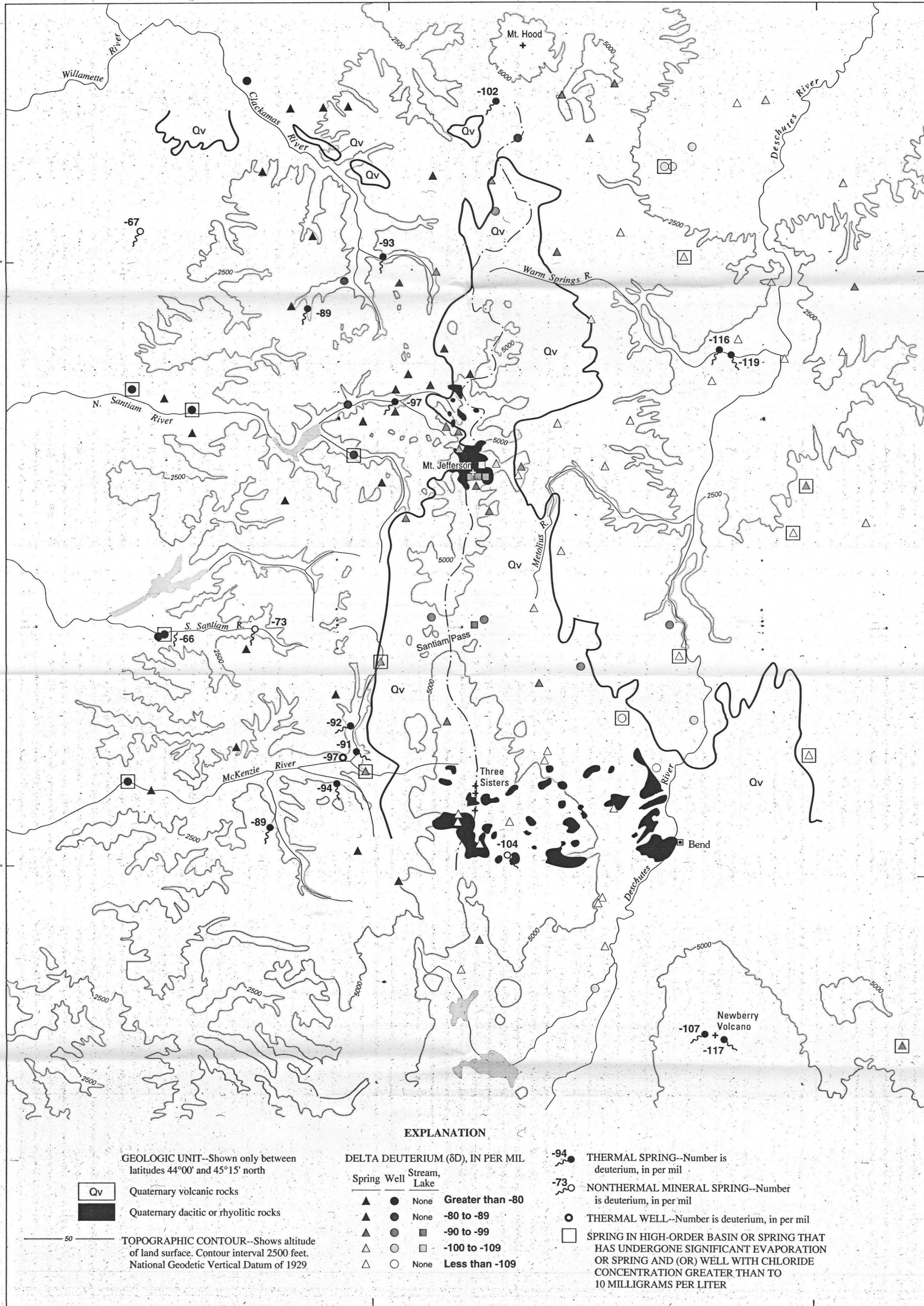
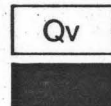


**GENERALIZED MAP OF THE CASCADE RANGE,
NORTH-CENTRAL OREGON, SHOWING DEUTERIUM DATA**



EXPLANATION

GEOLOGIC UNIT--Shown only between latitudes 44°00' and 45°15' north



Quaternary volcanic rocks

Quaternary dacitic or rhyolitic rocks

TOPOGRAPHIC CONTOUR--Shows altitude of land surface. Contour interval 2500 feet. National Geodetic Vertical Datum of 1929

DELTA DEUTERIUM (δD), IN PER MIL

Spring	Well	Stream, Lake	None	Greater than -80
▲	●	■	None	-80 to -89
▲	●	■	None	-90 to -99
▲	●	■	None	-100 to -109
▲	●	○	None	Less than -109

-94 THERMAL SPRING--Number is deuterium, in per mil

-73 NONTHERMAL MINERAL SPRING--Number is deuterium, in per mil

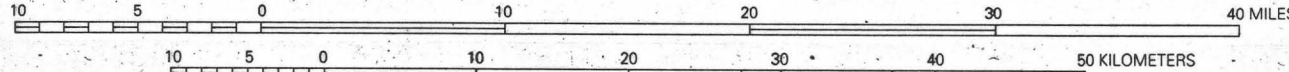
○ THERMAL WELL--Number is deuterium, in per mil

□ SPRING IN HIGH-ORDER BASIN OR SPRING THAT HAS UNDERGONE SIGNIFICANT EVAPORATION OR SPRING AND (OR) WELL WITH CHLORIDE CONCENTRATION GREATER THAN TO 10 MILLIGRAMS PER LITER

Base from U.S. Geologic Survey State base map, 1982

Scale 1:500,000

1 inch equals approximately 8 miles



CONTOUR INTERVAL 500 FEET
DATUM IS MEAN SEA LEVEL