5,300 feet

Sedimentary rocks and felsic volcanic rocks, undivided (Ts + Tfv) — Maximum thickness exceeds 2,250 feet

Unit of Mesozoic age

Igneous rocks (Mz) — Maximum thickness exceeds 3,200 feet

USGS Timber Lake Well
ULL
LLL
TD

Name of drillhole, collar location, lithologic log — TD, total depth. Drillhole data modified from Benoit and others (1982, p. 15-18); Chevron Resources Company (1979a, 1979b); Gale (1913, p. 303-311); Horton (1978, p. 14-36); Katzenstein and Bjornstad (1987, p. 11-12, 43-53); Melhorn ([1974?], p. 9-11); Morrison (1959, p. 205-206); Nevada Bureau of Mines and Geology (written commun., 1992); Sibbett (1979, appendix); Sibbett and Blackett (1982, appendix); Union 76 Geothermal Division ([1979?], chapter 2); and Union Oil Company of California (1981, p. 37-45). Top of Mesozoic section in Standard-Amoco SP Land No. 1 well is below bottom of well, and is estimated on basis of geophysical data (Hastings, 1979, fig. 2)

Outcrop — Subsurface extent and orientation of contacts are unknown

Fault

Fault mapped at land surface or intercepted by drilling — Dashed and queried where concealed or uncertain (J.H. Stewart, written commun., 1987). Dotted where inferred by authors (not shown on Plate 1). Dip of fault plane unknown. May also be confirmed by geophysical measurements (Hastings, 1979, fig. 2; Union 76 Geothermal Division ([1979?] p. 2-3); Bell, 1984; and Greene and others, 1991)

Abbreviations: USGS, U.S. Geological Survey; ERDA, U.S. Energy Research and Development Administration

MILES
5 0 5 10
5 0 5 10
KILOMETERS

VERTICAL EXAGGERATION X10

Surficial geology generalized from John H. Stewart (U.S. Geological Survey, written commun., 1987) and, in Upsal Hogback and Soda Lake areas, modified from Morrison (1964)

GEOLOGIC SECTIONS ACROSS CARSON DESERT, CHURCHILL COUNTY, NEVADA

By
Douglas K. Maurer, Ann K. Johnson, and Alan H. Welch

1996