UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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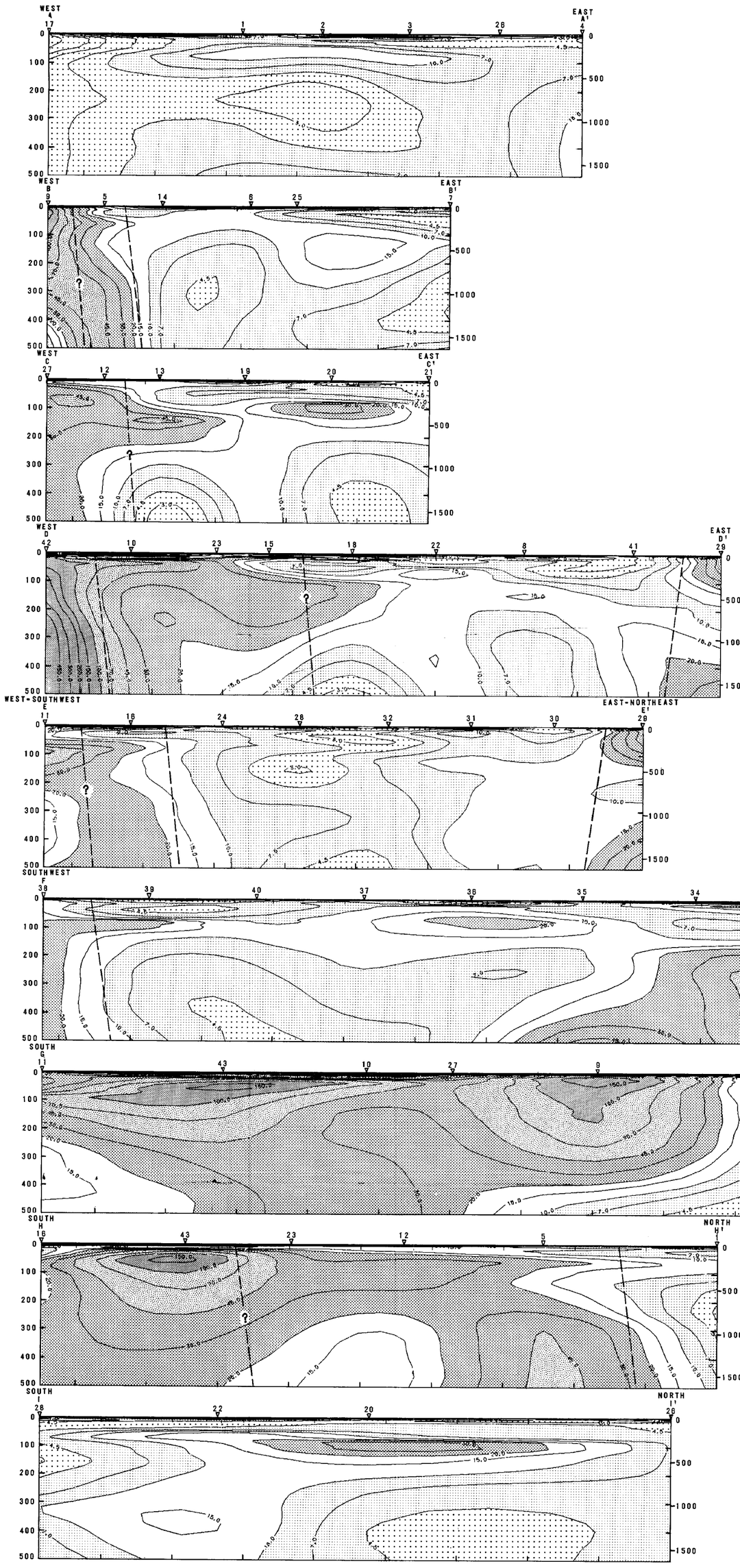
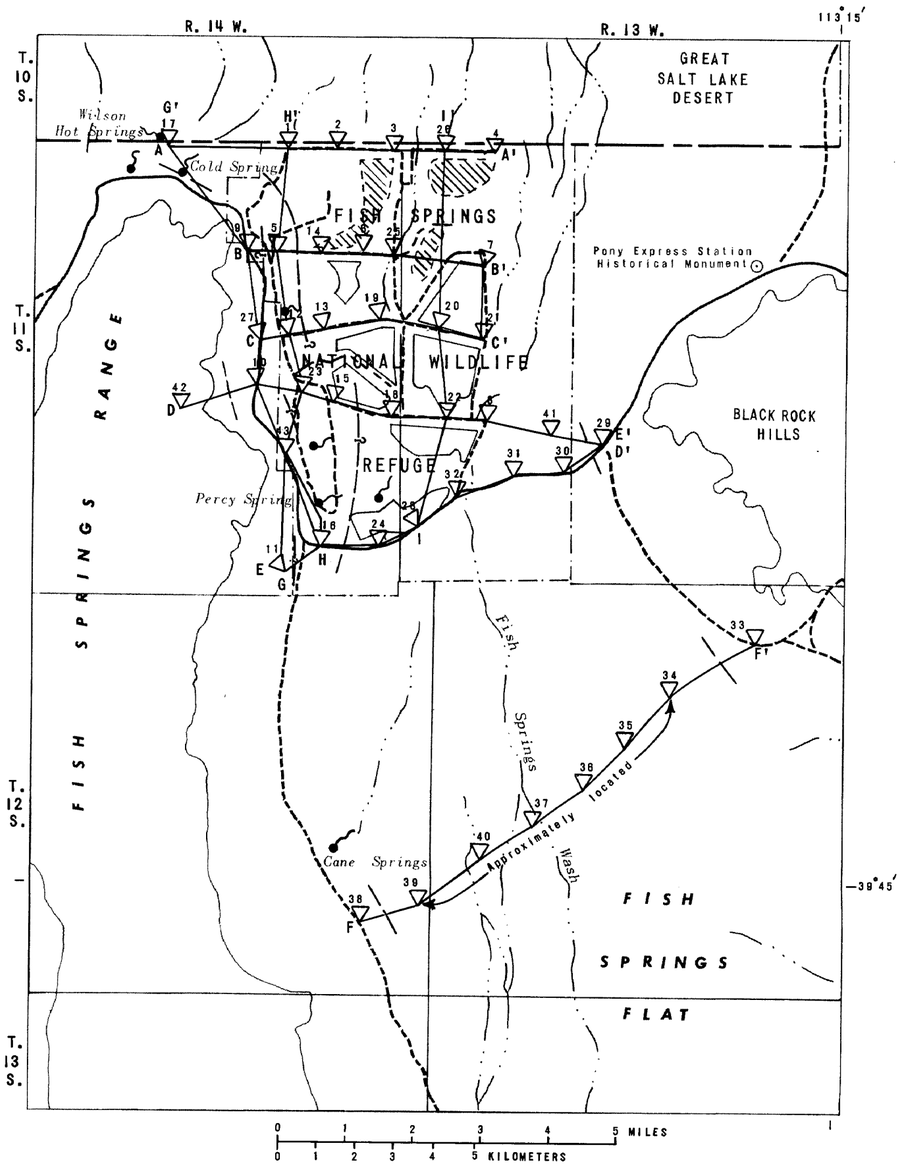
PLATE 4



