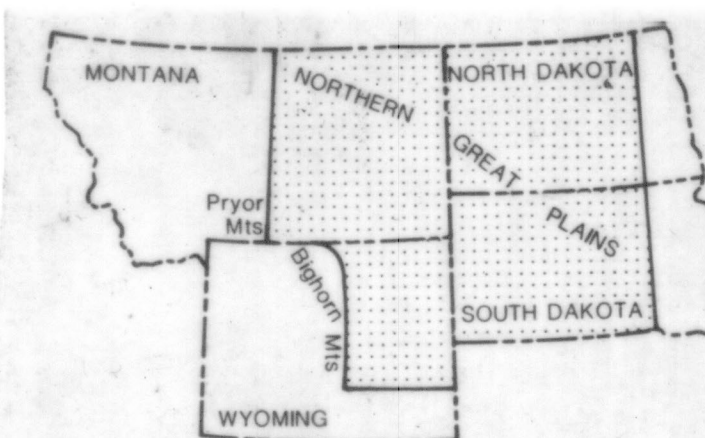


Base from U.S. Geological
Survey State base maps,
Montana, North Dakota,
South Dakota, and
Wyoming 1:500,000

0 50 100 MILES
0 50 100 KILOMETERS

Modified from Miller and
Strausz, 1980
[Hydrology mapped in 1978.
Geologic contacts modified
from Darton (1951), Love
and others (1955). Subsurface
extent modified from Rocky
Mountain Association of
Geologists (1972) and D.L. Brown,
USGS, written commun., 1979]



MAP SHOWING LOCATION OF STUDY AREA

EXPLANATION

- AREA WHERE MISSISSIPPIAN MADISON GROUP OR EQUIVALENT ROCKS CROP OUT
- CONTACT--Dashed where approximately located. Queried where doubtful
- FAULT--Dashed where approximately located
- AREA WHERE MADISON GROUP OR EQUIVALENT ROCKS ARE ABSENT
- SUBSURFACE LIMIT OF MISSION CANYON LIMESTONE OR EQUIVALENT ROCKS
- GENERALIZED FRESHWATER-HEAD CONTOUR--Shows altitude at which water level would have stood in tightly cased wells penetrating the Mission Canyon and Lodgepole Limestones or equivalent rocks of Mississippian age if the water in the well had a density of 1.00 gram per cubic centimeter. Dashed where approximately located. Queried where doubtful. Contour intervals 100, 200, and 500 feet (30.5, 61.0, and 152 meters). National geodetic vertical datum of 1929. Data from drill-stem tests made during 1946-78, water-level measurements in production wells in Wyoming, and altitudes of springs
- DATA SITE
 - Drill-stem test or production well used in contouring
 - Drill-stem test or production well not used in contouring
 - Spring

PRELIMINARY MAP SHOWING FRESHWATER HEADS FOR THE MISSION CANYON AND LODGEPOLE LIMESTONES AND EQUIVALENT ROCKS OF MISSISSIPPIAN AGE IN THE NORTHERN GREAT PLAINS OF MONTANA, NORTH DAKOTA, SOUTH DAKOTA, AND WYOMING