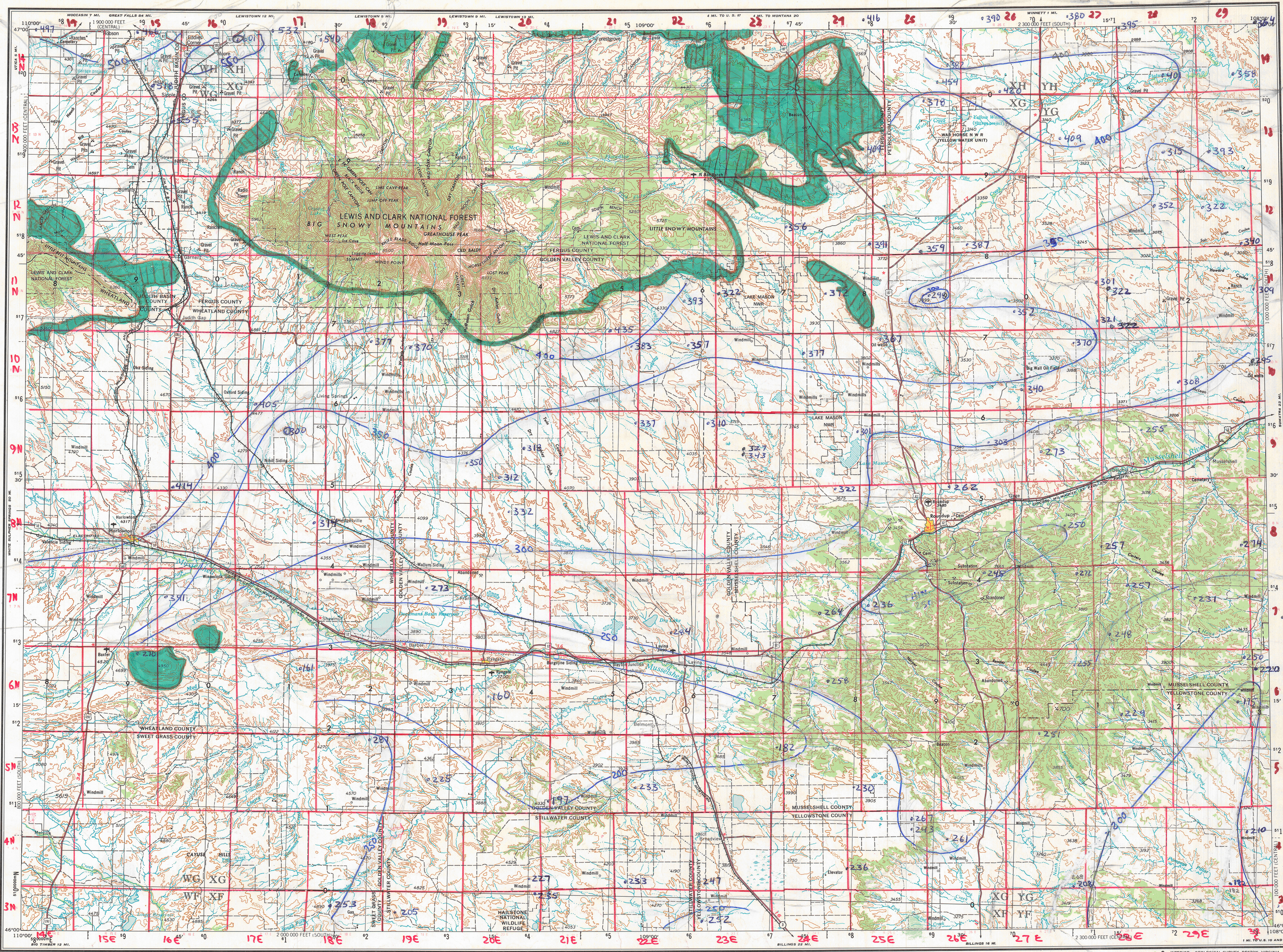


WESTERN UNITED STATES 1:250,000 Kootenai Formation - thickness

ROUNDUP #

NL 12-6



Prepared by the Defense Mapping Agency Topographic Center, Washington, D.C. Compiled in 1955 by photogrammetric methods from aerial photographs taken 1953. Photographs field annotated 1954. Revised in 1977 by the U.S. Geological Survey from aerial photographs taken 1975.
100,000-foot grids based on Montana coordinate system, south and central zones
Location of geodetic control established by government agencies is shown on corresponding 1:250,000-scale Geodetic Control Diagram

Data points from:
Feltis, R.D., Lewis, B.D., Frasure, R.L., Rioux, R.P. Jauhola, C.A. and Hotchkiss, W.R., 1981, Selected Geologic Data from the Northern Great Plains area of Montana: U.S. Geological Survey Water-Resources Investigations Open-file report 81-415, 63 p.,
Contoured by R.N. Bergantino, 1982

LEGEND
Figures in red denote approximate distances in miles between stars

POPULATED PLACES
Over 500,000
100,000 to 500,000
25,000 to 100,000
5,000 to 25,000
1,000 to 5,000
Less than 1,000

ROADS
Primary, all-weather, hard surface
Secondary, all-weather, hard surface
Light-duty, all-weather, hard or improved surface
Fair or dry weather, unimproved surface
Trail
Interchange

RAILROADS
Standard gauge
Single track
Double or multiple track
Narrow gauge
Landing area
Seaplane airport
Dry lake
Woods/brushwood

BOUNDARIES
International
State
County
Park or reservation

Other symbols:
Landmark: School; Church; Other
Spot elevation in feet
Marsh or swamp
Intermittent or dry stream
Power line

Scale 1:250,000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION

BLACK NUMBERED LINES INDICATE THE 10,000-METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 12

1975 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 17° (300 MILES) EASTERLY FOR THE CENTER OF THE WEST EDGE TO 16° (280 MILES) EASTERLY FOR THE CENTER OF THE EAST EDGE

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

LOCATION DIAGRAM

SECTIONIZED TOWNSHIP

GRID ZONE IDENTIFICATION

TO GIVE A STANDARD REFERENCE TO THIS SHEET TO NEAREST 100 METERS

SAMPLE POINT: ELEVATOR

1. Read letters identifying 100,000-meter square in which the point lies
2. Locate first VERTICAL grid line to LEFT of point and read LARGE figure labeling the line either in the top or bottom margin, or on the line itself
3. Estimate tenths from grid line to point: Locate first HORIZONTAL grid line below point and read LARGE figure labeling the line either in the left or right margin, or on the line itself
4. Estimate tenths from grid line to point

SAMPLE REFERENCE:
If reporting beyond 10° in any direction, prefix Grid Zone Designation, 41

ROUNDUP MONTANA
1958
REVISED 1977

Thickness of the Kootenai Formation, feet