



Mapped by the Geological Survey and the Bureau of Reclamation  
Field examination and publication by the Geological Survey  
as part of the Department of the Interior program  
for the development of the Missouri River Basin

Control by USGS and NOS/NOAA  
Topography from aerial photographs by stereophotogrammetric  
methods 1947 and 1951. Aerial photographs taken 1947  
Field check 1951

Polyconic projection, 1927 North American datum  
10,000-foot grid based on Montana coordinate system,  
central zone  
Dashed land lines indicate approximate locations  
1000-meter Universal Transverse Mercator grid ticks,  
zone 12, shown in blue

Revisions shown in purple compiled  
from aerial photographs taken 1977  
and other source data. This information  
not field checked. Map edited 1980

UTM GRID AND 1980 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL 20 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION

To place on the predicted North American Datum 1983  
move the projection lines 10 meters north and  
61 meters east as shown by dashed corner ticks

ROAD CLASSIFICATION

Heavy-duty 4 LANE 16 LANE Light-duty   
Medium-duty 4 LANE 6 LANE Unimproved dirt   
 U.S. Route State Route

USGS  
HISTORICAL FILE  
NATIONAL MAPPING DIVISION

HAMEN, MONT.  
4615-W11037.5/7.5

1951  
PHOTOREVISED 1980  
DMA 3876 I SW-SERIES V894

SEP 21 1981  
2050