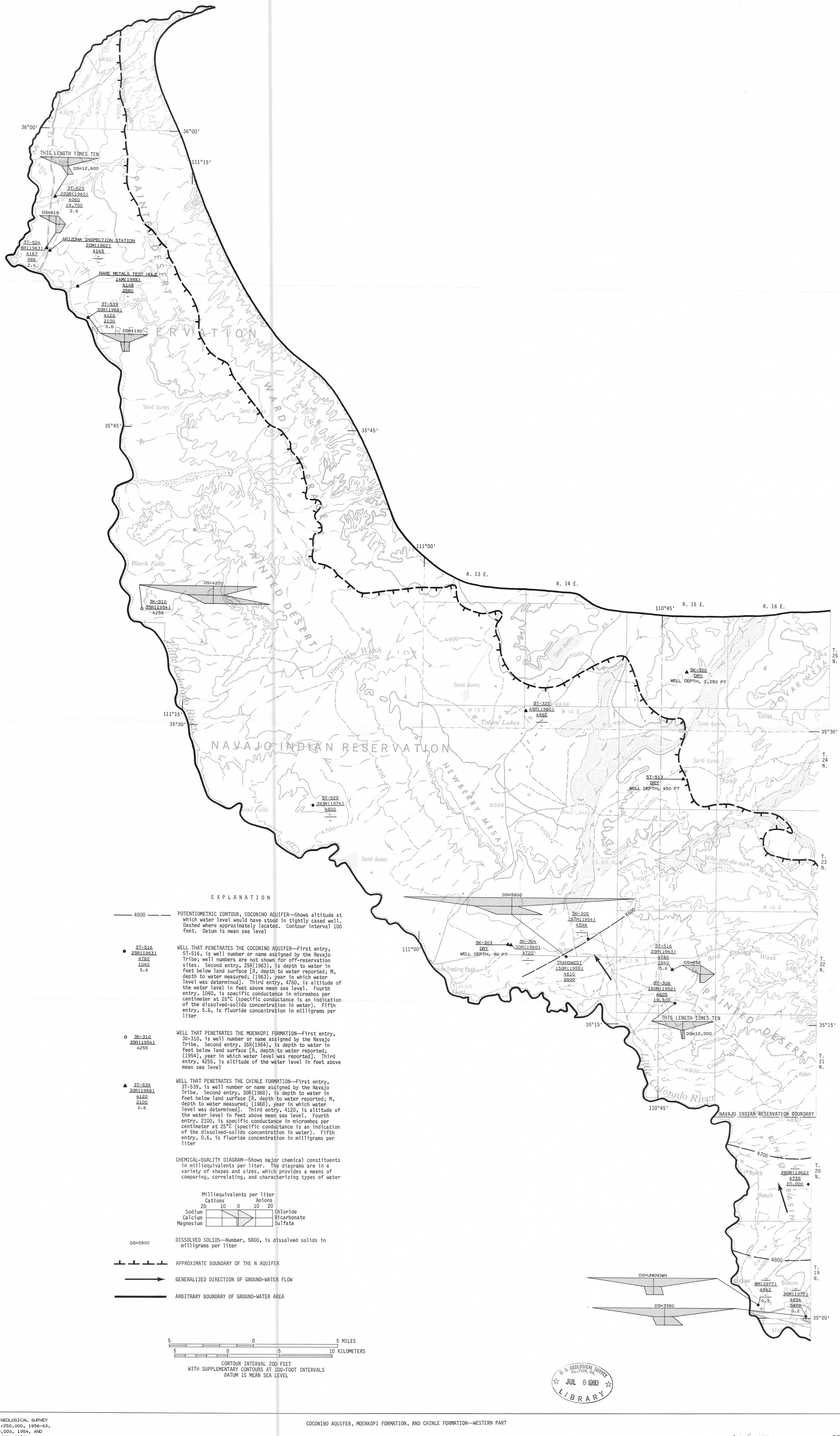

EXPLANATION

4800 — POTENTIOMETRIC CONTOUR, COCONINO AQUIFER—Shows altitude at which water level would have stood in tightly cased well. Dashed where approximately located. Contour interval 100 feet. Datum is mean sea level

● 5T-516 / 25R(1963) / 4780 / 1040 / 5.6 — WELL THAT PENETRATES THE COCONINO AQUIFER—First entry, 5T-516, is well number or name assigned by the Navajo Tribe; well numbers are not shown for off-reservation sites. Second entry, 25R(1963), is depth to water in feet below land surface [R, depth to water reported; M, depth to water measured; (1963), year in which water level was determined]. Third entry, 4780, is altitude of the water level in feet above mean sea level. Fourth entry, 1040, is specific conductance in micromhos per centimeter at 25°C (specific conductance is an indication of the dissolved-solids concentration in water). Fifth entry, 5.6, is fluoride concentration in milligrams per liter

○ 3K-310 / 35R(1954) / 4255 — WELL THAT PENETRATES THE MOENKOPI FORMATION—First entry, 3K-310, is well number or name assigned by the Navajo Tribe. Second entry, 35R(1954), is depth to water in feet below land surface [R, depth to water reported; (1954), year in which water level was reported]. Third entry, 4255, is altitude of the water level in feet above mean sea level

▲ 3T-539 / 30R(1968) / 4120 / 2100 / 0.6 — WELL THAT PENETRATES THE CHINLE FORMATION—First entry, 3T-539, is well number or name assigned by the Navajo Tribe. Second entry, 30R(1968), is depth to water in feet below land surface [R, depth to water reported; M, depth to water measured; (1968), year in which water level was determined]. Third entry, 4120, is altitude of the water level in feet above mean sea level. Fourth entry, 2100, is specific conductance in micromhos per centimeter at 25°C (specific conductance is an indication of the dissolved-solids concentration in water). Fifth entry, 0.6, is fluoride concentration in milligrams per liter

CHEMICAL-QUALITY DIAGRAM—Shows major chemical constituents in milliequivalents per liter. The diagrams are in a variety of shapes and sizes, which provides a means of comparing, correlating, and characterizing types of water

DS=5800 — DISSOLVED SOLIDS—Number, 5800, is dissolved solids in milligrams per liter

APPROXIMATE BOUNDARY OF THE N AQUIFER

GENERALIZED DIRECTION OF GROUND-WATER FLOW

ARBITRARY BOUNDARY OF GROUND-WATER AREA

5 0 5 MILES
5 0 5 10 KILOMETERS

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100-FOOT INTERVALS
DATUM IS MEAN SEA LEVEL

U. S. GEOLOGICAL SURVEY
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BASE FROM U.S. GEOLOGICAL SURVEY
MARBLE CANYON 1:250,000, 1956-63,
FLAGSTAFF 1:250,000, 1954, AND
HOLBROOK 1:250,000, 1954

MAPS SHOWING GROUND-WATER CONDITIONS IN THE HOPI AREA, COCONINO AND NAVAJO COUNTIES, ARIZONA—1977

BY
C. D. FARRAR

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