VERTICAL EXAGGERATION 4:1



EXPLANATION

Fault inferred from resistivity data; approximate location. Query (?) indicates inference uncertain

Location of vertical electrical sounding
Number is sounding number

Location of computer-drawn resistivity section

GENERALIZED CORRELATION BETWEEN RESISTIVITY AND LITHOLOGY

Because of a lack of data on the resistivity of lithologic units in Fish Springs Flat, this classification is largely inferred and is intended only as a general guide. The classification may not apply or may apply poorly at specific sounding locations

More than 100 ohm-meters	Consolidated sedimentary rocks (mostly limestone and dolomite with some quartzite, sandstone, and shale) with low porosity, unsaturated or containing fresh water; or extrusive volcanic rocks. May include some coarse-grained alluvium, unsaturated
45-100 ohm-meters	Consolidated sedimentary or volcanic rocks containing fresh to saline water. May include some coarse alluvium, unsaturated or containing fresh water
20-45 ohm-meters	Consolidated sedimentary rocks containing saline water; volcanic rocks containing fresh to saline water; or alluvium, mostly coarse grained, containing fresh water
10-20 ohm-meters	Volcanic rocks containing saline water, coarse alluvium containing fresh to moderately saline water, or predominantly fine-grained alluvium containing fresh water in coarser beds. May include some consolidated sedimentary rock with saline water
4.5-10 ohm-meters	Alluvium or volcanic rocks, including tuff, containing saline water
Less than 4.5 ohm-meters	Fine-grained alluvium (mostly lacustrine clays) or altered tuff containing saline water

Sounding location and number
Resistivity not shown for approximately the uppermost 30 feet (10 meters) of each section because variations could not be portrayed at this scale

Fault inferred from resistivity data and approximately located between soundings. Query (?) indicates inference uncertain

Contour of resistivity, in ohm-meters, interpolated and plotted by computer

Resistivity data collected and computer sections prepared by R.J. Bisdorf; resistivity, lithology, correlations and faults inferred by J.S. Gates, 1980

MAP AND SECTIONS, NORTHERN FISH SPRINGS FLAT, SHOWING RESISTIVITY DETERMINED BY ELECTRICAL SOUNDING AND INFERRED FAULTS